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ONTHE

## THEORYAND PRACTICE

## O F <br> M I D. W I F E R Y. <br> to which is now ADDED,

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EXHIBITING

THE VARIOUS CASES THAT OCCUR IN PRACTICE,
accurately engraved, with explanations.

> BY W. S. MELLIE, M.D.

A NEW AND CORRECTED EDITION, IN THREE PARTS。

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## TOTHE

## STUDENTS OF MIDWIFERY,

AND

THE OTHER BRANCHES OF

## MEDICINE AND SURGERY,

(Iubscribers to the Medical Elafsics)
THIS NEW AND CORRECTED EDITION

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DR. SMELLIE'S TREATISE
ONTHE

THEORT AND PRACTIGE OF MIDWIFERT,

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With His
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SET OF ANATOMICAL PLATES,

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WITH THE GREATEST RESPECT,

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by their very humble servants,

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## [ iii ]

## $P$ R E F C E:

IAT firt intended to have publifhed this Treatife in different lectures; as they were delivered in one courfe of midwifery; but I found that method would not anfiver fo well, in a work of this kind, as in teaching; becaufe, in the courfe of my leftures, almoft every obfervation has a reference to the working of thole machines which I have contrived to refemble and reprefent real women and children; and on which all the kinds of different labours are demonfrated, and even performed, by every individual fudent.

I hare, therefore; divided the whole into an Introduction and four Books; diftinguifhed by Chapters, Sections, and Numbers; and have induftrioufly avoided all theory, except fo much as may ferve to whet the, genius of young practitioners, and be as hints to introduce more valuable difcoveries in the art.

The Introduction contains a fummary account of the Practice of Midwifery, both among the ancients and moderns, with the improvements which have been hitherto made in it ; and this I have exhibited for the information of thofe who have not had time or opportunity to perufe the books from which it is collected; that, by feeing at once the whole extent of the art, they may be the more able to judge for themfelves, and regulate their practice by thofe authors who have wtitten molt judicioully upon the fubjeft. The knowledge of thefe things will alfo help to raife a laudable firit of emulation, that never fails to promote ufeful enquiries; which often redound to the honbur of art, as well às to the advantage of fociety.

Though I have endeavoured to treat every thing in the moft diftinet and concife manner, perhaps many directions that occur in the third book may be thought too minute and trivial by thofe who have already had the adtantage of all extenfive practice; but the work being principally undertaken with a view to refrelh the memory of thofe who have attended me; and for the infruction of young practitioners in general, I thought it was neceflary to mention every thing that might be ufeful in the courfe of practice.

At fifft, my defign was to have inferted cafcs, by way of illuftration, according to the method of La Motte; but, upon farther deliberation, I thought fuch a plan would too much embarrafs the fludent in the progrefs of his reading : and therefore I have, in imitation of Mauriceau ; publithed a fecond volume of hiftories digefted intó a certain number of claffes or collections, with proper references to the particular parts of this Treatife; fo that the reader, when he wants to fee the illuftration, may turn over to it at his leifure, according to the directions in this edition, which will demonftrate and explain what otherwife might not te fo well underfood.

The Collections or claffes coufitt of the inot ufeful cafes and obfervations; partly culled from the moft approved authors, but chiefly collected from my own practice, and that of my correfpondents and former pupils, by whons I have been confulted. 'fhey comprehend the variety of methods practifed
in lingering and laborious cafes, which occur much oftener than the preternatural, and are more apt to puzzle and perplex a young practitioner.

In order to render the performance ftill more completc, I have taker, from authors of the bef authority, a fcw extraordinary cafes which feldons occur, as well as borrowed fome medical tranfactions from the moft approved modern phyficians.

From the initances of natural and tedious labours, the young practitioner will learn how to behave in the like occurrences; and, above all things, to beware of being too hafty in offering affiftance, while naturc is of herfelf able to effectuatc the delivery.

Among the laborious cafes, hic will find a variety of examples, by which he will know when it is abfolutely neccffary to ufe the forceps.

The unfucceffful cafes communicated by correfpondents, who defired their names might be concealed, are inferted as fo many beacons to caution others from falling into the fame errors and miftakes in the courfe of practice.

Nor will the reader, I hope, imagine that fuch a fund will be infufficient for the purpofe, or that this Treatife is cooked up in a hurry, when I inform him, that above fix years beforc its publication I began to commit my lefiures to paper; and from time to time altered, amended, and digefted what I had written according to the new lights I received from ftudy and experience. Neither did I pretend to teach midwifery till after I had practifed it fuccefffully for a long time in the country; and the obfervations I now publifh are the fruits not only of that opportunity, but more immediately of my practice in London during ten years, in which I have given upwards of two hundred and eighty courfes of midwifcry, for the inftruction of more than rine hundred pupils, exclufive of female ftudents; and in that feries of courfes one thoufand one hundred and fifty poor women have been delivered in prefence of thofe who attended me (and fupportcd during their lying-in by the flated collections of my pupils) over and above thofe difficult cafes to which we are often called by midwives, for relief of the indigent.

Thefe confiderations, together with that of my own private practicc. which hath been pretty extenfive, will, 1 hope, fcreen me from the imputation of arrogance with regard to the tafk I have undertaken; and I flatter myfelf that the performance will not be unferviceable to mankind.
In this Treatife are introduced copper-plate engravings of the mof ufeful inftuments appertaining to the art of midwifery; together with a variety of figures relating to anatomy and delivery, with explanatory tables; and in this edition proper references have been made to the feveral figures.

## INTRODUCTION.

IT muft be a fatisfaction to thofe who begin the fudy of any art or fcience, to be made acquainted with the rife and progrefs of it ; and therefore, I fhall, by way of introduction, give a fhort detail of the pratice of midwifery, with the improvements which have been made in it at different times, as I have been able to collect the circumftances, from thofe authors, ancient as well as modern, who have written on the fubject.

By thefeaccounts it fecms probable, that in the firft ages the practice of this art was altogether in the hands of women, and that men were nevcr employed but in the utmoft extremity; indeed it is natural to fuppofe, that while the fimplicity of the early ages remaired, women would have recourfe to none but perfons of their own fex in difeafes peculiar to it ; accordingly, we find that in Egypt midwifery was practifed by women.

Hyginus relates, that in Athens a law was made, prohibiting women and flaves from prictifing phyfic in any fhape; but the miftaken mod?fy of the fex rendered it afterwards abfolutely neceffary to allow free women the privilege of tharing the art with the men,
In the Harmonia Gynaciorum, there are extant feveral directions and recipes on the fubject of midwifery, collected from the writings of one Clcupatra, interfeerfed with thofe of Mofchion and Prifcian; and fome people imagine this was no other than the famous Cleopatra, queen of Egypt, becaufe in the preface Arfinoe is mentioned as the author's fifter.

Galen, who lived two hundred years after this Egyptian queen, advifes the reader to confult the writings of one of that name, but does notinform us whether fhe was or was not that celebrated princefs; fo that in all probability it was fome other perfon of the fame name, as the fuidy and exercifc of fuch an art was not at all fuited to the difpofition of fuch a voluptuary as queen Cleopatra is defcribed to have been.
Etius tranfcribes fome chapters from the works of one Afpafia, touching the method of delivering and managing women in natural labours; but gives no account of the place of her refidence, nor of the time in which the wrote. Sevcral other female practitioners are mentioned by different hiftorians, but as none of their writings are cxtant, and the accounts given of them are moftly fabulous and foreign to our purpofe, I fhall forbear to inention them in this place; and referring the curious to Lc Clerc's Hiftory of Phyfic, begin with Hippocrates, the moft ancient writer now extant upon our fubject, who may be ftyled the father of midwifiry, as well as medicine; becaufe all the fucceeding authofs, as fir down as the latter cnd of the fixteenth century, havs copicd from his works the moft material things relating to the difeafes of women and children, as well as to the obfetric art. I fhall therefore give a fuccinct account of his practice; and in my detail of the other authors, only obferve the improvements they have made, and the circumftances in which they have deviated from his method and opinion.

Hippocrates, who practifed medicine in Greece, about 460 years before the Chriftian æra, no doubt availed himfelf of the obfervations of thofe who went before him in the exercife of the fame profeffion. He acquired the higheft reputation by his wife predictions and fuccefffulpractice, and by his uncommon fagacity and experience, greatly improved the healing art.

In his book, De Natura Muliebri, and thofe Dc Mulierum Morbis, he mentions and defcribes feveral difeafes peculiar to the female fex, according to the theory of thofe tires, and prefcribes more medicines for the difeafes of women than for any otlier diftempers.

Many of his remedies, indeed, are very ftrange and uncouth; but a numver of them are ftill accounted excellent in the prefent practice, unlefs his names of them have been miftaken, and mifapplied to other medicines; and although his theory is frequently' odd and erroneous, his diagnortics, prognofics, and method of cure, are often juft and judicious.

In fuppreflions of the menfes, he firt of all orders vomits and purges, then fharp peflaies in form of fuppofitories, compofed of lint or wool, with divers kinds of deobftruent powders, was and oil, to be introduced into the vagina; he likewife prefcribes fumigations, fomentations, and hot baths, together with internal medicines. He obferves, that fuch obftructions produce a pain and feeming weight in the lawer part of the abdomen, extending to the loins and ilia, attended with a vomiting at intervals, and longings: Iike thofe of a pregnant woman," If thefe fymptoms of pain and weight affect the hypochondria, producing fuffocation and pain in the head and neck, the patient is to be relieved by the application of fortid things to, the nofe, with caftor and flea-bane given internally in wine, \&c.

When the menfes flow in too great a quantity, he propofes a contrary method; he advifes her to abftain from bathing and all laxative and diuretic things ; olders aftringent peffaries for the vagina, and cold applications to the lower parts ; prefcribes internally feveral kinds of aftringent medicines, with the peplium, or poppy-feed, and cupping-glafies to he applied to the breafts, When the violence of this difcharge is abated, he propofes purges and vomits; then affes-milk and a nourifhing diet, and various kinds of internal and external medicines,

In a fluor albus, he fays the urine is like that of an afs; the patient labours under a pain in the lower part of the abdomen, loins, and ilia together with a fwelling in the hands and legs; her eyes watè, her complexion becomes wan and yellow, and in walking the is oppreffed with a difficulty of breathing ; in this cafe he prefcribes emetics and cathartics, affes: milk, whey, fomentations, and different kinds of modicines, to deterge and itrengthen the parts affected.

He mentions many complaints, which, in his opinion, proceed from different motions and fituations of the uterus, and propofes a good many medicines for the cure. As to his theory of conception, and his opinions about the birth in the feventh or eighth month of geftation, they were actually efpoufed by all medical writers till the laft century.

In his firt book of the difeafes of women, he treats of difficult labours; obferving, that if a woman is at her full time feized with labour-pains? and cannot after a long time be delivered, the child cither lies acrois, or prefunts with the feet; for when the head prefonts, the cafe is favourable; whereas if the child lics :crofs, a difficult labour enfues, This affertion he illuftrates hy the example of an olive in a narrow-mouthed jar, which cannot be fo eafily extracted by the middle, as when it prefents with one end. He

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likewife fays, that the birth will be difficult when the feet prefent ; in which cafe either mother or child, or both, for the moft part, perifh; nor is the birth without difficulty when the fuetus is dead, apoplectic, or donble. He then procceds to direct us how to relieve the woman of feveral complaints to which the may be fubject after delivery : he defcribes the method of excluding the fortus, and of affiting in dificult labours; if the child prefents fair, and is noteafily delivered, he orders fternutatories to be adminiftered, and the patient to fop her mouth and nofe, that thicy may operate the more effectually; fhe muft alfo be fhaken in this manner: let her be faftened to the bed by a broad band croffing her breaft, her legs being bended to the lower part of the bed, the other end of which murt be elevated by two affiftants, who gently fhake her by intervals, until her pains expel the child ; the parts muft be anointed with fome unctuous medicine, and cautiounly feparated; and care muft be taken that the placenta immediately follows the child. If the foetus lies acrofs, prefenting to the os uteri, whether it be alive or dead, he orders it to be puthed back and turned, fo as that it may prefent with the head in the natural pofition; and in order to effect this purpofe, the woman muft be laid fupine on a bed, with her hips raifed higher than her head. If the child is alive, and prefents with the arm or leg, he advifes us to return them as foon as poffible, and bring down the head, or, if it lie acrofs, prefenting with the fide or hip, the fame methods muft be ufed ; then the woman may be refrefhed by fitting over the fteams of hot water. The child is to be managed in the fame manner when it is dead, and prefents with leg or arm, or both; but if the fuetus cannot be conveniently delivered on account of the body's being fwollen, he directs us to bring it away piece-meal, in the following manner: if the hcad prefents, let it be opened with a fmall knife; and the bones of the fkull being broken, muft be extracted with a pair of forceps, for fear of harting the woman ; or by an embryulcus, firmly fixed on the clavicles, it may be extracted by little and little. After the head is delivered in this manner, fhould the child flick at the fhoulders, he directs us to divide the arms at the articulations; and they being brought away, the rett of the body generally follows with eafe; but if it will not yet give way, the whole breaft mult be divided, and great care taken that no part of the inteftines be denudated or wounded, lelt the guts, or their contents, falling out, hould retard the óperation; then the ribs being broken, and the fcapulæ extracted, the reft of the foctus will eafily follow, unlefs tiee abdomen is fwollen; in which cafe, the belly muft be punctured, and on the exit of the flatus, the child will be brought along. "If part of the child is already delivered, and the reft will not follow, nor can that which is out be returned, he orders the operator to take away as much as he can of it, and puhing up the remainder, turn the head downwards; but, previous to this operation, he advifes him to pare his nails, and to ufe a crooked knife, the point and back of which muft be covered with the fore-finger at its introduction, left it fhould hurt the uterus.
In his book De Superfeetatione, he direets us, when the child's hcad appears without the os uteri, and the reft of the body does not follow, the foctus being dead, to wet our fingers with water, and introducing them between the os utcri and head, put one into the mouth, and laying hold of it bring it along. When the body is delivered, and the head remains behind (in thofe cafes when the child comes by the feet) he advifcs the operator to dip both his hands in water, and introducing then between the os uteri and head of the child, grafp this lait with the fingers, and extraf it. If the head is
in the vagina, it may be delivered in the fane manner. When the child remains dead in the utcrus, and cannot be delivered cither by the force of nature or medicines, he directs us to introduce the hand, anointed with fome unctuous cerate, and dividing the parts with an unguis fixed on the great finger, bring the foetus along, as hefore.

In the firt book of the Difeafes of Women, he gives directions for exclading the fecundines, provided they are not expelied in the natural way. He fays, if the fecundines come not away inmediately after the birth, the woman labours undera pain in her belly and fide, attended with rigours and a fever, which sanifh when they are difth rged; though for the mon part the after-birth futreties and conics away about the fixth or feventh day, and fometimes later. In this cafe, he arders the patient to hold her breath; and preferibes intemally, mugwort, Cectan dittany, flowers of white violets, leaves ofagraz callus, with garlic boiled or toafted, fmall onions, caftor, fyikenard, rue, and black winc.

In the book De Superfctationc, after having defribed the methods of deiivcring a ceat child, he fays, if the fecundines come not away eafly, the child muit be lef: hanging to them, and the woman feated on a high ftool, that the fortus by its weight may pull them along; and left this frould be too fuddenly effecicd, the child may be laid on wool newly plucked, or on two bladders illed with water, and covercd with wool, which being prieked, as the watcr evacuates they wiil fubfide, and the child finking gradually, will gently draw the focundincs away; but fhould the navel-1tring happen to be broken, proper weights muft be tied to it, in order to anfwer the íame purpefe; thele being the eafieft and leaft hurtful methods of extracting the placenta.

He afterwards obferves, that if the woman has had a difficult Iabour, and could not be delivered without the heip of machincs, the child is generally wak, and therefore the navel-ftring ought not to be divided until it fhall have either urined, fineezed, or cricd aloud; in the mean time, it muft be kert very near the mother: for though the child does not feem to breathe at firf, noi to give any other figns of life, the navel-Atring, by remaining uncut, may be in a little time infated, and the life of the infant farcd.

With regard to the lochia or menfes after delivery, he takes notice, that if they are aitogether fupprcfied, or the difcharge infuficient, and the uterus, is indurated, the patient is aflicfed with pains in the loins, groins, fides, thigl.s, and fect, together with an acute fever, accompanied with horrors. Wheri the pains happen unattended with a fever, he orders bathing, and the head to be anointed with oil of dill; and a ceecection of mallows, with oil of Cyprus, to be applicd externally, in order to alfuage the pain. He fa:s, in all diforders where fomentations are neceffary, the parts ought afo teruards to be anointed with oil; bat when there is a fever in the cafe, hatling mur be avoided, warmt fomentations ufed, the uterine medicines frefribed in drauglits, and garlic, caftor, or me, boiled with oatmeal; he likewife uferess, that if the uterus in ingated after delicery, the patient is in inminent dangcr of her life unlefs a thol can be procured, or the fymptom removed by bleeding. Ite likewifo afcribes feveral complaints arid dif. reders of women to the different potitions and motions of the uterus; of which lath, Thato, who lived immediately afier Hippocrates, gives a very
 implanted in the genital of man an in prious, headtrong, incbedient fower, that emicavours io fu'pet exiry thing to itn furious lufis, he fays, the vuls a and mation of women is atfo an anmal rascous afier gencmation, whicla

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being beulked of its defirc for any length of time, is fo enraged at the dif appointment and delay, that it wanders up and down through the body, obftructing the circulation, topping the breath, producing fuffocations, and all manner of difeafes.

Although we have a piece in Englifh called Arifotle's Midwifery, I find little or nothing of the practice in his works; he lath wristen on the generation of animals; and we find in him feveral hints curious enough, even upon our fubject: he tells us, that women fuffer more than other animals from uterine geftation and labour: that thofe women who take molt exercile, endure both with the greatelt eafe and fafety; and that the foetus in all aninals naturally comes by the head, becaufe there being more matter above than below the navel, the head necefiarily tilts downwards. For this reafon, he fays, every birth in which the head prefents is natural, and thofe unnatural in which the feet or any other part of the body come foremof.

We have nothing written on the fubjcet of midwifery from his time to that of Celfus, who is fuppofed to have lived in the reign of the emperor Tiberius. This author hath given us a chaptcr on the delivery of dead children and the placenta, in which he hath copied from Hippocrates; though he is more full than his mafter, and mentions feveral improvements on his practice. After having given directions with regard to the woman's pofition, he advifes the operator to introduce one finger after another, until the whole hand faall gain admittance; he fays, that the largenefs of the uterus, and the flrength and courage of the patient, are great advantages to the birth ; that the woman's abdomen and extremities mult be kept as warm as poffible; that we muft not wait until an inflammation is produced, but affilt her without delay; becaufe, fhould her body be fivelled, we can neither introduce our hands, nor deliver the child, without great difficulty; and vomitings, tremors, and convulfions, ofren enfue. When the crotchet is fixed upon the head, he directs us to pull with caution, left the inftrument frould give way, and laceratc the mouth of the wonb; by which means the woman would be thrown into convulitons and imminent danger of her life. When the feet prefeut, he lays, the child is eafily delivered, by laying hold on them with the hands, and fo bringing them along. If the feetus lie acrofs, and cannot be brought down, he orders the crotchet to be fixed on the armpit, and drawn along by little and little; by thefe endeavours the neck will be almoft doubled, and the head bent backivards; in which cafe this lait muft be feparated from the body, and the whole extracted piece-meal. The operation, he fays, muit be performed with a crotchet, the internal furface of which is edged, and the head be brought away before the body; becaufc, if the greateft part be extracted firlt, and the head left aione in the uterus, the cafe will be attended with great dificulty and danger. Neverthelefs, fhould this misfortunc happen, he direets a double clorh to be laid on the woman's be!ly, and a fkilful affiftant to fland at her loft fide, and with both hands on the ablomen to prefs from fide to fide, with a view of forceing the head againit the os utcri; which heing effected, it muft be delirered by fixing the crotchet in the fkull. With regard to the placenta, he directs us to deliver it in this manner: The child being delivered, nunt be given to a fervant, who holds it on the palms of his hands, while the operator gently pulls the umbilical cord for fear of breaking it, and tracing it with his right-liand as far as the fecundines, feprates the placenta from the uterus with his fingers, and exeracts it entire, tojether with the gramous blood; then the woman's thighs being placed clofe to ether, the thult be kept in a moderately
modetately warm room, free from wind, and a cloth dipped in oxyrrhodon muft be laid on her abdomen ; the reft of the cure confifting in the application of thofe things which are ufed in inflammations and wounds of the tendons.

Mofchion; who is fuppofed to have lived at Rome in the reign of Nero, fays, that in difficult births the parts are firt of all to be relaxed with oil if the paffage of the urine is obftructed by a tone in the neck of the bladder, he advifes us to draw off the water with a cátheter; if the frees are indurated, he prefcribes a clyfter; and orders the membranes to be pierced with a lancet. He fays the beft pofition is that of the head prefenting, the hands and feet being ningled and difpofed along the fides's If the pufition is not right, and cinnot be amended by putting the woman in proper pofures, he advifes us to introduce the hand when the os uteri is opened; and turn the child. If a foot prefents (figys he) puth it back, and bring the foetus by both feet, the arms being prefied down along the filtes; if the kniee or hip prefents they muft alfo be pufied back, and the child brought by the feet; if the back prefents, introduce the hand, and alter the pofition by turning to the feet or to the head, if it be neareft; and if the head is large it mult be opened, \&cc.

Rufus Ephefus, who lived in the reign of Trajan, gives a fhort account of the uterus and its appendages, and defcrites thofe tubes which are now called Fallopian, as opening into the cavity of the womb; though Galeri arrogates this difcovery to himfelf fo particularly, as to fay upon this fubject, that he was furprifed to find they had efcaped the notice of the common herd of anatomifts; but more efpecially amazed that a man of Herophilus's accuracy ihould be ignorant of them; and Rufus has exprefsly mentioned the cpinion of Herophilus on this particular.

Galen was born in the time of the emperor Adrian, anno Dorn. 131 , about fix hundred years after Hippocrates; upon whofe works he writes commentaries, and gives fome reafonable aphorifms relating to women and children; we have two books of his writing, De Semine (the third being àccounted fpurious) one De Uteri Diffectione, de Foetuum Formatione, de Septimeltri Partu, lib. 14, and 15, de Ufu Partium. He hath alfo written feveral bouks on aratomy and phyfrology, but nothing de morbis mululicrum. In his phyfology he is prolix and inaccurate; his anatomy is pretty exact in many things; but, upon the whole, he contains little or nothing to our purpofe.

In Oribafius, who was a phyfician to Julian, we have a defcription of the parts, and in fcveral places of his works, an arccunt of the medicines ufed by the ancients in the difeafes of women and children; he has alfo a chapter on the choice of a nurfe, and another upon the milk, but fays nothing of the operation.

Ftius, who (according to Le Clere) lived in the end of the fourth, hut in the opinion of Dr. Friend, in the end of the fifth century, was likewife a collector from the ancients; for neither he nor Oribaftus can be tilied original writers; the laft indced copied from none fcarcely but Galen, and was therefore ftiled Simia Galcni; whereas the otlier compiled from all the authors that went before him, many of whom would have been loft in oblivion, had not they been mentioned in his works. He is very particular upon the difcafcs and management of women ; his fourth Sermo of the e fourth Tetrad bcing exprefsly written on this fubject, and containing almoft crery thing which had been faid before him.
-In his firt chapter, De Uteri Situ, Mignitudine, ac Forma, he diftinctly divides the womb into a fundus and neek, and defcribes the os tinca as ending in the finus muliebris, five pudendum; which plainly appears to be no other than what we now call the vagina; for he fays it is above fix inches in length; but his defeription of the figure of the uterus is imperfect. His feventh chapter treats of conception, from Soranus. The tenth of the pica, taken from fome of Galen's works that are loft: His defcription of this difeafe is to the following purpofe:-Young women with child have vitiated appetites, and long for earth, athes, coal, thells, \&ic. The diftemper continues till the fecond or third month of geltation ; but commonly abates in the fourth. To remedy the naufea and vomiting that attend it; he orders aloes, dried mint, and other ftomachies:

In his twelfth and fifteenth chapters, he gives à detail of Afpafia's practice in the care and managcment of women during pregnancy, and in the time of labour ; but the gieateft part of thefe and the other chapters are taken from Hippoerates, to whom he has made a few infignificant additions, until we cone to the twenty-fecond, in which there is a very full and diftinct account of diffeult births.

Among the canfes that produce diffieult labours, he eniumerates weaknefs of mind or body, or both, a confined uterus, a narrow paffage; natural finallnefs of the parts, obliquity of the neck of the uterus, a flefhy fubtance adhering to the cervix or mouth of the womb, inflammation, abfeefs or induration of the parts, rigidity of the membranes, premature difcharge of the waters, which ought to be detained for moiftening and lubricating the parts; a ftone preffing againit the neek of the bladder, and extraordinary fatnefs; an dachylofis of the otia pubis at their juncture, by which they are hindered from feparating in time of parturition; too great prefure of the uterus on the cavity of the loins, or too great quantity of freces and urine retained in the rectum and bladder; àn enfeebled conftitution, advanced age, flender makc; and gteennefs of years, attended with weaknefs and inexperience.

He obferves; that diffenlt labours likewife proceed from cireumfances belonging to the child that is to be born; from the extraordinary fize of the body or any part of it; from its being unajle (through weakneff) to facilitate the Birth by its leaping and motion; from the erowding of two or threc foetufes; from twins prefenting together at the mouth of the womb; from the death of the child, as it can give no affiftance in promoting labour; from: its tumefation after death, and wrong prefentation:

He fays the natural poftion is when the hend preients and comes forwards; the hands being extended along the thighis; and the preternatural, that in which the head is turned either to the right or left fide of che uterus; wheri one or both hands preferit, and the legs within are feparated from one another; that the danger is not great when the feet prefent, efpecially if the child comes forwards with the liands along the thighs; and that if while one leg prefents, the othér is kepe up or bent in the vagina, this laft munt be brought down; nor is the difficulty great in thofe that lie acrofs, a circumitance that may happen in three diferent ways; mamely, when the child prefenis with either hide, or with the belly ; neverthelefs he obferves, that the cafe is edfielt when the fide refents, becaufe there is more room for the bperator to introduce his hand and turn the fixtus, fo as that it $m y$ come either by the head or feet. The wort polition, he fays, is whicn the child prefents double, efpecially if the hip. bones co ne forcmoit; this double prerentation happens with the hips, the headand kerg, and the belly ; in which
laft cafe he obferves, that if the abdomen is opened, and the entrails takeri out, the parts collapie, and the pofition is eafily altored.

Over and above the forc-mentioned caufes of difficult labour, he affirms It may be owing to an over-thicknefs or thinncfs of the membranes which break too late or too foon; as alfo to extcrnal caufes, fuch as cold weather, by which the pores and paflages of the body are conftringed; or very hot whather, by which they are too much relaxed. All thefe circumftances, he fays, ought to be minutely enquird into, and duly confidered, by the phyficiun who diects the midwife; nor ought this laft to be permitted to tcar or flretch the parts with violence. If the difficulty prosceds from the form of the pelris, he ditects the woman to be feated on a ftool, her knees being bent and kept afunder; by which means the rulva will be dilated, and the cervix extended in a flreight line; and thofe that are grofs or fat are to be placed in the fame manne:- If the difficulty arifes from ftraitncfs, ftupor, or contrations, he fays it will be proper to relax the parts, by feating the patient over warm ftcams and fumigations in a place conveniently warmed; by pouring into the vagina warmed oils, and by the application of emollient ointments and cataplafms'; for this purpofe he likewife recommends the warm bath, unlefs a fever or other complaint render it improper: Some, he obfcrves, are carried about in a litter in a warm place; and others have Leen fubjected to viclent concuffions; but thofe who, by a weak loofe habit, are too much onfeebled to undergo labour, ought to be treated with preforiptions that confolidate, flengthen, and conitringe; they ought 10 be fprinkled with perfumes and vinegar, anointed with cooling ointments of wine and oil of rofes, and fit over infufions of rofes, myrtle, pomegranates, and vine-twigs. If the difficulty is owing to the preternatural polition of the foetus, it muft be as much as poffible reduced into the natural way. If the foot or hand is protruded, the child mult not be pulled by either; the limb muft be returned, twifted, or lopped off, and the fhoulder or hip moved with the fingers into a mere convenient fituation. When the whole body of the foctus is frongly prefied down in a wrong poftion, he advifes us to raife it to the uppermoft part of the uterus, and turn it downwards again in a right pofture ; this opcration muft be performed gently and flowly, without violence; oil being frequemtlj injected into the parts that no imjury may be fufained by etther mother or child. If the mouth of the womb continues clofe fhut, it muft be foftened and relaxed with oily medicines; if there is a flone in the neck of the bladder, it muff be pufned up with the catheter, and the urine (if in great quantity) drawn off. If the rectum is filled with fæces, it mutt be evacua:ed by clyfters; and proper methods are to be taken when delisery is presented by inflammation, abferis, ukeer, foft or liazd tumours, or any otlice fuch obifacles.

If fice cififculty proceeds from a flethy futtance adhering to the neck of the womb, or from a thick membranc found in thofe women who are imperforated, the obflacie in both eafes muft be removed by the knife; and if the membrancs that furround the child are too rigid to give way at the prosfer time, they muf be cus without delay; if, on the contrary, the waters arc difcharged too foon, fo as that the parts are left dry, the want of them muft le fupplied with lubricating injections made with the whites of e: gs, $^{\text {s }}$ decoctions of mailows, fenugreik, and the cream of barley ptifan.

If the difficulty prorseds from the fmallnefs or frong contraction of the utems, the parts are likewife to be rendered fort and ditenfible with lubricating ointments and fomentations ; the mouth of the womb mult he dilated with the finger's, and the child extracted by force; but flould this method
fail, the foetus mult be cut in pieces, and brought away by little and little ${ }_{p}$ This, he fays, is the only refource when the fortus is too large, and the moft proper when it is dead; and its death may be certainly pronounced when the prefenting part is felt cold and without motion. When two or three chilidren prefent in the neck of the uterus, thofe that are highelt mult be raifed to the fundus, until the loweft be firtt delivered.

- If the difficulty is owing to the excefive largeneif of the head, breaft, or belly, he fays, it will be abfolutely necelfary to open thefe cavities; and obferves, that the moft proper time for placing the woman in labour upon the fool, is when the membranes are felt prefenting in a round extended bag.
His twenty-third chapter cont:ins the method of extraction and exfection of the fcetus from Philumenus, and is an accurate det il of the operations recommended above. He fays, before the operator begins to deliver by exfection, he ought to confider the ftrength of the patient, and determine with himfelf whether or not there is a probability of faving her life; becanfe if the is exhaufted, enervated, lethargic, feized with convulions, fubfultus tendinum, with a difordered pulfe, it is better to decline the operation than run the rik of her perithing under his hands; but if he thinks her ftrength and courage fuincient for the occafion, let her be laid in bed, on her back, her head being low, and her legs held afunder by frong experienced women ; fhe may take hy way of cordial, two or three mouthfuls of bread dipped in wine, in order to prevent herfainting ; for which purpofe, her face unay be alfo fprinkled with wine during the operation. The furgeon having openced the pudenda with an inftrument, and obferved the fource of the difficulty, whether tumour, callus, or any of the caufes alrcady mentioned, he muft take hold of it with a forceps, and amputate with a biftory: If a membrane obitructs the mouth of the womb, it muft be divided, If the delivefy is prevented by the rigidity of the membranes that envelope thefcetus, they muft be pinched up with a pair of fnall forceps, and cut with a fharp knife, then the perforation may be dilated with the fingers, fo as to efect a fufficicnt opening for the pafage of the child.
If the paffage is obftructed by the head of the foetus, it muft be turncd and celivered by the feet; but if the head is fo impacted as that it cannot poffibly be returned, a hook or erotchet mult be fixed in the eje, mouth, or over the chin, and in this manner the child may be extracted with the operator's right hand ; but befides this crotchet, which ought to be gently introduced, and guarded with tie fingers of the left-hand, a nother mult be infinuated in the fance manner, and fixed on the oppofite fide, that the head may be extrafied more equally, without Aticking in one place; and one of the inftruments hold in cafe the other fhould flip; and when thefe crntchets are properly applied, the operator mult pull, not only in a ftreight line, but alfo from fide to fide.

He directs us to introduce our fingers befacared with unduous medicines, betwixt the mouth of the woinb and the impacted body, in order to lubricate it all round. When the foetus is deliveced as far as the middle, the extricting inftrument muft be fixed in the upper paits; if the head is etther naturally too large or dropfical, it muft be opened with a fharppointed knife, that it may he evacuated, contracted and delive.ed; lout if, notwithnanding this operation, it cannot be brought along, the fkull mult be fyucezed together, the bones pulled out with the fingers, or bonc-forceps, and the crotchet fixed for delivery. If after the head is extrifted, there mould be a contraction round the thorax, a perforation mult be made near
the clavicles in the cavity of the breaf, that the bulk may be diminifhed by the evacuation of the contained humours; if the child is dead, and the belly diftended with air or water, the abdomen muft alfo be opened, and, if need be, the intefines extracted.

If the arm prefents, it muft be feparated at the joint of the fhoulder; for this purpofe a cloth muft be wrapped round it, that it may not nip while it is pulled down to the fhoulder; then opening the labia, the joint will appear at which the limb may be taken off. 'I his amputation being performcd , the head muft be puthed up, and the foctus delivered. The fame method mult be purfued when both arms prefent, and when, though the feet are forced out, the reft of the body will not follow; in which care the legs num be feparated at the groins.

If, when the fortus prefents double and cannot be raifed up, the head is fartheft down, the bones of the fkull are to be fqueezed together without opening the fenlp or fkin, and the crotchet being fixed in fome part of it will bring it forth, the body following in a ftreight line; but if thic legs are nearelt, they muft he amputated at the coxa, and the hips pufhed up, fo as to allow the head to be fqueezed and prepared for extraction. When the fertus prefents double, he fays it is better to divide the head from the body than to puit up the thorax and deliver by the feet; but fhonld the reft of the body be delivered and the head left behind, the left-hand, anointed, muft be introduced into the utcrus, and the head being brought down with the fingers to the mouth of the womb, one or two crotchets muft be fixed upon it, in order to bring it along; the moft proper places in the head for the application of this inftrument being the eyes, ears, mouth, or under the chin. For the extraction of the thorax, it may be fixed in the arm-pits, clavicles, precordia, breaft, and joints of the back and neck; for the lower? parts, on the pubis, or in the puandenda of female children.

If the mouth of the womb be flhut by an inflammation, he cautions us againft ufing any violcnce, but orders it to be foftened and relaxed by oily medicines, fumigations, baths, cataplafms; by thefe means the inflammation will be leffened or removed, and the os internum dilated fo as to allow the foetus to be delivered. If the body has been extracted piecc-meal, he direcis the parts to be laid together, in order to obferwe if the whole is delivered; and if any thing remains, it mut be extracted without delay.

In his twenty-fourth chapter (the fubftance of which is alfo talien from Philumenus) he lays down the following direetions for extracting the fecundines:

The os internum (when the fecundines are detained) is fometimes furs, fometimes open, and often inflamed; the placenta fometime"s adhering to the fundus, and fometimes in a ftate of feparation. If the os internum is open, and the fecundines, feparated from the uterus, 1c rolled up like a ball, they ate eafly extracied by introducing the left-hand warmed and anoinred; and after taking hold of them, drawing them gently down from fide to fide, and not flreight forwards, for fear of a prolapfus vulva If the os utcri is thut, it mult be opened flowly with the finger, after it hath been lubricated with oil, or auxurge. If this method fhould fail, a pultice of I arley'-meil malaxed with oil, mutt be applied the belly, the oily injoctions repeated, and if the patient's frength will permit, the muft tale fiernutatoris of caftor and pepper, and potious of thofe modicines that bring bourn the wenfes, fitting at the fame time over a fumigation.

All thefe things mult be tried on the firft and fecond days, and if they fucceed fo as to $0_{s}^{\text {ren en the mouth of the womb, the fecundines will be eafily }}$
exiracted as above. But if all thefe methods fail, the woman muft be no longer fatigued; they will in a few days putrify and come off in a diffolved fanies; and fhould the foerid fmell aiffect the head and ftomach, he preferibes fuch medicines as are ufed in obfructions of the menfes.

His next chapter, which is taken from Afpafia, treats of the management of women after delivery, and he writes feveral more on the difeafes: incident to women, fuch as inflammations, impoftumes, and cancers of: the breaft and uterus; compiled from Philumenus, Leonides, Archigenes Philagrius, Soranus, Rufus, A〔pafia, and Afclepiades.

The next confiderable author on this fubject is Paulus Ægineta, whom Le Clere fuppofed to have lived in the latterend of the fourth century, thoughDr. Friend brings him down to the feventh; he was the laft of the old Greck medical wtiters.

His method of practice is much the fame with that of Rtius and Philumenus, as above defcribed; and though not fo full as they, he is very diftinct and particular. He tells us in his preface, that he had eollected from others, and although he was the frrt who had the name of man-nidwife from the Arabians, the writings of Etius plainly fhew that there had been many male-practitioners before him. In the fcrenty-fixth chapter of his third book, which treats of difficult births, he gives the appellation of natural to all thofe in which the head or feet prefent; and all other pofitions he deems preternatural.

In another place, he obferves, that the woman ought to be feated on the fool or chair, when by the touch the mouth of the womb is felt open, and the membranes puflied down. As to his method of extracting a dead child and the plaeenta, it is much the fame with that alrcady deicribed from Philumenus, in the preceding article.

Paulus is fuppofed to have ftudicd at Alexandria; for long before his time, the Roman empire in the weft had been over-run and ruined by the Goths and Vandals. Soon after this period, learning began to decline in the ealt; the fchools of Alexandria were removed to Antioch and Haran by the Saracens, who fubdued Egypt, and deftroyed the Roman empire in Alia; and then the Greek phyficians were tranflated into the Syriac and Arabic, at leaft the Arabians eopied from them. This fubject is fully difeufled by Dr. Friend, in his Hittory of Phyfie.

Serapion, one of the firft Arabian writers, in his Tractatus Quintus, has feveral chapters on the difeafes of pregnant women, with the method of eure-

The next author of any note belonging to this country was Rhazes; who in the latter end of the minth century lived at Bagaat. Like other fyitemar tic writers in phyfie, he hath treated of the difeafcs of women; and writteri one book exprefsly on the difeafes of ehildren.

In the laft ehapter of his Liber Divifionum, he orders the membranes, whan they are too tough, to be pierced with the nail of the linger, or with a little knife; and if the waters are difcharged a long time before delivery, fo that the parts rempin dry, he directs us to anoint them with oily cerates.

Aviccina lived at Ifpahan about the ycar one thoufand; and was fo famous for his writings all over Afia and Europe, that no other doctrine was taught in the fchools of phyfic till the reftoration of learning. Hc is a voluminous auther, treats largely of every part of midwifery, fo far as it was known in his time ; copying from thofe that went before him ; the operation for the dead child he takes from Paulus; the extraction of the ferundines from Philumenus; and the ufe of the fillet from his countryman

Khazes.

Rhazes. He is very full on all the difeafes of women relating to the menfes, uterine geftation, and delivery.

In all preternatural eafes he fays, the head ought to be reduced into the natural pofition: but fhould this be found impracticable, he advifes us to deliver by the feet. He alledges that the head is the only natural way of prefenting, and that all other pofitions are preternatural ; though of thefe the eafieft is when the foctus profents with the'fect.

He recommends all the old methods for afifing in naturallabours ; and if the woman eannot be delivered by thefe, he orders a fillet to be fixed over the head; if that cannot be done, to extract with the forceps; and fould thefe fail, to open the fiull ; by which means the contents will be evacuated, the head diminithed, and the feetus calily delivered.

The next Arabian medical writer is Albucafis, who, in the eleventh or twelfth century, lived at Cyropolis, a city of Media, on the Cafpian fea; and it appears from an Arabian manufcript in the Bodleian library, that this is the fance perfon who was alfo known by the name of Alfaharavius.
He hath writen on natural labours in the fame way with his predeceffors, advifing us to affitt the birth with fomentations and ointments, and by reducing the child into the natural pofition when any other part than the head prefents. His operation for extrafting the dead child is literally the fame with that deferibad by Ætius; but whether he copied it from that author, or from other Arabians his predeceffors, is uncertain.

What is moft particular in this author is, the defription and f.gures of the inftruments then ufed in midwifery: namely, a veriigo for opening the matrix, which feems to be much of the fame contrivance with that which Rhazes calls the torculum volaris. He likewife exhibits the figures of twa other inftruments for the fame purpofe; but not one of the three in the leaft refembles the fpeculum matricis, defcribed in later writers : an impellens, to keep up the body of the child while the operator endeavours ta reduce the head into the natural pofition: two kinds of fareeps, the larger he calls almifdach, the other anifdach; and two different kinds of crotehets. The almildach is of a cireular form, and feems eontrived to deliver the head in laborious cafes; the mifalach is ftreight and full of tceth, according to the manufeript in the Bodleian library at Oxford; but in the Latin edition, both are eircular and fuil of teeth.

After the twelfin century, phyfic began to decline in Afia. Theodore Gaza brought the Greek manuferipts from Conflantinople, after that city was taken in the year 1453; and about this time the art of printing being found out, all the knowiedge of the ancie.ts was foon difuerfed over Europe.

In the next century the practice of phyfic legan to be encouraged in England. Linacre, born at Canterbury, and chofen fellow of All-fouls in Oxford in the year 1484, was a man of ícarning, and projecied the foundation of the college of phyficians in London; for which he obtained a patent from king Henry VIIl. and was himfelf prefident of it till the day of his death.

In the year 1565 , one Dr. Raynalde publimed a book on midwifery, which he had tranfated into Englith from the original Latin. He informs the reader in his prolngue (as he terms it) that the boak, which was called Be Jartu Hominis, had heen tranfated ahout two or three years hefore, at the requeft of fome women, by a fudicus and diligent clerk; who having ferformed the tall: inecoreefty, be (Dr. Raynalde) had heen at great pains to revife and enlarge it isi anounco tenfiation; he alfo obferves, that the

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Latin edition had been formcrly publifhed in Dutch, French, Spanifh, and other languages.*

The author of this performance (contrary to the opinions of all other writers) fay's, when the child prefents in the natural way with the hcad, that the face and forc-parts of the fuetus are towards the fore-parts of the mother; and that if any other part prefents, the pofition is preternatural. He oblerves, that in France and Germany the woman is commonly placed in a fitting pofition, on a fool made in form of a compass; and advifes us, in all preternatural cafes, to turn the child to the natural pofition, even when the feet prefent ; but if this fhould be impracticable, to bring it footling, and in extracting to bind the fect together with a linen cloth. This, however, he pronounces a very jeopardous labour. He directs us to provoke and promote the delivery with fumigations and peffaries, and to prefcribe internally, affa-footida, myrrl, caftor, and ftorax; from which circumftances, he feems to have copied from the ancient writers.

Several authors of note lived and wrote in the fixteenth century, or betwixt the years 1530 and 1590 , upon the difeafes of pregnant women and the different methods of delivery. A collection of the molt remarkable among thefe writers, who are called the old moderns, was publifhed at Bafil, $1586_{3}$ in 4to. entitled, Gynxciorum Commentaria; and afterwards, in 1597 , republifhed at Strafourg in tolio, by Ifrael Spacius, profeffor of medicine in that city, with the addition of two authors who had not been mentioned in the firtt. At the head of this collection is Felix Plateras, born at Bafil; he publifhed tables, explaining the ufe and ftructure of the parts of generation proper to women.

The next is the Harmonian Gynxciorum collected from Cleopatra, Mofchion. Theodorus Prifcianus, and another uncertain author, freed from repeticions and fuperfluities by Cafparus Vulphius.

Then follows Eros or Tortula, firft publifhed among the old Latin writers at Venice, by the fons of Aldus:

The fourth place is hcld by Nicolaus Rocheus, a Frenchman, whofe works, publifhed at Paris, arc taken from the Greeks and Arabians; though he hath added fomc obfervations of his own. In his twenty-eight chapter he fays, if the child is large, the os uteri mult be dilated; if the hand or foot prefents, ncither mult be laid hold on ; but the operato- introducing his hand to the buttock or fhoulder, muft reduce the footus into the natural fituation, that is, fo as to prefent with the head. His thirtieth chapter contains directions for extracting the placenta whon it adheres. The os uteri munt be dilated, and the accoucheur taking hold of the funis, mutt pull gently from fide to fide, lett the uterus fhould be brought down; then more itrength muit be excreed by degrees, until the fecundines are brought away. His thirty-fecond claptcr treats of monters.

Ludovicus Bon ciolus, of Ferrara, is the fifth : his works were publifhed at Straflours.
The fixth is Jacobus Silvius, of Amiens in Picardy:
Then comea Jacobus Rueif, who publifhed at Zurich in Switzcrland, and afterwards at lranckfort. He is the firit who gives a draught of the fpeculum matricis for dilating the os internum, which he dircets to be

[^0]Aretched in width; but by no means Jengthwife, left, the ligaments hreak: ing, the womb flould fall down. When the feet prefent, and the hands are ftretched along the fides, he advifes us to deliver footling; but if the hands are up over the head, he fays the child ought not to be brought by the fect, unlefs the head be very fmall: If the knees prefent, he orders them to be - pufhed up; and the child to be delivered by the feet; but if the brcech comes firft, it mult be reduced, and the fcetus brought by the head. The fame practice he recommends in the prefentation of the hands, fhoulder, or hands and feet together.

He is fucceded by Hieron: Mercurialis, who lived ät Padua, Venice, and Bologna, and practifed much in the fame manner.

The ninth is Johannes Baptita Montanus of Padua. ViEtor Trincavillius of Venice is the next. Albcrtus Bottonus of Padua is the eleventh.

After him cómes Joannes le bon Heteropolitanus.
The author who liolds the next place in this collection, is Ambrofius Parous, the famous reftorer and improver of midwifery. He lived at Paris, and his works were tranflated into Latin by Jacob. Gullimeau.

Next to him; Spachius places Albucaiis the A rabian, already mentioned. Then, Francifcus Rouffetus, who wrote on the Cæfarian operation. His work was tranflated from Frefich by Cafparus Bauhinus; and feveral of his cafes are publifhed in the Memoirs of the Academy of Surgeons, by M. Simon:

Therc is alfo the "figure of a petrified child, extrated from the womb' after the death of the mother; a particular account of which, is added to ${ }^{\circ}$ Cordæus' comment upon Hippocratcs.

Cafpxrus Bauhinus, profeffor at Bafil, is the fixteenth. Then Mauritius Cordxus, of Rheims and Paris.

The next is Martinus Akakia; of Paris; and the laft is Ludovicus Mercatus, a Spariard. This author fays, if the child does not prefent with the head or fcet, the cafe is dangerous, and preternatural; nor is the prefentation of the feet without hazard and difficulty: In laborious cafes, if the woman be young and vigorous, he prefcribes bleeding in the foot, after Hippocrates ; but is againft the ufe of the bath.

If the foetus comes double, or pirefents ivrong, he directs as to pufh it up; and bring down the head, if pofille; which ought alfo to be our aim when the hand or foot prefents. He orders the fingers to be introduced, as Paulus dircits (digitis in unuun conductis) that is, the fingers and thumb formed into the fhape of a conc. He exclaims againft the Crefarian operation as an unchritiian undertaking; direets us, when the placenta adheres, to introduce the hand, and puil the funis gently f:om fide to fide; and recommends' faeezing to the woman, as conducive to its expulfion.

When he treats of the manner of extrating a dead child, he fays, with死tius, we dught firtt to confider whether or not the womain has ferength fufficient to bear the operation; then gives the method of Hippocrates; and in the ricxt page defcribes the manner of Atius.

Having thus given a flort feetch of the authors collçted by Spachius; I fhall return to Pareus, who (as I have already hinted) was the firf modern that made any confiderable improrcments in midwifery, which continucd to his time without any material alteration, even after the other branches of phyfic had been improved. For cxample, if the child did not prefent in the natural way, they fhook and altered the pofition of the woiman, by which means they imagined the feetus would turn to the right pofture; or they attem, ted to move it fo th that it hoold prefent with the heed. If
this could not be effected, and the feet were near at hand; they brought it footling; but if they failed in this attempt, the child was fuppofed to be dead, and extrated with crotchets and hooks of various kinds; and if it could not be delivered in that manner, on account of its extraordinary fize or the narrownefs of the pelvis, they difmembered and feparated the body with crooked and Itreight knivcs; and then extracted it piece-meal:
Pareus was che firft who deviated from this practice, and exprefly order3 the child to be turned and brought away by the feet in all preternatural cafes. He fays, the molt natural cafe is that in which the child prefents with the head; and is delivered imnicdiately on the difcharge of the waters: it is more difficult when the fortus contes by the feet, and litl mote fo on the prefentation of the arm and legs together' the back, belly; arm alone, or any other unnatural pofition: He directs us to bring away the fecundines imınediately after the child is detivered: He fetains̊ the old notions relating to the difeafes and medicines; for the ancient theory was not altered till after the great Hervey found out the circulation of the blood:

Cotemporary with him, was the above-mentioned Jacobuts Rueff, who practifed at Frankfort, and in his wititings recommends the method of the ancients; a circumftance from which we learn, that the improvements had not theri reached Germany. Indeed they were very much retarded by the falfe modefty of the women; who were thy of male practitioners; and by the miltaken notions which wer at that time entertained of the fructure of the uterus; for all the defcriptions thll the time of Vefalius were very imperfect; and the womb in women fuppofed to be formed of different cells; refembling thofe of the brute fpecies.
Jacobus Guillemeau was the pupil of Ambrofius Pareus, adopted and confirmed his mafter's practice; and hàs written with learning anid judgement:

About the end of the fixtenth century; or in Pareus's time; firgery in general was more cultivated and improved in Paris than any other part of the world; by nieans of the hofpitals which had been from time to time erected; efpecially the Hotel Dieu, into which podr women with child; deftitute of the neceffaries of life; were admitted:

By fuch opportunities; the furgeons improved their knowledge in midwifery; and hy degrees e?tblifhed a better method of practice; the fuccefs that attended which; together with the progreis of polite literatare, that hegan to fourifh about this time in Francé; got the better of thofe ridiculous prejudices which the fair fcx had been ufed to entertain, and they had recuurfe to the affiftance of men in all difficult cafés of midwifery. This conduct was juftified by experience; and the lives of many women and children were faved by the fkill of the nan-practitioner.

In the ycar 1683, Franzis Mauriceau, after an extenfive practice for feveral years in the Hotel Dieu and city of Pafis; publifhed a treatife on midaifery, which exceeded cvery thing befor made public on that fubje Ct . He défrribes the bones of the pelvis, and all the parts fubfervient to generation; the difeafes incidcut to pregriant women, with the methods of prevention and cure; and; áfer having given a full and dittinet account of all the different lahours, and the way of delivering in each cafe, conr cludes his work with the difeafes of wonten and children.

His method of practice was nearly the fame with that of Parxus, and Guillemcau ; but he is much fuller than cithcr. In laborious cafes, when the head prefents, and cannot be delivered by the labour-pains; he orders a Gillet or fripe of linen to be flit in the middle, and nippel over the heal. ;
this contrivance hath fince been improved with laces, by which it is coritracted on the head. It is introduced by three different inftruments, fixed with a great deal of trouble, and after all, of very little ufe.

He alfo invented a tire-tete, which cannot be applied until the flall is, opened with a knife; confequently can be of no fervice in faving the child; and granting the fcetus to be dead, other methods are much more effectual. He was ignorant of the forceps. When the head is left in the uterus, he advifes us to extraft it, by introducing over it a broad fillet like a fling.

He is fof full on the difeafes, that Buerhave rccommended him and Mercatus to his feholars on that fubject. In his theory of conception, he hath not der iated from the opinions of Hippocrates; and in his fecond volume he hath publifhed a great many judicious aphorifins, that are now tranflated into Englith by Mr. Jones; indeed, his writ ings were fo univerfally approved, that they have been tranlated into feveral different languages.

Cotemporary with Mauriceau, were Dr. Chamberlain and Fis three fons, who pracifed midwifery in London with great reputation, One of thefe fons, father to the late Dr. Hugh Chamberlain, tranflated the firlt volume of Mauriceau into Englifh; and in a note upon that author's method of extracting the child by the help of the crotchet and tire-tete, affirms, that his father, brothers, and himfelf, were in poffelfion of a much better contrivance for that purpofe.

This was no other than the forceps, which they kept as a noftrom, and was not generally known till the year 1733 , when a defcript on of the infrument was publithed by Chapman. Long before that period indeed, feveral kinds of forceps or extractors, different from thofe mentioned by the Arabians, were ufed in France, Germany, and othcr paces ; but all of them fell fhort of the inftrument ufed by the Chamberlains, and faid to be contrived by the uncle.

In the laft century, although there were fuch excellent pratitioners in London, and even before the tramhation of Mauriceau, Guillemeau's book on midwifery had been tranflated into Englifh; and in it all the abfurd notions about fpells and amulets were left out : neverthelefs one Nicholas Culpepper, who files himfelf Gent. ftudent in phyfic and aitronony, publinhed at London a book intitled, A Directory for Midwives; in which he has copied the theory and practice of the old writers, many of whom he mentions, namely, Hippocrates, Galen, Ætius, \&ec and frequently advifes the reader to confult his tranflations of Sennertus, Riverius, Riolanus, Bartholin, Johnton, Veningius, Rulandus, Sanctorius, Cole, the London Difpenfatory, and a book which he himfelf had publifhed under the title of The Englifh Phyfucian, Itis performances were for many years in great vogue with the midwives, and are tiil read by the lower fort, whofe heads are weak enough to admit fuch ridiculous notions.

He was fucceeded in that way of writing by one Dr. Salmon, who was alfo a great tranflator and compiler. He was partly author of a fpurious piece called Ar ;ifote's Midwoife $y$, which hath undergone a great many editions, and contributed to keep up the belief of the marvellous effects of various medicines.

Mauriceau, in $1 ; 06$, publifhed a fecond rolume, containing about eight hundred olfervations; but long before that period, he had gained fuch reputation by his writings as encouraged others of the fame nation to write on the fame fubject. Accordingly we have the works of Portal, Peu, and Dionis; but all of thenfall hort of Mauriccau. About this time alfo Satiard wrote feveral obfervatious on the fame art.

Henry Daventer practifcd'at Dort in Holland ; and in 1701 publifhed a book on midwifery. He obferved, that an imaginay flreight line falling. down from the naval would pafs through the middle of the pelvis. This will nearly hold true when the abdomen is not diftended; but in the laft month of uterine geftation, in order to pafs through the middle of the pelris, fuch aline mult be let fall from the middle fpace betwixt the naval and fcrobiculous cordis. This, however, was a good hint and ufeful in practice.

He pretends to have made feveral ufeful difcoveries, which feem feafibleenough to thofe who have not had the opportunity of an extenfive practice; fuch as the fide or wroag pofitions of the os internum and fundus uteri, which (according to him) are chiefly the occafion of lingcring, difficult, and dangerous labours. He feems to have becn led into shis miftake, by fuppofing that the placenta always adhered to the fundus uteri. As to the difficulties proceeding from the wrong pofition of the os internum, a practitioner would be apt to believe he had never waited for the effect of the labour-pains, which generally open it, by purhing down the waters of head of the child.
He was feldom called except in difficult cafes, often proceeding from a diftorted pelvis, which is common in Holland. When this is the cafe, the head of the child is commonly catt forwards over the pubis by the jetting in of the facrum; or if one ilium is higher than the nther, the os internum and fundus are thrown to differcnt fides: bit even then the chief difficulty is owing to the narrownefs of the pelvis. The utcrus is very fcldom turned fo oblique as he fuppofes it to be; or if it were, provided the child is not too large, nor the pelvis narrow, I never found thofe difficulties he feems to have met with : and fhould the labour proyc tedious.on account of a pendulous belly, by altering the woman's pofition, the obftacle is commonly removed.

For example: let her breech be raifed higher than her fhoulders; or the may be laid upon her fide, in a preternatural cafe, when it is neceffary to turn and deliver the child by the feet. Neverthelefs, though he has run into extremes about the wrong pofitions of the utcrus, in which he is the more cxcufable, as he had the fondnefs of a parent for a thenry that he alledges was hís own, yet there are fome very ufeful hints in his book, particularly that about floodings, in which he directs us to break the membranes in order to reftrain the hæmorrhage; and his method of dilating the os externum.

The next noted writer in this way is Lamotte, who lived at Valognes, near Cacn in Normandy; and in 1715 publifhed a book on midwifery. which feems to bc the beft of the kind fince Mauriceau, and is tranflated into Englifh by Mr, Tomkins. It contains about four hundred obfervations, the greatelt part of which are illuftrated with many judicious reflec. tions.

In defcribing a cafe in which the head prefented, he mentions the greak fatiguc it had cof him to turn and deliver by the fcet ; and hopes that fore eafier method will be found out for extracting the child in fuch circumflances: fo thatt, although he wrote fo lately, he mult have beca ignorant of the forceps. Hc, as well as Daventer, cxclaims againft the ufe of inftruments; and in moft laborious cafes, when the licnd prefented, turned and extracted the foxtus by the feet.

A number of fuch cafes he has recounted ; but I am afraid that, like sther writers, he has copealed thofe that would have been more ufeful to
the young practitioner, and only given a detail of his own that were fucceffful: for certain it is, the head of the child is often fo large, or the pelvis fo narrow, that labour-pains cannot poffibly force it away; and frequently, when the foetus hath been turned with great fatigue, and the body actually extracted, the force sequired to deliver the head with the hands alone is fuch as deftroys the child; and fometimes it is abfolutely impoffible to bring it along without the help of inftruments.

For my own fart, when I firf began to practife, I determined to follow the method of thofe gentlemen; but having by thefe means loft feveral childreu, and fometimes the mother, I began to alter my opinion, and confult my own reafon: in confequence of which, in cafes of fuch emergency, I opened the head, with a view of faving the woman if I could not preferve the life of the child, In the courfe of my deliberations on this fubject, I likewife tried to imprave upon the forceps, which feemed to me an inftrument more meohanically adapted and eafier applied than any other contrivance hitkerto ufed : and furely experienee juftifies the ufe of this expedient, by which we are enabled toq fave many children which otherwife muft have been deitroyed,

Not that I would be thnuglt to exult over thofe authors whom I have mentioned, as moftly enemies to al! inftruments whatever: in other things they have written very judicioufly; and are blame-worthy in nothing fo much as in haqing fupprefled thofe unfuccefsful cafes which muft have pened to men of their extenfive practice.

I own indeed, when the woman has not frength nor pains fufficient to force along the child, and the difficulty does not proceed from a large head or narrow pelvis, the method of turning will prove fuccefsful; but, if in the other extreme, I appeal to all candid pracitioners, whether many children are not loft, even when the head does not prefent, and when the body is firft brought down, becaufe the foctus cannot be delivered in another manner.
The next writer in midwifery is M. Amand, of Paris, who defcribes the method of extracting the head, when left in the uterus, by means of a net. The contrivance is ingenious, but is not applied without great trouble, and cannot fucceed when the pelvis is too narrow, or the head too large to pafs.

Edmund Chapman practifed midwifery feveral years in the country before he fettled in London; where, 1733 , he publifhed a fhort account of the practice of midwifery, illuftrated with about fifty cafes; and is the firft perfon who made public a defcription of the forceps ufed by the ChamberJains, Giffard's oblervations were publifhed in the following year, by Dr. Hody, containing many ufeful remarks and hiftories of cafes in which he had ufed the extractors or forceps.

Heiftef, profeffor at Helmftadr, a little town in the dukedom of Brunfwick, in the year 1739, publifhed at Amfterdam a treatife on furgery ; in which we find a very concife and diftinct account of the practice of midwifery, as well as of the Cæfurian operation.

Mr. Ould, furgeon in Dublin, in the year 1742, publifhed a treatife on the practice of midwifery: in which there are two good obfervations; one relating to a cafe in which the head prefents, and the other feecifying what is to be done when delivery is retarded by the twifting of the funis round the neck of the child, He prcfers his terebra occulta to the fciffars, probably becaufe he did not know the proper dimenfions of this laft inftrument. The very next year, Mefnard publifhed at Paris a book on the fame fubject, by way of queftion and anfwer; and is the firft who contrived the curved in tieu of the fraight crotchets, which is a real improvement.

## I.N T R O D U C T I O N.

Over and above the writings of thofe I have mentioned, there are a great: many curious and extraordinary obfervations on the practice of this art in, Shenckius, Hildanus, Bonetus, the Philofophical Tranfactions, the Acade-mies of Sciences and of Surgeons, and the Medical Eflays of Edinhurgh and befides thefe, the beft notern authors who have written on the difeafer of women and children, are Sydenham, Harris, Boerhaave, Friend, Hamil ton, Hoffinan, and Shaw.

On the whole, that the young practitioner may not be mifed by the ufelefs theories and uncertain conjectures of both ancient and nodern writers it may be necefingy to oblerve in general, that all the hypothefes hitherto efpoufed are liable to many material objections; and that almoft every fyftem hath been overthrown by that which followed it.

This will probably be always the cafe : and indeed, as theory is but of little fervice towards afcertaining the diagnoflics and cure of difeafes, or improving the practice of midwifery, fuch enquiries are the lefs material. What Hifpocrates has written. about the form of the uterus and its various motions, conception, the formatiom of the child, the feventh ansd eighth month's births, was believed as infaliible till the lat century, when his doctrine of conception and nutrition of the foetus was overthrown; and many new and uncertain theories, on the fame fubject, introcuced.
Some of the moderns conclude, that the ancients never turned and brought child ren by the feet, becaufe Hippocrates directs us, in all cafes, to bring th head into the natural fituation ; and fays, that when delivery is performed by the feet, both mother and child are in inminent danger. Celfus, and all the writers till the time of Patæus, adopted this practice of bringing the head to prefent ; but at the fame time, many of them obferve, that if this be not practicable, we muft fearch for the feet, and deliver the foetus in that manner. Celfus fays, if the feet are at hand, the child is eafily delivered footling: and Philumenus goes ftill farther, faying, that if even the head fhould prefent, and the child cannot be delivered in that pofition, we muft turn and bring it by the feet.

With regard to the fillet and forceps, they have been alledged to be late" inventions; yet we find Avicenna recommending the ufe of both. The forceps recommended by Avicen is plainly intended to fave the foctus; for he fays, if it cannot be extracted by this inftrument, the head muft be opened and the fame method ufed which he defcribes in his chapter on the delivery of dead children.

To conclude, we find among the ancients feveral valuable jewels, buried under the rubbifh of ignorance and fuperftition; becaufe the affitañe of men was feldom follicited in cafes of midwifery till the laft extremity: and thofe difadvantages being confidered, we ought to be furprized at finding fo many excellent obfervations in the courfe of their practice; and be afhamed onrfelves of for the little improvement we have made in fo many centuries, notwithftanding our opportunities and the advantages we had from their experience.

True it is, we have eftablifhed a better method of delivering in laborious and preternatural cafes; by which many children are faved that muft have been deftroyed by their manner of practice ; but arenot many modern practitioners juftly branded for their fordid and unfocial principles, in profeffing noftrums, both with regard to medicines and methods of delivery ? Infomuch, that I have heard a gentleman of eminence in one of the branches of -medicine affirm, that he never knew one perfon of our profeffion who did

## xxiv $\quad I \quad N \quad T \quad R \quad O \quad D \quad U \quad C \quad T \quad I \quad O \quad N$.

not pretend to be in poffefion of rome fecret or another; from whence he concluded that we were altogether a body of empirics. Such reflections ought to make a fuitable impreffion upon the minds of the honeft and ingenuous, prompt them to lay afide all fuch pitiful felfifh confiderations, and for the future act with opennefs and candour ; which cannot fail of redounding to the honour of the profeffion and the good of fociety, as well as their own advantage.


## A

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## $\mathrm{B} \quad \mathrm{O} \quad \mathrm{O} \quad \mathrm{K} \quad \mathrm{I}$.

C $\quad \mathrm{H}$ A P. I.
The fructure and form of the pelvis, fo far as it is neceffary to be known in the practice of midwiffery.
$S E C T$.
OF THE BONES.

THE pelvis is compofed of three bones; the os facrum, with its appendix, known by the name of coccyx, and the two offa innominata. The facrum in children is divided into five diftinct bones and the coccyx into four cartilages; but, in adults, thefe laft are formed into as many moveable bones, and the divifions of the facrum offified fo as to bccome one bone.

Each os innominatum is, in infants, compofed of three different bones, under the appellation of os ilium, ifcbium, and pubis; which are joined to one another at the acetabulum or cavity that receives the round head of the thigh-bone. This compofition is in the point of figure, fo irregular, that although in adults the three are offified into one bonc, thofe different names are fill ufed, in order to diftinguifh one part of it from the other.

The offa innominata of the oppofite fides are joined to one another in the fore-part at the pubes, by a thick cartilage and ftrong ligaments; and the pofterior part of each os ilium is connected with the upper and lateral part of the facrum by the fame apparatus.

Divers authors and practitioners in this art have alledged, that, towards the latter end of geflation, when all the parts of the abdomen are ffrongly preffed by the increafed uterus, an extraordinary quantity of mueus is fecreted, not only by the glands of the os internum and vagina, but alfo by thofe belonging to the cartilages and ligaments that connect the bones of the pelvis; by which means, the ligaments and eartilages are foftened and relaxed, ard the bones are feparated from one another in time of labour. But, from experience and obfervation, I may venture to affert, that this feparation is by no means an ufual fymptom, though fonctines it may hap-
pen; in which cafe the patient fuffers orreat pain, and continues lame in thofe parts for a confiderable timc after delivery.
I. fome women, indeed, a kind of obfcure motion may be perccived, when the child's head is forecd into the pelvis by ftrong pains; the junctures of the facrum with the offailium, as well as that of the offa pubis, fcem to yield a very little alternately, in order to accommodate themfelves to the fhape of the head, as it is fqueezed down and pafles through the pelvis; but the bones are not feparated to any confiderable diftance. See part ii. collect. i. No. 1.

The coccyx is moveable at its connection with the facrum; as are alfo the four bones that compofe it, in their articulations one with another ; and this motion continues in adults, as well as in thofe of more tender years. In old age indeed, and even in young people who have fuffered bruifes upon the part, attended with great pain and inflammation, we frequently find the different pieces of this bone rigidly cemented together ; but this anchylofis the more feldom happens, becaufe they undergo a gentle motion at every excretion of the fæces, which helps to preferve their mobility. See part ii. collect. i. No. 2.

## $S \quad E \quad C \quad \tau_{0} \quad I I$.

THE brim or upper part of a well-fhaped pelvis reprefents a kind of imperfect oval, or fomething that approaches a triangular figure. If we confider it as an oval, the long axis paffes from fide to fide; but, as a ariangle, the pofterior part forms one fide, and the offa pubis conftitute the oppofite ang e fo that, behind, it is compofed of the broad part of the fàcrum, wherc it joins with the laft vertebra of the loins; on each fide, by the inferior parts of the ilia; and bcfore, by the upper parts of the offa pubis.

The lower circumference of the pelvis is formed, behind, by the inferior part of the facrum and its appendage; on each fide, by the lower part of each ifchium, and a broad ligament which rifes from the fpine of that bone, and, with the coccygæus mufcle, is inferted into the edge of the coccyx and the lower part of the facrum; and before, by the inferior parts of the offa pubis, and the two proceffes that defcend on each fide to join with thofe that rife from the ifchia; by which conjunction the foramen magnum ifchii is formed on each fide.

Whea the body of a woman is reclined backwards, or half-fitting halflying, the brim of the pclvis is horizontal, and an imaginary ftraight line defcending from the navel would pafs through the middle of the cavity; but in the laft month of pregnancy, fuch a line muft take its rife from the middle fpace bctween the navel and fcrobiculus cordis, in order to pafs through the fame point of the pelvis. See the anatomical figures, tab. i. if. xii.

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IN the confidcration of the pelvis, three circumftances are to be principally regarded and remembered ; namely, the width, the depth, and form of the cavity on the infide.

1. The extent of the brim from the back to the forc-part, commonly amounts to four inches and one quartcr; and from one fide to the other, the diftance is fire inches and a quarter; fo that this difference of an inch in the different axes ought to be carefully attended to in the practice of midwifery. See tab. i. But the width of the lower part of the pelvis is the reveric of this calculation, when the os coccygis is prefed backwards by the head of the
child; becaufe, in that cafe, the difance between the coccyx and the lower pare of the os pubis is near five inches; whereas the inferior and pofterior parts of one os ifchium are no more than four inches and a quarter from fome parts of the other. Indeed, the width of the lower part of the pelvis is naturally the fame in both diameters; fo that this difference is occafioned by the yielding of the coccyx in the birth. Yet, though the motion of the os coccygis backward fhould make little odds to the width, the back part of the pelvis, when meafured from the brim, being three times deeper than at the pubes on the fore part, anfwers the fame purpofe as if it were wider from the back to the fore part, than from lide to fide; becaufe, by the time that the child's head is corne down to the lower part of the pelvis, and the forehead turned back to the concavity formed by the os factum and coccygis, part of the os occipitis is come out below the pubes. See tab, ii. xiv, xvii.
2. The depth of the pelvis, from the upper part of the facrum, where it is articulated with the lalt vertebra of the loins, to the lower end of the coccyx, is about five inches in a fraight line; but when this appendix is ftretched outward and backward, the diftance will be more.

The depth from the fides to the brim toward its fore part, to the lover parts of theifchia, is four inches; and from the upper to the lower parts of the offa pubis, where they join, the diftance is no more than two inches; fo that, in the dimenfions of the pelvis, the fide is twice and the back part three times the depth of the fore part.
3. Nor is the form and fhape of the infide of the pelvis to be nieglected by the practitioners of midwifery.

The facrum and coccyx being convex on the outfide, exhibit a concave figure on the infide ; the curve being increafed toward the lower end, fo as that, from the extremity of the codeyx to the middle of the facram, the fweep nearly reprefents a femicircle; and from thence the bone flopes up: ward and forward.

From the upper part of the brim on each fide (but nearer the fore than the back part) to the lower parts of the ifchia, the defcent is perpendicular s and the opening on each fide, betwixt the lower parts of the facrum and the pofterior part of each ifchium; is about three inches deep, and two and an half in width. The upper part of this vacuity on cach fide gives paffage and lodgement to a mufcle, veffels, nerves, \&xc. At its lower part, the cocrygrus mufcle and liganent above mentioned ate ftretched acrofs from bone to bone; and this ligament is on the outfide Atrengthened with another ftrong expanfion; rifing from the tuberofity of the ifchium, and fixed into the edge of the facrum and coccyx. All thefe parts yield and ftretch, forming a concave equal to that of the facrum, when the fore or hind head of the child is pufhed down at the fide and back part of the pelvis.

From the upper to the under parts of the offa pubis, which form the anterior angle of the pelvis, the defcent is almolt perpe adicular, or rather inclining a little backward; fo that the infide of the bafor is bent into a cons cave behind, and defcends in almoft a Itraight line before; while the ilia Mope outward as they rife, and the vertebrex of the loins turn backward making an obtufe angle with the facrum:

On the whole, it is of the utmoft confe uence to know that the brim of the pelvis is wider from fide to fide than from the backs to the f re part; but that, at the under part of the bafon, the dimenfions are the reverfe of this proportion; and that the back pirt, in point of depth, is to the fure part as three to one; and to the fides as three to two.

Though thofe dimenfions obtain in a. well-fhaped pelvis, they fometimes: vary in different women; and the reafon of this remark will be more fully explained, when we treat of the method of delivery, in the different kinds of labours. See tab. i. ii.

## $S E C T$ T.

## OF A DISTORTED PELVIS.

THE pelvis in decrepit women is not always diftorted; becaufe the diftortion of the fpine, in many women, does not happen till the agc of eight, ten, twelic, or fourteen $\%$ when, being tall and Ilender, it is occafioned, by' mifmanagement in their drcfs, lying too much on one fide, and other accident's; withou: having any effect upon the pelvis, the fhare of which is by that time afcertained.

By moft of thofe who have been ricketty in their infincy, whether they continue little and deformed, or, recovering of that difeafe, grow up to be tall fately womer, are commonly narrow and diftorted in the pelyis, and confequently fubject to tedious and dificult labours; for, as the pelvis is more or lefs diftorted, the labour is more or lefs dangerous and difficult.

In ricketty children, the bones are foft and flexible; and as they cannot run about and exercife themfe!ves like thofe of a more hardy make, the pelvis, in fitting uponftools or the nurfe's knees, is, by the weight of the heact and body, often bent and diftorted in the following manner:

The coccyx is preffed inward toward the middle of the cavity of the pclvis; the adjacent or lower part of the facrun is forced outward; while the upper part of the faine bone is turned forward with the lant vertebra of the loins, approaching too near to the upper part of the pubes; fo that the diftance, in fome women, from the back to the fore part of the brim, is not above three inches; in others, no more tran two; and fometimes, though zarcly, not above one inch and a half. See collect. i. No. 3* tab. iiki، xxyii。 xxvili.

In others, the lower vertebra of the loins with the upper cnd of the facrum, jut inward and to one fide; the offa pubis, inflead of being inwardly concave, are fomctimes convex; and the lower part of each ifchium fo near to one another, that the diftance, inftead of four inches and onc quaricr, will not a mount to more than three, and in fome cafes not fo much. See collect. i. No. 4.

Somerimes the vertebree that compofe the farcrum ride one another, and form a large protuberance in that part whicli ought to be coneave; but the moft common cirenmance of ditortion is the jutting foriward of the laft vertebra of the loins with the upper end of the facrum, forming a more acute anglc with the fpine; and in this part of the paffage the head moft commonly ftieks. See collect. £. No. 5 .

## $S E \quad C \quad T . \quad V$.

THE pelvis in women is wider than in men, the inia fpreading more outward, in order to fuftaitand ahow free fpace fo the fretching of the uterus, the facrum is more concave; and the proceffes of the offa pubis, at their junction with the ifchia, are not fo near to one another.

In order to demonftrate the allvantage of knowing the widenefs, depth, and figure of the inflec of a well-formed pelvis, it will he neceffary to afcertain the dimenfions of the heall of the child, and the mamer of its paffage in a natural birth.

The heads of thofe children that have paffed cafily through a large pelwis, as well as of thofe that have been brought by the feet, without laving fuffered any altcration in point of Shape by the uncommon circumlances of the labour; I fay, fuch heads are commonly about an inch narrower from ear to ear, then from the forehead to the under-part of the hindhead.

That part of the head which prefents, is not the fontanel (as was formerly fuppofed) but the face betwcen thefontanel and where the lambdoidal croffes the end of the fagittal future, and the hair of the fcalp diverges or goes off on all fides; for, in mort laborious cafes, when the head is fqucezed along with great force, we find it prefled into a very long oblong form, the longelt axis of which extends from the face to the vertex. From whence it appears, that the crown or vertex is the firft part that is preffed down, becaufe in the general preffure, the bones at that part of the akull make the lcalt refiftance, and the face is always turned upward (fee tab. xxvii. xxviii.) Sometimes, indeed, thislengthening or protuberance is found at a little diftance from the vertex backward or forward, or on either fide: and fometimes (though very feldom) the fontanel, or forehead prefents; in which cafe thcy protuberate, while the vertex is profed and remains quite flat; but thefe twoinfances do not occur more than once in fifty or an hundred cafcs that are laborious.

Now, fuppofing the vertex is that part of the head which prefents itfelf to the touch in the progrefs of its defcent, the fontanel is commonly upward at one fide of the pelvis, and is diftinguifhed by the fontanel, where the coronal future croffes the fagittal, the frontal bones at that part having more acute angles than the parietal; and when the hind-head comes down to the os ifchium on the contrary fide, one may feel the lambdoidal future where it croffes the head of the fagittal, and, unlefs the fcalp be very much fivelled, diftinguife the occiput at its junction with the parietal boncs by the angle, which is more abtufe than thofe that are formed at that part of the Ikull; befides, in this pofition, the ear of the child may be eafily perceived at the os pubis. As the head is forced farther along, the hind-head rifes gradually into the open 〔pace below the offa pubis, which is two inches higher than theifchium, while at the fametime the forehead turns into the hollow of the facrum.

This, therefore, is the manner of its progreffion; when the head firl prefents itfelf at:the brim of the pelvis, the forehead is to one fide, and the hind-head to the other, and fometimes it is placed diagonal in the cavity; thus the wideft part of the head is turned to the wideft part of the pelwis, and the narrow part of the head from ear to car applie. 1 to the narrow part of the pelvis, between the pubes and the facrum. (See tab. xiii. xvi.) The head being fqucczed along the vertcx, defcends to the lower part of the ifchium, where the pelvis becoming narrower at the fides, the wide part of the head can procced no farther in the fane line of direction; but the ifchium being much lower than the offa pubis, the hind-head is forced in below this laft bone, whrre there is leaft rcfiltance. The forchead then turns into the holJow at the lowerend of the facrum, and now again the narrow part of the head is turnce to the narrow part of the pelvis. (Scc tab. xiv, xvii.) The os pubis bcing only two inches doep, the vertex and hind-head rife upward from below it; the forchead prefics back the coccyx ; and the head, rifing upward by degrees, comes out with an half-round turn from below the tharc-bone; the widc part of the head bcing now bctwixt the os pubis and facteccyx, which, being pafhed backward, openy the widen rpace below.
and allows the forehead to rife up alfo with a half-round turn from the under-part of the os externum. See tab. xviii. xix.

From thefe particulars, any perfon will perceive the advantage of remembering that the pelvis at the brim is wider from fide to fide, than from the fore to the back-part, while below it is the reverfe in point of dimenfion; that the pelvis is much fhallower at the os pubis than at the fides and back-part; and that the facrum and coccyx form a large concave in their defcent, whereas that of the os pubis is perpendicular. Neither is it lefs neceffary to confider the form of the head, as above defcribed; for the knowledge of thefe thing; will convey a dittinct idea of the manner in which the head is to be brought along in laborious cafes; on what occafions the ufe of the forceps may be neceffary; and when the method mult be varied, as the form of the head or pelvis may chance to vary from our defeription.

Although the pofition of the head, in natural and laborious births, is commonly fuch as we have obferved, it is not always the fame, but fometimes differs according to the different figures of the pelvis and head, and the pofure of the child in utco : for when the waters are in fmall quantity, or the membranes broke, fo that the body of the child is clofe confined by the womb, if the fore-parts are toward the belly of the mother, that pofition may hinder the head from making the proper turns as it is pufhed down, and the forehead may be forced toward the groin or pubes.See Tab, xx. xxi. Sometimes, even in a well-formed pelvis, if the fontanel prefents itfelf with the forchead to one fide of the brim, and the hindhead to the other, when the head is forced down by the increafing pains, there will be lefs refiftance at the vertex than at any other part; confequently the diameter from the fore to the hind-head will be leffened; and this laft, by accommodating itfelf to the circumftances of the preffure, be firft fqueezed down, and at length come forward in the natural way ; or, fhould the ear prefent itfelf, the vertex will be forced down in the fame manner. But if the forehe d be nearer than the vertex to the middle of the brim of the pelvis, every pain will force it farther down, and when delivered, it will rife in form of an obtufe cone, or fugar-loaf; and in that cafe the crown of the head will be altogether flat. But if, inftead of the vertex or forehead, the fontanel fhould firt appear, the fpace from the forehead to the crown will then rife in form of a fow's back; and in all thefe cafes, the head is brought along with greater difiticulty than in thofe, where the vertex is firl produced : and, in all laborious cafes, the vertex comes down, and is lengthened in form of a fugar-loaf, ninc-and-forty times in fifty inftances. When the forehead prefents, the face is fomerimes preffed forward. See tab. xxii. If the relvis he as wide from the back to the fore-part, as from fide to fide (though this feldom happens) the crown may be purhed down at the pubes, and the forehead afterwards fqueezed into the hollow of the facrum, without making the foregoing turns, If the belly of the child is to the forepart of the uterus, the vertex may be toward the facrum, and the forehead to the pubes or groin: fo that all thefcuncommon pofitions arc attended with difficulty.

## C H A P. II.

## Of the external and internal Parts of Generation proper to. Women.

## $S E C T$

## THE EXTERNAL PARTS AND VAGINA.

THE mons veneris is fituated at the upper part of thepubes, from which alfo begin the labia pudendi, ftretching down as far as the lower edge, where the franum labiorum or fourchette is formed.
The clitoris with its praputium is fou.d between the labia, or midule and fore part of the pubes; and from the lower part of the clitoris, the nymphe rifing, fpread outward and downward to the fides of the os externum, forming a kind of fulcus or furrow, called the foffagago or micuaris, for the direction of the penis in coition, or the finger in touching, into the vagina. See collett. ii. No. 1, 2.

The meatus urinarius is immediately below the under edge of the fymphyfis of the offa pubis, and at the $u$; per part of the osexternum, which is the orifice of the vagina, fituated immediately below the fiid bones of the pubes; the lower edge of which bones is equal to the lower elge of the fenen or fourchette, which bounds the inferior part of the foffamgna and os externum, reitraining it as if with a bridle.

The perinæum extends from this border to the anus, being abont one inch or one and a half in length; the wrinkled part of the anus is about tirreequarters of an inch in diameter; from thence to the coccyx the diftance is about two inches; fo that the whole extent from the fourchette to this bone amounts to about four inches, or four and a quarter.

What remains of the lower part of the pelvis is covered and filled up with the integuments, alipofe membrane, and the muicles levatores ani; while within thefe are contained the mufcles belonging to the clitoris, mouth of the blacider, os externum, and anus.

In young children, there is a thin membrane called the bymen, extended over the lower part of the os externum, reprefonting the figare of a crefcent, the concave and open fide being turned toward the meatus urinarius. In fome, the middle of this concave is attached to the iower part of the meatus, forming two fmall openings; nay, in fome adults this merabrane has entirely mut up the entrance of the vagina, fo that they have been altogether imperforated; but when broke, it recedes, and forms the carunculx myrtiformes. See collect. ii. No. 3, 4, 5 .

On each fide of the meatus urinarius are two finall lacune or openings, the tubes of which, ending in a kind of facculus, come from the proftate gland ; from thefe a thin fluid is ejected in time of copulation, and that from fome women with confiderable furce; and fornetimes, though feldom, to the quantity of feveral drachms.

The urethra in women is about one inch and an half in length. The vagina is formed of a flrong thick membrane, of a fpongy texture, more contracted in virgins than in married women. When fteteched to its full extent, it may he about five, fix, or feven inches long, and two in width, according to the difference of fature in different women; but, when the pterus hangs down in the vagina, the length vill not be more than ewo or
three inches ; and it may be ftretched with the finger to the width of three or four. The infide of it, in young women, is full of rugz, folds or wrinkles, which are partly obliterated in thofe who have boren children.

The upper end of the vagina is joined to the circumference of the lips of the os uteri, which refemble the mouth of a puppy, or tench; and a thin expanfion of this membrane, being reflected inward, covers the exterior part of thefe lips, which in virgins are fmooth and of an oval form. It is alfo continued along the inficie of the uterus, conftituting the internal membrane of the neck and fundus, which is likewife full of plicæ, efpecially in young fubjects. See tab. v. vi.

As to the different names of thofe parts, the book of Schurigius, publifhed at Drefden in the year s 729 , may be confulted. The entry of the vagina is commonly called the $\int p$ bineter vagine, and the mouth of the womb is often diftinguifhed by the appellation of as tincere; but, as the mention of thefe parts will frequently occur in the courfe of this treatife, I Thall, in order to avoid confufion or miftake, call the firl os externum, the other os ibternum, through the whole book.
S E C Y. II.
OF THE UTERUS.

THE uterus is about three inches long from the os internum to the upper part of the fundus, and one inch in thicknefs from the fore to the back part. It is divided into the neck and fundus, the length of the neck being an inch and three quartens, while that of the fundus is one inch and one quarter. The width of the uterus at the neck is about one inch, but at the fundus twice as much. The uterus is fraller in young women.

The outfide fhape of the uterus in fome meafure refembles a flattened sucurbit, or that kind of fpear which hath a long neck.

The canal or entrance from the os internum to the cavity of the fundus uteri, will admit a common director; being a little wider in the middle and more contracted at the upper end.

The cavity of the fundus, is in point of figure fomething between an oval and triangle; one of the angles commencing at the upper end of the forefaid canal, and the other two expanding the fides of the fundus, from which arife the fallopian tubes. Thefe tubes are about three inches long, and fo narrow at their entrance from the uterus, as fcarcely to admit a hog's briftle; but the cavity of each turns gradually wider, and ends in an oper mouth or fphincter, from the brim of which is expanded the fimbria or morfus diaboli, that generally bears the likenefs of jagged leaves, and in fome refembles an hand with nembranous fingers, which is fuppofed to grafp the ovum when ripe and ready to drop from the oyarium.

The uterus is formod firt of the infide membrane that rifes from the va* gin?, and lines all the interior part of the womb. Immediately above this coat is the thick fublance of the uterus, compofed of a plexus of arteries, lymphatics, veins, and nerves; and the vefiels on its furface, when injectcd, feem to run in contorted lines. It appears to be of the fame glandular texture (though not fo compact) as that of the breafts, without any mufcular fibres, except fuch as compofe the coats of the veffels; neither is there any neceffity for that mufcle which Ruyfch pretended to difcover at the fundus, for the convenience of forcing off the placenta; becaufe this cake as frequently adheres to other parts of the womb as to the fundus.

The fubfance of the uterus appears more compact and pale than that of mufcles; or if it be mufcular, at leaft the fibres are more clofe, and more intricately difpofed, than in other mufcular parts. The blood-veffels of the womb, in the virgin or unimpregnated ftate, are very fmall, except juft at their approach to its fides, at the roots of the ligamenta lata. But as foon almoit as they enter its fubftance, they are difperfed into fuch numbers of fmaller branches through the whole, that, when it is cut, we can obferve but few, and thofe very fmall, orifices, much lefs any cavities that deferve the name of finufes. Indeed, when this part is minutely injeited, it feems to be almoft nothing but a mafs of veffels; a circumftance common to it with other parts of the body; and anatomifts are agreed, that the greater number of veffels vifible in fuch nice injections, are thofe through which the ferum or lymplo of the blood eirculates in the living body; whence the error loci in an ophthalmia is imitated by fubtile injections of coloured matter into the arteries of the dead fubject. See tab. v.

When the uterus ftretches in time of geftation, the veffels are proportionally dilated by an increafe of the fluid they contain; fo that, at the time of delivery, fome of them are eapacious enough to admit the end of the little finger. Yet the fubftance of the womb, for the moft part, inftead of growing thinner, as Mauriceau alledges, or thicker, according to $\mathrm{D}_{\mathrm{a}}-$ venter, continues of its natural thicknefs during the whole term of pregnancy; and this equality is maintained by the gradual diftenfion of the veffels that enter into its compofition. In time of labour, indeed, as the waters are difeharged, the utcrus contracts itfelf and grows thicker; and the refiftance ceafing at the delivery of the child and after-birth, it becomes fmaller and fmaller, until it has nearly refumed its natural dimenfions. See collect. iii. No. 1, 2. tab. ix. xii.

For, as the uterus contracts itfelf after parturition, the arterial blood cannot flow into it in the fame quantity as that with which the veffels are filled in their ftate of diftenfion. The fluids are gradually emptied into the vena cava afcendens, but chiefly through the mouths of the veffels that open into the cavity of the womb, and the veffels themfelves that were fretehed, elongated, and feemed to recede from one another, are alfo contracted ly degrees, and that in fuch a direction as to. reduce the uterus into the fame fhape and fize which it bore before impregnation; nay, the fibres are agaii fo compacted, that they, and even the veffels, are farce difa cernible.

The vagina on its outfide is covered with a thick adipofe membrane; by means of which it is on the fore part attached to the lower part of the bladder, and on the back part to the lovier end of the rectum and anus; and by the fame means all thefe parts are connected with the peritonæum, or internal furface of the pelvis.

The uterus is contained in a duplicature of the peritonæum, which envers it every where above, and is counected with its fubftance by a very thin cellular membrane; as for the peritonxum in itfelf, it is a fmonth membranous expanfion, that covers all the infide of the abdomen, and gives external coats to all the vifecta contained in that cavity. On the fore part it lines the mufeles of the abdomen and diaphragma; buekward, it covers the abdominal vifecra in gencral, the aorta and vena cava defcendens, the kidneys, ureters, and fpermatic veffels, the external and internaliliacs, the proas and inufeles that cover the infide of the ilium, whenee it rifes double, and forms the figamenta lata, in which are contained the ovaria
and fallopian tubes. This duplicature, where it meets in the iniddle, envelopes all the uterus, as before vorerved, and gives a covering to the round figaments that rife from cach fide of the fundus uteri, and are inferted or loit about the upper and external part of the pu'bes and groin. The peritonæum is alfo reflected from the fore part ni the uterus over the upper part of the bladder; and upon the bacis p. rt of the uterus it deicends even upon the vagina, from which it is again refleited upward over the rectum. By thefe attachments, efpccially the broal and roand ligaments, the uterus is kept between the vefica urinaria and rectum, loofely fufpended in the vagina, within two or three inches of the osexternam ; the epiploon and intefs tines occupy the upper and fore part of the pelvis, by which means the nterus is prefled downward and backwaid to the lower and concave part of the facrum. See tab. v. fig. 2. As the vefica urinaria fills and itretches with urine, the vifcera are raifed; but as the bladder is emptied, they return; and this is the reafon that the os uteri is commonly felt backward toward the os coccygis. Sometimes it is found tilted to one fide, at other times forward toward the pubes, and the fundus preffed low down on the baek part. 'The os uteri is alfo higher or lower according as the ligaments are more or lefs lax ortenfc. In coition, the uterus yields three or four inches to the prefliure of the penis, having a free motion upward and downward, fo that the reciprocal ofcillation, which is permited by this contrivance, increafes the mutual titillation and pleafure. See tab. v.

The ligaments undergo no extraordinary extenfion in time of uterine geftation, becaufe they fink down two inches with the uterus in an unimpregnated ftate; and when the fundus rifes, they will be raifed, at the fame time, to the height of not only thefe two inches, but as much more, without being fretched in the lealt. Befides, as the uterus rifes ftill upward, the fides of it approach the ilia, from whence the broad ligaments take their origin; and this circumftance is equal to an acquifition of three inches more; fo that upon the whole, thefe lifaments feem to be very little ftretched, even in the latt month of pregnancy.

## $S E C$ T. $I I$.

## OF THE OVARIA, VESSELS, LIGAMENTS, AND FALLOPIAN TUBES.

THE ovaria are two fmall oval bodies, one of which is placed benind each fallopian tubc, fuppofed to be little more than a clutter of ova, whence they derive their prelent mame; for, by ancient authors, they are mentioned by the appellation of the female teiticles. Each ovarium is abont one inch in lengt!, half as broad, and one quarter of an inch in thicknefs ; more convex on the fore thas on the back part, of a fmooth furface, covercd with the peritonxam. See tab. v.

The blood-veflels are, firf, the feermatic arteries and veins, which have nearly the fame origin as thofe in men, are moftly diftributed upon the ovaria and tubes, and at the upper part of the uterus, communicate with the hypogafirics; from the branches of which, the body of the womb is furnimed. All thefe arteries anatomofe, and are fuppofed to detach fmall samifications that open into the cavity of the uterus. The reins are Jarge, communicate one with another, with the hiemorrhoidals and vena portarum, and have no valics.

The ligamenta rotunda are two valeular ropes, compored of veins and arterics inclofed in the duplicature of the liganenta lata, feemingly arifing:
from the crural artery and vein, from whence they are extended to the fides of the fundus uteri.
Thie nerves come from the intercoftals, lunibarcs, and facri, as defcribed in Boerhaave's Inflitutes, and Winfow's Anatomy.

## C H A P. IIİ.

## Of the Catamenia, and Fluor Albus; in an unimpregnated

## State:

## $S$ $E$ $C$ T. .

THE uterus; according to fome, and all the parts fubfervient to generation, arrive at full growth about the age of fifteen. The veffels are then fufficiently dilated, and thofe that end in the cavity of the womb, fo diftended with blood, that their mouths are forced open, they empty themfelves gridually; and for that time the plethora in the uterus, and neighbouring parts, is removed:

Several ingenious theories have been erected, to account for the flux of the monfes, particularly by Doctors Friend, Simpfon, and Aftruc: the two laft of whom, with many others, alledge, that there are finufes in the uterus, furnithed with fide-veffels opening into its cavity; which finufes are gradually ftretched by the blood they receive from the arteries. until the fourth or beginning of the fifth week, when the lateral veffels are forced open, and the accuinulated blood evacuated into the cavity of the womb: But if this was the cafe, the fame mechanifm muft prevail in other parts of the body, through which the like periodical difeharge is made, when the uterus is obftructed; as from the nofe; hairy-fcalp, lungs, ftomach, mefenteric and hæmorrhoidal vcifels, and even through the flein of the legs, and other parts of thie body: Befides, fuch an accumulation in largc finufes, thnugh the blood were not entirely ftagnated, would produce a vifcofity like that which obtains in the rheumatilin and other inflammatory difempers.

Thofe who live in hot climates, are frequently vifited with the menfes at the age of twclve; and women who are kept warm, and live delicately, undergo this difcharge earlier than thofe who ufe a different regimen: and if the catanenia do not flow at the ftated time, the patient is foon after feized with the chlorofis; unlefs fome other evacuation happens in lieu of the menfes.

They commonly ceafe to flow about the age of forty-five, except in thofe with whom they began at twelve, or in fuch as have boren a great many children; in which cafe, they ccafe about the age of two-and-forty; or fooncr.

In young people, the momentum of the circulating fluid is greater than the refifting force of the folids; fo that the veffels continuc to be gradually flretched, until, by their iumber, capacity, and length, this momentum is diffipated, fo as to become no more than equal to the refiliance. About this time the fuperplus of blood begins to be difcharged, and thus the equilibrium is preferved till the age of forty-five, when the fibres growing rigid, the incrementum is leffened, the cvacuation is no longer n: ceffary, nor has the blood force enougiz to make good its wonted pafage into the
cavity of the womb. In the fane manner are produced the fymptoms of old agc.

The catamenia are, therefore, no more than a periodical difcharge of that fuperplus of blond which is collected through the month, and, towards the crifis, attended with pains in the loins, breait, and head, more or lefs acute, according to the circumftances of the plethora; all which complaints gradually vanifh when the menfes begin to appear.

This evacuation commonly continues till the fifth or fixth day, in fome to the third only, and in others to the feventh : the quantity difcharged bcing, according to Hippocrates, two bemine; equal, by the computation of fome, to eighteen or twenty, and in the opinion of others, to twentyfour ounces: but this mutt certainly be a miftake, for they rarely exceed four ounces, except when they flow in too great quantity.

Women that are delicatcly kept, and plentifully fed, have this difcharge more frequently, and in greater quantity, than thofe who are inured to much exercife, or fubject to copious perfiration: yet both thefe conftitutions may be healthy, and ought not to be tampered with by prefcriptions for altering the period or quantity of this evacuation. Indeed, if the flux bc fo frequent or immoderate as to exhautt the frength of the patient, it will be neccflary to prefcribe bleeding before the return of the period; reft, cooling and aftringent medicines, not only taken internally, but likewife applied externally, and injected into the ragina. See collect. iv. No. $1,2$.

On the contrary, if they flow too feldom, in too fmall quantity, or do not appear at all, fo that a dangerous plenitude enfues, the plethora mult be leffened by plentiful bleeding, and repeated purges, and the difcharge follicited by warm baths, fumigation, and exercife. But if the patient has bcen long obftructed from a lentor, vifcofity, and retarded motion of the fluids in the uterus and neighbouring parts, the fullnefs muft be taken off by the above-mentioned evacuations, unlefs the conftitution be already weakcned; then every thing that will gradually attenuate the fluids, and quicken their circulating force, ought to be adminiftered ; fuch as chalybeate and mercurial medicines, together with warm bitter and fomachic ingredients, afifted with proper diet and exercife, according to the preferiptions to be found in Hoffman, Friend's Emmenologia, and Shaw's Practicc of Phyfic. See collect. iv. No. 3.4.

## OF THE FLUOR ALBUS.

THE infide membranc of the uterus, according to Afruc, is thick-fet with fmall glands, which he calls the colatura lactec. Thefe, in an unimpregnated uterus, feparate a mucus that lubricatcs the cavity and canal of the neck, by which meáns the fides are prevented from coalefcing, or growing together. The fluor albus is no other than this mucus difcharged in too great quantity from the uterus, as wcll as from the vagina ; and this exccls, when it happens from plenitude, in thofe who feed plentifully without taking fufficient exercife, is of ten remedied by general evacuation, fuch as venæfection, emetics, cathartics, and a more abftemious diet, with a greater fharc of exercife than ufual. But the cure is more dificult when tle complaint is of long ftanding, and proceeds from a bad habit, the conftitution being wakened by the inordinate difchargc. In this cafe, it will be neceffiry to ufe repeated emetics, gentle exercife, and all trofe medicines that contribute to ftrengthen a lax habit of body ; or, if the difcmper be canccrous, it mult be palliated with anodynes. As to the form
of prefcription in all thefe cafes, Hoffman may be confulted. See colleet. iv. No. 5, 6 .

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THE minutix, or firt principles of bodies, being without the fphere of human comprehenfion, all that we know is by the obfervation of their effects; fo that the modus of conception is altogether uncertain, efpecially in the human fpecies, becaufe opportunities of opening pregnant women, fo feldom occur.

Although the knowledge of this operation is not abfolutely neceffary for the practice of midwifery, an inveltigation of it may not only gratify the curious, but alfo promote farther enquiries; in the courfe of which, many material difcoveries may be made, in the fame manner as many valuable compofitions in chymiftry were found out in the laft century, by thofe who exercifed themfelves in fearch of the philofophers' ftone.
From the time of Hippocrates, to the fixteenth century, it was generally believed that the cmbryo and fecundines were formed by the mixture of the male and female femen in the uterus; but during the laft hundred years, anatomy received great improvements by the frequent diffection of human bodies; and in fome female fubjects, the fæetus was found in one of the fallopian tubcs; in others, it was difcovered in the abdomen, with the placenta adhering to the furface of the vifcera. See collect. v.

Malphigius and others, between the years 1650 and 1690 , wrote exprefsly upon the incubation of eggs, their formation, and the gradual increafe of oviparous animals. The great Harvey obferved the progrefs of the viviparous kind, in a great number of different animals which he had opportunities of openiug. De Graaf diffected near one hundred rabbits, and is very particular and accurate in the obfervations he had made. Ruyfch, Aldes, Needham, Steno, Kerkringius, Swammerdam, Bartholine the fon, and Drelincourt, employed themfelves in the fame enquifies; and in confequence of their different remarks, a variety of theorics have been erected ; yet all of them have been fubject to many objections; and cven the following, though the moft probabie, is fill very uncertain:

When the parts in women, fubfervient to generation, attain their full growth, one or morc of the ova being brought to maturity, that part of the peritonæum which covers the ovarium begins to fretch; the nervous fibres are accordingly affected, and contract themfelves fo as to bring the fimbria of the fallopian tube in clofe contact with the ripe ovum; by which mechanifm, this laft is fqueezed out of its nidus or hulk into the cavity of the tube, through which it is conveyed into the uterus by a vermicular or periftaltic motion; and if it is not immediately impreguated with an animalcule of the male femen, muft be diffolved and loft, becaufe it is now detached from the veffcls of the ovarium, and has no vis vita in itfelf.

The external coat of the oyum is the membrane chorion; one-fourth part of which is the placenta, fuppofed to be the root by which it was formerly joined to the veffels of the ovarium, and the navel-Aring is no other than a continuation of the veffels belonging to this cake.

The chorion is on the infide lined with another membrane called amnion; and both are kept diftended in a globular form by a clear ferous fluid, or thin lymph.

As for the male femen, according to the obfervation of the celebrated Leeuwenhoek, it abounds with animalcula, that fwin about in it like fo
many tadpoles; and thefe are larger and more vigorous the longer the femen hath remained in the vificulx feminales.

The parts of both male and female being thus brought to maturity, the following circumftances are furpofed to happen in coition, efpecially in thofe embraces which immediately follow the evacuation of the menfes:

In the woman, the friction of the penis in the contracted vagina, the repeated proffure and fhocks againf the external parts, the alternate motion upward and downward of the uterus, with its appendages the nvaria, fallopian tubes, and round ligaments, produce a general titillation and turgency; in confequence of which, the nervous fibrils are convulfed, and a fluid ejected from the proftate or analognus glands, as well as from thofe of the uterus and fallopian tubes. The fimbria belonging to one of which, now firmly grafps the ripened ovum, which at the fame inftant is impregnated with the male feed that in the orgafm of coition had been thrown into the uterus, and thence conveyed into the cavity of the tube by fome abforbing or convulfive power. When the two matured principles are thus mingled, one of the animalcula infinuates itfelf into the ovum, and is joined with its bclly to that ruptured part of it from which the navel-ftring is produced; or, entering one of the veffels, is protruded to the end of the funis, by which a circulation is carried on from the embryo to the placenta and membranes. The ovum being impregnated is fqueezed from its nidus or hufk into the tube, by the contraction of the fimbria; and thus difengaged from its attachments to the ovarium, is endowed with a circulating force by the animalculum, which has a vis vite in itfelf: the veffels on the furface of the ovum being opened in confequence of its detachments from the ovarium, abforb the furrounding fluid which is fecerncd by the glands in the cavity of the tube and uterus, or forced into them by motion, heat, and rarefaction, and carried along the umbilical vein for the nourifhment and increafe of the impregnated mafs.

Of the femen that is injected or abforded into the uterus, part is mixed with the fluid fecected by the glands in the canal of the neck, which is blocked up with a fort of gluten formed by this mixture; fo that the ovum is thercby prevented from finking too far down, and being difcharged.

This theory of conception, though very ingenious, and of all others the beft fupported with corroborating confiderations, fuch as, that foctufes and embryos have becn actually found in the cavity of the tube and abdomen, without any marks of exclufion from the uterus; befides other prefumptions that will be mentioned when we cone to treat of the nutrition of the foctus; I fay, notwithfanding the plaufibility of the fcheme, it is attended wilh circumftances which are hitherto inexplicable; namcly, the manner in whicli the animalculum gains admiffion into the ovum, either while it remains in the ovarium, fojourns in the tuhe, or is depofited in the fundus uteri; and the method by which the veffels of the navel-ftring are inofculated with thofe of the animalculum. Indeed, thefe points are fo intricate, that cyery different theorift has farted different opinions concerning them, fome of which are rather jocular than inftructive.

## $\begin{array}{llll}S & E & C & \text { T. III. }\end{array}$

## OF THE INCREASE OF THE UTERUS AFTER CONCEPTION.

IT is fuppofed that the ovum fivims in a fluid, which it abforbs $\mathrm{fo}_{0}$ as to increafe gradually in magnitude till it comes in contact with all the inner furface of the fundus; and this being diftended in proportion to the augmentation of its contents, the upper part of the neck begins alfo to be ftretched.

About the third month of geftation, the ovum in bignefs equals a goofeegg; and then nearly one-fourth of the neck at its uppcr part is diftended equal with the fundus. At the fifth month, the fundus is increafed to a much greater magnitude, and rifes upward to the middle fpace betwixt the upper part of the pubes and the navel; and at that period one-half of the neck is extended. At the feventh month, the fundus reaches as high as the nayel ; at the eighth month, it is advanced midway between the navel and fcrobiculus cordis; and in the ninth month, is raifed quite up to this laft-mentioned part, the neck of the womb being then altogether diftended. See tab. v, vi, vii, viii.

Now that the whole fubftance of the uterus is ftretched, the neck and os internum, which were at firft the ftrongeft, become the weakeft part of the womb, and the ftretching force being ftill continued by the increafe of the foetus and fecundines, which are extended by the inclofed waters in a globular form, the os uteri begins gradually to give way. In the beginning of its dilatation, the nervous fibres in this place being more fenfible than any other part of the uterus, are irritated, and yield an uneafy fenfation; to alleviate which, the woman fqueezes her uterus by contracting the abdominal mufcles, and at the fame time filling the lungs with air, by which the diaphragm is kept down; the pain being rather increafed than abated by this ftraining, is communicated to all the neighbouring parts to which the ligaments and veflels are attached, fuch as the back, loins, and infide of the thighs; and by this compreffion of the uterus, the waters and membranes are fqueezed againft the os uteri, which is of confequence a little more opened. See tab. ix, x, xi, xii.

The woman being unable to continue this effort for any length of time, from the violence of the pain it occafions, and the ftrength of the mufcles being thereby a little exhautted and impaired, the contracting force abates; the tenfion of the os tincx being taken off, it becomes more foft, and contracts a little; fo that the nervous fibres are relaxed. This remiffion of pain the patient enjoys for fome time, until the fame increafing force renews the ftretching pains, irritation, and fomething like a tenefinus at the os uteri ; the compreffion of the womb again takes place, and the internal mouth is a little more dilated, either by the preffure of the waters and membranes, or, when the fluid is in fmall.quantity, by the child's head forced down by the contraction of the uterus, which in that cafe is in contact with the body of the fetus. See tab. xii. xiii. xiv.

In this manner the labour-pains kegin, and continue to return periodically, growing ftronger and more frequent until the os uteri is fully dilated, and the membranes are depreffed and broke; fo that the waters are. difcharged, the uterus contracts, and, with the affiftance of the mufcles, the child is forced along and delivered.

Although this account may be liable to objections, efpecially in thofe cafes when the child is delivered before the full time, it neverthelefs feems more probable than that hypothefis which imputes the labour-pains to the
motion of the child calcitrating the uterus; for it frequently happens that the woman never feels the child ftir during the whole time of labour; and dead children aredelivered as eafily as th ofe that come alive, except when the birth is retarded by the body's being fwelled to an extraordinary fize.

## $S \quad E \quad C \quad T_{0} \quad I V$.

## OF THE MAGNITUDE, WEIGHT, AND DIFFERENT APPELLATIONS GIVEN TO THE OVUM AND CHILD.

WHEN the ovum defcends into the uterus, it is fuppofed to be about the fize of a poppy-feed, and in the third month augmented to the bignefs of a goofe-egg. Ten days after conception, the child (according to fome authors) weighs half a grain; at thirty days is increafed to the weight of twenty-two grains; at three months, weighs betwixt two and three ounces; and at nine months, from ten to tivelve, and fometimes fixteen pounds; by which calculation it would appear that the pragrefs of the foetus is quickeft in the beginning of its growth; for from the tenth to the thirtieth day (according to this fuppofition) it increafes to three-andforty times its weight. All thefe calculations are uncertain.

The conception is called an embryo until all the parts are diftinctly formed, generally in the third month, and from that period to delivery, is diftinguifhed by the appellation of fretus.

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W HEN two or more children are included in the uterus at the fame time, each has a feparate placenta with umbilical cords and veffels; fometimes thefe placentæare altogether diftinct, and at other times they form but one cake.

Yet, by an infance that lately fell under my obfervation, it appears that fometimes twins have but one placenta in common. Whether or not they were two fets of membranes, I could not difcover, becaufe they had been toren off by the gentleman who delivered the woman; but when the artery in one of the navel-1trings was injected, the matter flowed out at one of the veffels belonging to the other; and the communication between them is ftill vifible, though they are feparated at the diftance of three or four inches.

When two children are diftinct, they are called twins, and monfers when they are joined together ; the firit (according to the foregoing theory) are produced when different animalcula impregnate different ova; and the laft are engendered when two or more animalcula introduce themfelves, and are included in one ovum. See tab. x.

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I T was formerly imagined that a woman might conceive a fecond time during pregnancy, and be delivered of one child fome weeks or months before the other could be ready for the world ; but this opinion is now generally exploded; becaufe the ovam fills the whole fundus uteri, and the gelatinous fubfance already mentioned, locks up the neck and os internum, fo as
to hinder more femen from entering the womb and impregnating a fecond ego in any fublequent coition. Wherefore, in all thofe cafes which gave rife to this fuppofition, it may be taken for granted that the woman was actually with child of twins, one of which lying near the os internum, mighe chance to die and mortify, fo as that the membranes give way, and the dead foetus is difcharged, while the other remains in the uterus, and is delivered at the full ime. On the other hand, by fome accident, the firf and largeft may be born fome days or weeks before the full time, and afterwards the os tincx contract fo as to detain the other till the due period. At other times the child that lies next to the fundus is the fmalleft, and follows after the birth of the other, fometimes dead and putrified, and fometimes in an emaciated condition. See collect. vi.

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AMISCARRIAGE that happens before the tenth day was formerly called an efflux, becaufe the embryo and fecundines are not then formed, and nothing but the liquid conception or genitura is difcharged. From the tenth day to the third month, it was known by the term expulion, the embryo and fecundines being ftill fo fmall that the woman is in no great danger from violent flooding.

If fhe parted with her burthen betwixt that period and the feventh month, The was faid to fuffer an abortion; in which cafe the underwent greater danger, and was delivered with more difficulty than before; becaufe the uterus and veffels being more diftended, a larger quantity of blood was loft in a Thorter time, the fœetus was increafed in bulk, and the neck of the womb is not yet fully ftretched; befides, fhould the child be born alive, it will be fo fmall and tender that it will not fuck, and fearce receive any fort of nourifhment.

When delivery happens between the feventh month and full time, the woman is faid to be in labour. But, inftead of thefe diftinctions, if the lofes her burthen at any time from conception to the feventh or eighth, or even in the ninth month, we now fay indifcriminately, the has mifcarried.

Hippocrates alledges that a child born in the feventh month, fometimes lives; whereas if it comcs in the eighth, it will probably die; becaufe all healthy children, fays he, make an effort to be delivered in the feventh month; and if they are not then born, the nifus is repeated in the eighth, when the child muit be weakened by its former unfucceffful attempt, and therefore not likely to live; whereas, fhould the fecond effort be deferred till the ninth, the foetus will by that time be fuficiently recovercd from the fatigue it had undergons in the feventh. Experiencc, however, contradicts this affertion; for the older the child is, we find it always (cateris paribus) the ttronger, confequently the more hardy and eafily nurfed, neither is therc any fufficient reafon for adhering to the opinion of Pythagoras on this fubjeet, who declares that number eight is not fo fortunate as feven or ninc.

The common term of pregnancy is limited to nine folar months, reckoning from the laft difchargc of the catamenia; yet in fome, though very few, uterine geftation exceeds that period; and as this is a poffible cafe, we ought always to judge on the charitable fide, in the perfuafion that it is better fevcral guilty perfons fhould efcapc, than onc innocent perfon fuffer in point of reputation. See collect. vii.

## $S E C$ T. VIIT.

## OF FALSE CONCEPTIONS AND MOLES.

ITwas formerly fuppofed, that if the parts of the embryo and fecundines were not feparated and diftinctly formed from the mixture of the male and female femen, they formed a mafs; which, when difcharged before the fourth month, was called a falfe conception; if it continued longer in the uterus fo as to increafe in magnitude, it went under the denomination of a inold. But thefe things are now to be accounted for in a more probable and certain manner. Should the embryo die (fuppofe in the firf or fecond month) fome days before it is difcharged, it will fometimes be entirely diffolved; fo that when the fecundines are delivered, there is nothing elfe to be feen. In the firf month the embryo is fo fmall and tender, that this diffolution will be performed in twelve hours; in the fecond month, two, three, or four days will fuffice for this purpofe; and even in the third month, it will be diffolved in fourteen or fifteen; befides, the blood frequently forms thick lamina round the ovum, to the furface of which they adhere fo ftrongly, that it is very difficult to diftinguifh what part is placenta, and what membrane. Even after the embryo and placenta are difcharged in the fecond or third month, the mouth and neck of the womb are often fo clofely contracted, that the fibrous part of the blood is retaiued in the fundus, fometimes to the fifth or feventh day; and when it comes off, exhibits the appearance of an ovum, the external furface, by the ftrong preffure of the uterus, refembling a membrane; fo that the whole is mittaken for a falfc conception.

This fubftance, in bignefs, commonly equals a pigeon or hen-egg; or if it exceeds that fize, and is longer retained, is diftinguifhed by the appellation of mzola; but this laft generally happens in women betwixt the age of forty and fifty, or later, when their menfes begins to difappear ; fometimes from external or internal accidents that may produce continued floodings. If the catamenia have ceafcd to flow for fome time in cldcrly women; and return with pain, fuch a fymptoin is frequently the forerunncr of a cancer ; before or after this happens, fomctimes a large Hefh-like fubftance will be difcharged with great pain, refembling that of labour; and $u_{r}^{r}$ on examination, appears to be no more than the fibrous part of the blood; which affumcs that form by being long preffed in the uterus or vagina: See colle?. viii.

In this place it will not be amifs to obferve, that the glands of the uteruṣ and ragina will fometimes increafe and diftend the adjacent parts to a furprifing degree. If, for cxample, one of the glands of the uterus be fo obftructed as that there is a preffure on the returning vein and excretory duct, the arterial blood will gr duaily ftretch the fmaller veffels, and confequently increafe the fize of the gland, which will grow larger and larger; as long as the force of the impelled fluid is greater than the refiftance of the veffels that contain it; by which means a very finall gland will be enlarged to a great bulk; and the utcrus gradually ftretched as in utcrine geftation, though the progrefs may be fo flow as to be protracted for ycars inftead of months. Nererthelefs the os internum will be dilated, and the gland (if not too large to pafs) will be fqueezed into the vagina, provided it adhicres to the utcrus, by a fmall neck; nay, it will lengthen more and more, fo as to appear on the outfide of the os externum ; in which cafe it may be eafily feparated by a ligature. This difcafe will be the fooner known and cafier remedied, the lower its origin in the uterus is. But fhould the gland
take its rifc in the vagina hard by the mouth of the womb, it will fhew itfelf fill fooncr; and a ligature may be eafily introduced, provided the tumour is not fo large as to fill up the cavity, and hinder the neck of it from being commodioufly felt. Though the greateft difficulty occurs when the gland is confined to the uterus, bcing too much enlarged to pafs through the os internuin.

Sometimes all or moft of the glánds of the uterus tire thus affected, and augment the womb to fuch a degree, th it will weigh a great many pounds, and the woman is deftroyed by its preffure upon the furrounding parts; but fhould this indolent fate of the tumour be altered by any accident that will produce irritation and inflammation, the parts will grow fcirrhous, and a cancer enfue.

This misfortune for the mof part happens to women when their menAtrual evacuations leave them; and fomctimes (though feldom) to childbearing women, in confequence of fevere labour.

Some people have affirmed that the placenta, being left in the uterds after the delivery of the child, grows gradually larger. But the contrary of this affertion is proved by common practice; from which it appears, that the placenta is actually preffed into fmaller dimenfions, and fometimes into. a fubftance almult demi-cartilaginous; for, after the death or delivery of the child, the fecundincs receive no farther increafc or growth. Dropfies and hydatides are allo fuppofed to be formed in the utcrus, and difcharged from thence togcther with air or wind: The ovaria are fomctimes affected in the fame manner, are inflamed, impoflumate, grow fcirrhous, cancerous; and the patient is deftroyed by the difcharge which gradually fills the abdomen with pus and ichor; fo that all thefe complaints, if known, ought to be obviated in the beginning: See collect. ix.

## $S E \quad C$ T. IX.

## OFTHE PLACENTA AND MEMBRANES.

IHAVF already obferved, that the ovum is formed of the placenta with the chorion and amnion, which are globularly diftended by the inclofed watcrs that furround the child. The placenta is commonly of a round figure, fomewhat refembling an oat-cake, about fix inchcs in diameter, and one inclu thick in the middle, growing a little thinner towards the circumference; it is compofed of veins and arteries, which are divided into an infinite number of fmall branches, the venous parts of which unite in one large tule, called the umbilical reim, which brings back the blood, and is fuppofed to carry along the nutritive fluid from the veffels of the chorion and placenta, to the child, whofe belly it perforates at the navel ; from thence paffing into the hiver, where it communicates with the vena portarum and cava. It is furnifhed with two arterics; which arife from the interaal iliacs of the chill, and running up on each fide of the bladder; perforate the belly where the umbilical vein entered; then they proceed to the placenta, in a fpiral linc, twining around the vein, in conjunction with which tlicy form the funiculus umbilicalis, which is commonly four or five hand-breadths in length, fometimes only two or three, and fometimes it extends to the length of eight or ten. The two arterics, on their arrival at the inner furfacc of the placenta, are divided and fubdivided into minute branches, which at laft end in fmall capillarics, that inofculate with the veids of the fame order. Thefe arteries, together with the umbilical vein, are
fuppofed to do the fame office in the placenta which is afterwards performed in the lungs by the pulmonary artery and vein, until the child is delivered and begins to breathe; and this opinion feems to be confirmed by the following experiments:-If the ehild and placenta are both delivered fuddenly, or the laft immediately after the firlt, and if the child, though alive, does not yet breathe, the blood may be yet felt circulating fometimes flowly, at other times with grear force, through the artcries of the funis to the placenta, and from thence back again to the child, along the umbilical vein. When the veffels are flightly preffed, the artcries fwell between the preffure and the child, while the vein grows turgid between that and the placenta, from the furface of which no blood is obferved to flow, although it he lying in a bafon among warm water. As the child begins to breathe, the eirculation, though it was weak before, immediately grows flronger and Atronger; and then in a few minutes the pulfation in the navelIfring becomes more languid, and at laft entirely ftops. Jf after the child is delivered, and the navel-ftring cut, provided the placenta adheres firmly to the uterus, which is thereby kept extended ; or (if the womb is fill.diftended by another child) no more blood flows from the umbilical veffels than what feemed to be contained in them at the inflant of cutting; and this, in common cafes, does not exceed the quantity of two or three ounces. And finally, when, in confequence of violent floodings, the mother expires either in time of delivery or foon after it, the child is fometimes found alive and vigorous, efpecially if the placenta is found; but if toren, then the child will lofe blood as well as the mother.

The external furface of the placenta is divided into feveral lobes, that it may yield and conform itfelf more commodioully to the inner furface of zlie utcrus, to which it adheres, fo as to prevent its being feparated by any fhock or blows upon the abdomen, unlefs when violent.

Thefe groups of veins and atteries which enter into the compofition of the placenta, receive external coats from the chorion, which is the outward mombrane of the ovuin, thick and flrong, and forms three-fourths of the external globe that contains the waters and the child, the remaining part being covered by the placenta; fo that thefe two in conjunction confritute the whole external furface of the ovum. Some indeed alledge, that thefe are enveloped with a cribriform or cellular fubtance, by which they feem to adherc, by contact only, to the uterus; and that the inncr mambrane of the womb is full of little glands, whofe excretory ducts, opening into the fundus and neck, fecrete a foft thin mucus (as formerly obferved) to lubricate the whole cavity of the uterus, which beginning to ftretch in time of geftation, the veffels that compofe thefe glands are alfo ditended; confequentlya greater quantity of this mucus is feparated and retaincd in this fuppofed eribriform or cellular fubflance, the abforbing veffels of which, take it in and conver it along the veins for the nouriminent of the child. 'fhe womb heing thercfore dittended in proportion to the increafc of the ciild, thofe glands are alfo proportionally enlarged ; by which means a larger quantity of the flaid is feparated, becaufe the numment of the child muft be augmented in proportion to theprogrefs of its growth; and this liquor undergoes an alteration in quality as well as quantiny, being elhanged from a clear thin fluid into the more vifcous confiftence of milk. In fome cafes, this mucus hath been difcharged from the uterus in time of pregnaney, and both mother and child we kened hy the cracuation; which may be occafioned by the chorion adhering too loofely, or being in onc part actually feparated from the womb.

Formerly, it was taken for granted by many, that the placenta always adhered to the fundus uteri. But this notion is refuted by certain obfervations; in confequence of which we find it as often ficking to the fides, back, and fore parts, and fometimes as far down as the infide of the os uteri. See tab. v, vi, viii, ix, $x$, xi, xiii.

- When the placenta is delivercd, and no other part of the membrane toren except that through which the child paffed, the opening is generally near the edge or fide of the placenta, and feldom in the middle of the membranes; and a hog's blader being introduced at this opening, and inflated, when Iy ing in water, will fhew the fhape and fize of the inner furface of the woonb, and plainly difcover the part to which the placenta adhered.
The chorion is, on the mfide, lincd with the amnion, which is a thin tranfparcnt membrane, without any vcffels fo large as to admit the red globules of blood; it adheres to the chorion by contact, and feems to form the external coat of the funis umbilicalis.

This membrane contains the ferum in which the child fwims; which fluid is fuppofed to be furnifhed by lymphatic veffels that open into the inner furface of the amnion. If this liquid is neither abforbed into the body of the foctus, nor taken into the fomach by fuction at the mouth, there muft be abforbing veffels in this membrane, in the fame manner as in the abdomen and other cavities of the body, where there is a conftant renovation of humidity.

The quantity of this fluid, in proportion to the foetus, is much greater in the firft than in the laft month of geftation, being in the one perhaps ten times the weight of the embryo, whereas in the other it is commonly in proportion of one to two ; for fix pounds of water furrounding a fretus that weighs twelve pounds, is reckoned a large proportion, the quantity being often much lefs; nay, fometimes there is very little or none at all.

In molt animals of the brute fpecies, there is a third membrane, called allantois, which refembles a long and wide blind-gut, and contains the urine of the fectus. It is fituated between the chorion and amnion, and communicates with the urachus that rifes from the fundus of the bladder, and runs along with the umbilical veffels, depofiting the urine in this sefervoir, which is attached to its other extremity. This bag hath not yet been certainly difcovered in the human feetus, the urachus of which, though Ilainly perceivable; fecms hitherto to be quite imperforated.

From the foregoing obferyations upon nutrition, it feems probable, that the foetus is rather nourifhed by the abforption of the nutritive fluid into the reffels of the placenta and chorion, than from the red blood circulated in full Atrcam from the arteries of the uterus to the veins of the placenta, and returned by the arterics of the laft to the veins of the firt, in order to be renewed, refined, and made arterial blood in the lungs of the mother.

Yet this doctrine of abforption is clogged with one objection, which hath never been fully anfwercd; namicly, that if the placenta adheres to the lower part of the utcrus, when the os internumbegins to be dilated, a flooding immediately enfues; and the fame fymptom happens upon a partial or total feparation of the placenta from any other part of the womb; whereas no fuch cunfequence follows a feparation of the chori $n$.

The new theorifts indeed obferve, that there is no nec ffity for a fupply of red blood from the mother; hecaufe the circulating force in the veffels of the fartus produces heak and motion fufficient to endue the fluids with a fanguine colour; that neither is there occafion for returning and refining this blood in the lungs of the moher, becaufe that
office is fufficiently performed in the placenta, until the foetus is delivered, when its own lungs are put to their proper ufe; and laftly, that the blood of the mother is too grofs a fluid to anfiver the occafions of the foctus. Certain it is, the chick in the egg is nourifhed by the white which is forced along the veffels, and the quantity of red blood increafes in proportion to. the growth of the contained cmbryo or foetus, without any fupply from the hen.

On the whole, the opinions broached upon the nutrition of the embryo and fæotus in utero have been various, as well as thofe that are adopt: el concerning the modus of conception.

## B O O K II.

## C H A P. I.

Of the Difeafes incident to pregnant Women: which if not carefillly prevented or removed, may be of dangerous Confequence both to Mother and Child.

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## OF NAUSEA AND VOMITING.

THE firf complaint attending pregnancy, is the naufea and romiting, which in fome women begin foon after conception, and frequently continue till the end of the fourth month. Moft women are troubled with this fymptom more or lefs, particularly vomiting in the morning. Some who have no fuch complaint in one pregnancy, fhall be violently attacked with it in another; and in a few, it prevails during the whole time of uterine geftation.

The vomiting, if not very violent, is feldom of dangerous confequence ; but, on the contrary, is fuppofed to be ferviceable to the patient, by unloading the foniach of fuperfluous nourifment, thercby carrying off or preventing too great a turgency in the veffels of the vifcera and uterus; and by creating a kind of fraining or nifus in the parts, which will affint the fundus and neck of the womb in fletching. Neverthelefs, if the ftraining is too great, it may endanger a inifcarriage.

Perhaps this complaint is occafioned by a fulnefs of the veffels of the uterus, owing to obfrucled catamenia, the whole quantity of which cannot as yet be employed in the nutrition of the embryo; over and above this caufe, it has been fuppofed that the uterus being ftretched by the increafe of the ovum, a tenfion of that part enfues, affecting the nerves of that vifcus, efpecially thofethat arife from the fympathetici inaximi, and communicate with the plexus at the mouth of the ftomach. Whatever be the caufe, the complaint is beft relieved by bleeding inore or lefs, according to the plethora and furength of the patient; and if fhe is coftive, by emollient clyfters and opening medicines, that will cvacuate the hardened contents of the colon and rectum; fo that the vifcera will be rendered light and caly, and the fretching fulnefs of the veffels taken off. A light,
nutritive, and fpare diet, with moderate exercife, and a free open air, will conduce to the removal of this complaint. See collect. x. No. r.

## S E C T. II.

OF THE DIFFICULTY IN MAKING WATER; COSTIVENESS; SWELLING OF THE H/EMORRHOIDS, LEGS, AND LABIA PUDENDI; AND THE DYSPNGEA AND VOMITING AI THE LATTER END OF PREGNANCY.

TOWARDS the end of the fourth month, or beginning of the fifth, the uterus is fo much diftended as to fill all the upper part of the pelvis, and then begins to rife upward into the abdomen; about the fame time the os internum is likewife raifed and turned backward toward the facrum, becaufe the fundus is inclined forward in its rife. The uteris, according to the diffcent dircetions in which it extends, produces various complaints by its weight and preffure upon the adjacent parts, whether in the pelvis, or highcr in the abdomen. In the fourth or fifth month, it preffies againft the fplincter of the bladder in the pelvis, and produces a difficulty in making water, and fometimes (though feldom) a total fuppreflion. This complaint will happen, if the womb is funk too low in the vagina; or if the ovum, inftead of adhering to the fundus, defcends into the wide part in the middle of the neck, which accordingly undergoes ditenfion. This difpofition of the ovum is frequently the caufe of abortion, becaufe the mouth and neck being in this cafe, from the ftretching, the weakeft part of the uterus, the os internum begins to be opened too foon: yet fometimes this will continue ftrong and rigid; and after the neck is enlarged, the fundus will be, laft of all, ftretched to the end of gettation, and the woman be happily delivered.

This is one probable reafon to account for the placenta fometimes adhering over the infide of the mouth of the womb, and helps to fupport the theory of the reck turning fhorter and fhorter as the full time approaches.

But, as the ftretching begins lower down in this than in a common cafe, the uteras muft confequently prefs againft all parts of the pelvis before it can rifc above the brim ; and this preffure fometimes produces an obftruction of urine and difficulty in going to ftool; the general compreffion of all thcfe parts, will be attended with a degree of inflammation in the fubflance of the uterus, the vagina, mouth of the bladder, and rectum; from whence violent pains and a fever will enfue. In order to remove or 2lieviate thefe fymptoms, recourfe muft be had to bleeding and clyiters, the urine muft be drawn off by the catheter, fomentations and warm haths be ufed, and this method occafionally repeated until the complaints abate; and they comnionly vanifh in confequence of the womb rifing higher, fo as to be fupported on the brim of the pelvis. See collect. x. No. 2. and tab. vi. fig. 2.

By the preffure of the uterus upon the upper part of the rectum and lower part of the colon, where it makes femicircular turns to the right and left, the freces are hindcred from pafing, and by remaining too long in the guts arc indurated, the fluid parts being abforbed. Hence arife violent ftraining at flool, and a compreffion of the womb, which threatens abortion. Whers the paticnt therefore has laboured under this fymptom for feveral days, let emollient, laxative, and gently-ftimulating clyfters be injected. But if the rectum le fo obftructed as that the injection cannot pafs, fuppofitorics are firf to be introduced; for frequently, when the colon and rectum are compreffed by the $\mu$ terus, the periftaltic motion
is weakencd and impeded, fo that the guts cannot expel their contents ; in which cafe, the fuppofitory, by irritation, quickens this faculty, and in difolving, lubricates the parts, the reby facilitating the difcharge of the hardened fxecs. This previous meafutc being taken, a clyfter ought to he injected, in order ta diffolve the collected and indurated contents of the colon, as well as to lebricate and ftimulate the infide of that inteftine, fo as to effct a general evacuation; and for this purpofe, a fyringe fhould be ufed inftear of a bladder, that the injection may be thrown up with greater cfficacy and forcc.

Thefe clyiters ought to be repeated until the hardened feces are altogcther brought away, and the laft difcharge appears of a foft conffftence. Neither ought the preferiber to trult to the reports of the parient or nurfe, but to his own finfes, in cxamining the effects of thefe injections; for, if the conplaint has continucd feveral days, a large quantity of indurated freses ought to be difcharged. To avoid fuch in. convenicnce for the future, an emollient clyiter muft be injected evcry fecond night; or, if the patient will not fubmit to this method, which is certainly the cafieft and beft, recourfe muft be had to thofe kenients mentioned at the latter end of this fection. For when the fæecs are long retained, the air rarefies, cxpands, and ftretches the colon, producing fevere colic fains; this being the method followed by nature, to difburthen herfelf when fhe is thus cncumbered. Scc collcet. $x . N o$. and tal., vi. fig. 2.

The prefure of the uterus upon the hemorrhoidal and internal iliac veins, producesaturgency and tumcfaction of all the parts below, fuch as 1tic pudenda, vagina, anus, and cven the os internum and neck of the womb. "Shis turcfaction of the hæmorrhoidal weins, appears in thofe fwellings at the infide andoutfide of the anns, which areknown by the name of the external and internal hæmorthoids, or pilcs. This is a complaint to which women arc naturally more fubjef than the other fex; but it is aiways more violent at the time of pregnancy, when the fame mothod of cure may be adminitered as that practifed at other tinces, though greater caution mult he ufed in applying leeches to the parts; becaufe, in this cafe, a grcat quantity of blood may be loft before the difcharge can be reftrained. See collect. x. No. 3.

About the latter end of the fifth or in the beginning of the fixth month, the uterus being ftretchod above the brim, and the fundus raifed to the middle fpace betwixt the os pubis and navel, is confiderably increafed in weight ; and even than (though much more fo ncar the full time) lies f.cavy upon the upper part of the brim, prefics upon the vertebre of the lins and ofra ilia, and, riiing till higher with an augmented force, gradually ftrctches the parietes of the abdomen, puining the inteltines upwards and to each fide.

The wecight and preffurc on the external iliac veins are attended with a, furchargc or fullnefs in the returning veffels that comc from the fect, legs, and thighs; and this tumefation produces cedcmatous and inflammatory fwellings in thefe parts, togcthcr with vaicous tumours in the veins, that fometimes come to fuppuration.

The fame weight and preffurc occafion pains in the belly, back, and loins, cfpecially towards the end of the eighth or in the ninth month. If the urerus rifes ton high, a dyfpnoa or difficulty of breathing, and frequent vomitings, enfue; the firt procicds from the confinement of the ust ad diaphragm in refpiration, the liser and vifcera of the abdomen
being forced up into the thorax ; and the lat is occafioned by the extraordinary preflure upon the ftomach. Sce collect. x. No. 4.

All the complaints above defcribed, namely, fwelling of the legs, thighs, and labia pudendi, pains in the back, loins, and belly, with dy fincoa and vomiting, arc removed or palliated by the following me-thod:- The patient, if fhe can bear fuch cvacuations, is gene ally reFiered by bleeding at the arm or ancle, to the amount of cight or ten ounces; but the quantity muth be proportioned to the emergency of the cafe; the belly muft be kept open and caly with cmollient clytters and laxative mediciues, fuch as a fipoonful or two of a mixture compofed of equal parts of ol. amygd. d. and fyr. violar. taken every night; or from two drachms to half an ounce of manna, or the fame quantity of lenitive electuary; a finall dofe of rhuburb, or five grains of any opening pill, unlefs the paticnt be troubled with the hemorrhoids, in which cafe all aloetic medicines ought to be avoided. The patient muft not walk much, or undergo hardexercife, but rcft frequently upon the bed, and lie longer than ufual in the morning. When the fwelling of the legs is moderate, and only returns at night, rollers or the laced itocking may be ferviceable ; but when it extends in a great degree to the thighs, labia pudendi, and lower part of the belly, in a woman of a full habit of body, venafection is neceffary, becaufe this odematous fwelling procecds from a compreffion of the returning veins, and not from laxity, as in the anafarca and leucophlegmatic conftitutions. Here moderate exercife, and (as I have already obferved) frequent refting on a bed or couch, is beneficial; or if the fin of the leg and pudcnda is exreffively ftretched, fo as to be violently pained, the patient will be greatly relieved by puncturing the parts occafionally. But thefe complaints cannot be totally removed till delivery, after which they commonly vanifh of themfclves.

The bellies of thofe that are indolent and ufe no exercife, ought to be moderately comprefied, fo that the uterus may not rife too high, and accafion difficulty in breathing, and vomiting, in the laft months; but they muft not be too ftraitly fwathed, left the womb fhould be determined, in ftretching over the pubes, and produce a pendulous bolly, which is often the caufe of dificult labours. A medium ought, therefore, to be preferved in this article of comprefing, and no woman lace her jumps or ftays fo as to make herfelf uneafy; while the diet, air, and exercife, ought to be regulated according to the conititution, cuftom, and complaints of the patient.

## C H A P. II.

Difeufes incident to Pregrant Women, continued. $S \quad E \quad C \quad T . \quad I$.
OF THE STONE IV THE KIDNEYS AND BLADDER.

wOMEN are frequently aflictcd with fmall fones and gravel in the kidncys, being jefs fubject than men to this complaint in th:e bladder, becaufe their urcthras are fort and wide, and fuffer the calculnus concretions to pafs with the urinc more cafily:

In pregnancy, it is often difficult to dititinguifn gravelly pains from thofe then are feit in the fmall of the back and loins, proccediag from the prefiure of the utcrus upon thefe parts. In both cafes, when the
pains are violent; the urine is high-coloured; and the difference is, that in the gravel a quantity of fand generally falls to the bottom; though the fediment commonly depofited by high-coloured urine, is often mittaken for grayel ; a miftake, however, which is the lefs material, tecaufe both complaints are relieved by the fame method, namely, venæfection, emollient elyfters, cmulfions, with gum arabie, infufions of althea, fem. lini, and opiates, and an applieation of emplaft. roborans to the baek.

Pains in the loins and belly, extending to the falfe ribs; oeeafioned by the ftretching of the uterus, are eafed by rubbing and anointing the parts every night, before the fire, with emollient unguents, fueh as that of althea, \&c.

In pregnant women, the complaints from a ftone in the bladder (which is fometimes, though feldom, the cafe) are to be treated in the fame manner as at any other time; except that, when the patient is near delivery, it is not advifable to endeavour to extract it, left the operation fhould be attended with an inflammation of the urethra and vagina: If therefore the ftone fhould be rough, angular, or furrounded with fharp prickles, the woman fuffers greatly from the preffure of the uterus upon the bladder, efpecially in time of labour, when the membranes are broke, and the head of the child is pufhed into the upper part of the pelvis; beeaufé the fone is then preffed before it, upon the neck of the bladder, fo as to oceafion exquifite torture, and infallibly retard the labour-pains. If the ftone hath defcended into the meatus urinarius, perhaps it may be eafily extracted; but if it ftill remains within the bladder, the only way of relieving the patient is by introducing a eatheter, alfo one or two fingers in the vagina, to pufly up the fone above and behind the head of the child; or, if this camnot be done, to turn and deliver by the feet, before the head is preffed too far down in the pelvis. See collect. xi. No. 1.

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## OF HERNIAS OR RUPTURES.

WOM F N are alfo afflifted with ruptures in different parts, fuel a the navel, groin, and pelvis; but as the uterus in time of geflation fretches higher and higher, the omentum and inteftines are prefled more and more upward and to each fide; and about the fifth or fixth month, the womb rifes fo high, that the inteitine eannot defcend into the groin, and the rupture in that part ceafes for the prefent. About the eighth month, the utcrus is fo high adranced, that the inteftine or cpiploon is kept from pufhing out at the navel, confequently the umbilical hernia is likewife fufpended till after deiivery; but this will not happen in either cafe, unlefs the rupture be of that kind which fuffers the omentum and inteftine to be eafily reduced.

Women are alio fubject to ruptures of the umbilicus, and thofe of the groin moff incident to the other fex; but there is a third kind peculiar to Yomen, thongh it rarely happens even in them; this is produced from the intefline falling down betwixt the back part of the uterus and vagina, and the fore part of the rectum. The peritonæum defcends mech lower in this place than at the anterion defcent, where it covers the upper part of the bladder, or at the fites of the pelvis, where it forms the liganenta lata; for it reaches to within ene or two inclies of the perinenm; and the inteflines prefing it farther down, or burfing it in this part, are pufhed out in the form of a lerge tumour, at the fice of the perinxum, betwixt the lower part of the ichium and ececy $x$. The gut being fo fituated in time of labour,
when the child's head is fqueezed into the pelvis, may fuffer Atrangulation, if the cafe fhould prove lingering and tedious, and the preffure continue for any length of time. In order to preyent or remedy this accident, let the os externum be gradually opened with the land, which being introduced in the vagina, fhould raife,the child's head, fo as to fuffer the inteftine to be pufhed above it, by the affiftance of the other hand; which preffes upon the outfide; in this manner, both hands may be ufed alternately, till the purpofe be effected; or, fhould this method fail to reduce and retain the inteftine, the child muft be delivered with the forccps, or turned and brought by the feet, as we have directed in the cafe of a flone in the bladder. The ruptures of the umbilicus and groin may be reftrained anid kept up by proper compreffion, but it is very; difficult to contrive an effectual bandage for the defcent in the perinxum. See colleet. xi. No. 2 。

## S E C $T_{0}$ III. <br> OF D R O P. S I E S

DIFFICULTY in breathing, in pregnant women, may be occafioned by collections of matter in the chelt or thorax, as weil as in the abdomen; from abfeefes in the vifcera co-operating with the preffure of the uterus üpon the organs of refpiration ; thefe complaints (which are generally fatal) muft be treated by the fame mothod in pregnancy which is ufed at other simes. The cavity of the abdomen is alfo fubject to an afcites or droply; with or without hydatides, which in conjunction with the fretching uterus, may diftend the belly to a prodigious fize, producing great opprellion and anxiety. Here too, the common method of curing or palliating dropfres muft be ufed; with this difference, that the purging medicines are to be cautioufly prefrribed. See collect xi. No. 3:

But this diforder is not fo incident to pregnant women as the anafarca; which is a dropfy of the cellular membrane, that extends over the whole furface of the body, enveloping every individual murcle; veffel, and fibre. This difeafe is the effect of univerfal laxity and wealknefs, and, if not timely obviated, may endanger the patient's life, being fometimes attended with a fatal rupture of the utcrus in tinc of labour; in order to prevent whhich cataftrophe, every thing ought to be prefcribed in point of diet, medlcine; and exercife, which may cointribute to frengthen the folids and quicken the circulation. Let her, for example, take repeated dofs of the confect. cardiac. drink moderate quantities of ftrong wine, in which the warm fipices have been infufed, eat no meat but fuch os is roaftcd and high-feafoned, and abftain altogether from weak diluting fluids, fuch as fmall-beer and watcr.

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OF INCONTINENCE OF URINE AND DIFFICULTY IN MAKING WATER, AT THE LATTER END OF PREGNANCY, AND IN TIME OF LASOUR.

THE vefica urinaria, in pregnant women near their full time; is often fo much preffed by the uterus, that it will contain but a very fmall quantity of water; a circumflance, though not dangerous, extremely troubleforne, cfpecially when attended with a vomiting or cough ; In which cafe, the fraining forces out the watcr involuntarily, with great violence. The cough may be alleviated by proper remedics, but the vomiting can feldom
be removed. Sometimes a bandage applied round the lower part of the belly, and fupported with the fcapular, is of fingular fervice, particularly when the uterus lies penduluus over the os pubis, thereby compreffing the urinary bladder.

But this complairt is not of fuch dargerous confequence as a difficulty in making water, or a total fupprefion, which (as we have already obferved) happens, though very feldom, in the fourth or beginning of the fifch month of pregnancy; but moft frequently occurs in the tine of labour, and after delivery. In the beginning of labour, before the membranes are broke, and the head of the child funk into the paffage, the woman commonly labours under an incontinence of urine from the preffure upon the bladder; but the membranes being broken, and the waters difcharged, the uterus contracts, and the child's head is forced down into the pelvis, where, if it continues for any length of time, the urethra and fphincter vefica are fo compreffed that the urine cannot pafs; while the preffure on the other parts of the bladder, being removed in confequence of the diminifhed fize of the uterus and the laxity of the parietes of the abdomen, the vefica urinaria is the more eafily ftretchod by the increafing quantity of urine, which diftends it to fuch a degree, that the fibres are over-ftrained; and after delivery, when the preffure is removed from the fphincter and meatus urinarius, it cannot contract fo as to difcharge its contents, efpecially if any fwelling or inflammation remains from the prefure upon the neck and urethra; in which cafe the patient is aflicted with violent ftretching pains in the loins, back, groin, and particalarly above the os pubis.

This complaint is inmediately removed by drawing off the urine with a catheter; and indeed this cxperiment ought to be tried before delivery, as it muft infallibly promote labour, becaufe one pain interferes with the other. If the inflammation continues or increafes, and the obftrucion of urine recurs after delivery, the external parts ought to be fomented with warm fupes; bladders half filled with warm water oremollient decoctions may be applied, as hot as the patient can bear them, to all the lower parts of the belly; and the catheter bc ufed twice a day, or as often as neceffity requires, until the bladder fhall have recovered its tone, fo as to perform its office without afiftance.

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## OF THE FLUOR ALBUS IN PREGNANT WOMEN.

THiS difeharge, to which women are more fubject at other times than during uterine geftation, if in a large quantity, may hinder conception. In thofe who are ufually troubled with it, the complaint generally ceafes all the time of pregnancy; in fome, however, it continues to the laft, provided the fcat of it is the vagina; and the evacuation is fometimes fo great as to weaken both mother and child, and even to produce a mifcarriagc. Every thing that ftrengthers and nouriflhes the body is here of fervice. This is alfo fuppofed to happen, when fome part of the chorion being feparated from the uterus, the fluid that is feparated by the colatura lactea for the nutrition of the fœetus, forces its way through the os internum; and the greater this feparation is, and the nearer the full time, the larger the difcharge will be.

## $S E \quad C \quad$ T. VI. <br> OF THE GONORRHOEA AND LUES VENEREA.

THOUGH women are not fo foon affected with this diftemper as men, they are commonly cured with greater difficulty, becaufe of the great moifture and laxity of the parts affected; efpecially in pregnant women, who neverthelefs are to be treated in the fame method as practifed at other times, except that in this cafe mercurials and cathartics ought to be veiry cautioully ufed; for if the gonorrhœa be neglected or unfkilfully managed, the cirus will inereafe, and actually degerierate into a confirmed pox. It is often difficult to diftinguifh a gonorrhœa from the fluor albus, becaufe the colour and quantity of the difcharge is nearly the fame in both; in the laft, however, we feldom meet with inflammation or ulcers within the labia or entrance of the yagina; whereas in the firl, thefe generally appear, foon after the infection, aboat the meatus urinarius, the caruncule myrtiformes, and infide of the labia, producing a violent pain in making water. The gonorrhoea is likewife diftinguifhed from the fluor albus by its continuing all the time of the menftrual difsharge, during which the other complaint is commonly fufpended; but this mark is at beft but uncertain, and can be of no fervice in pregnancy, becaufe then the menfes themfelves are obftructed. The cure is beft attained by bleeding; repeated dofes of gentle cathartics, mixed with mercurials; a low diet; emulfions impregnated with nitre; and lafly, balfamic, ftrengthening, and aftringent medicines.

If the diftemper hath proceeded to an inveterate degree of the fecond infection, attended with cancerous ulcerations of the pudenda, bubaes in the groin, ulcers in the nofe and throat, fo that the life of the patient or conftitution of the parts are endangered, mercurials muft be given, fo as to raife a gentle degree of falivation; which ought to be immediately reftrained, and even carried off, by mild purgatives, and renewed occafionally, according to the Atrength of the woman, until the virus be utterly difcharged. Here, however, a great deal muft depend upon the judgement and difcretion of the prefcriber, who, tather than propofe any thing that might occafon abortion, ought to try, by palliating medicines, to alleviate and keep under the fymptoms till after delivery. See collect. xi. No. 40

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& \text {. O F M I S CAR R I A G E S. }
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MO S $T$ of the complaints above defcribed, if violent and neglected, may occafion a mifcarriage; and it would be almoft an endlefs tafk to enumerate every accident from which this misfortune may proceed. I fhall therefore content myfelf with defcribing in what manner abortion happens; firl, in the death of the child; fecondly, in the feparation of the placenta; and laftly, in whatever may occafion too great exsenfion of the neck and of the os internum.

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## OF THE CHILD'S DTATH.

THIS may procced from difeafcs peculiar to itfelf, not to be accounted for, as well as from divers accidents that befall it in the womb. If, for example, the navel-ftring be long, and the quantity of furrounding waters great.
the foetus, while young, may in fwimming form a noofe of the funis; through which' if the head oinly paffcs, a circumvolution will happen round the neck or body; .. but fhould the whole feetus pafs or thread this noofe, a knot will be formed on the navel-ftring, which, if tight drawn, will abfolutely obftrut the circulation. This may likewifc be the cafe when the watcrs are in very fmall quantity, and the funis umbilicalis falls down before the head, by which it is violently comprefied. In fhort, the death of the fetus will be effected by all circumvolutions, knots, or preffure upon the navel-ftring, which deftroy the circulation betwixt the placenta and the child.

The fortus may fuffer death from difcafes and accidents that happen to the mother; from violent paffions of. joy, fear, or anger, fuddenly raifed ta. fuch tranfports as occafion tremors, fainting or convulfions; and from a plcthora, and all acutc diftempers in which the circulating force of the fluids is too violent.

The child being dead, and the circulation in the fecundines confequently deftroyed, the uterus is no longer ftretched; the foctus, if, large, is no longér felt to move or fir ; all the contained parts run gradually into a fate of putrefaction; the refiftance of the membranes becomes weaker than the contracting force of the uterus, joined with the preffure of the contents and parietes of the abdomen; the contained waters of confequence burft through their mortified inclofure; and the uterus is contracted clofe to its contents, which are therefore prefled down lower and lower; the neck and mouth of the womb being gradually fretched, labour comes on, and a mifcarriagc enfues.

At other times, gripings, loofenefs, and labour-pains, even before the mombranes break, are occafioned by obfructions or refiftance of the veffels of the utcrus. . In thefe cafes, if no flooding happens, the woman is feldom in danger; and, though the child is known to be dead, the progréfs of nature is to be waited for with patience. If the woman is weak, exhaufted, or timorous, the muft be encouraged and fortified with nourithing diet ; if plethoric, the mult undergo evacuation by bleeding and laxative medicines ; and when labour begins, be affitled according to the directions fpecificd in the fequel. See collect. xii, No. I.

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S E C C \quad I T
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OF THE SEPARATION OF THE PLACENTA FROM THE UTERUS:

TH I S feparation may proceed from all the foregoing' difcafes and accidents that happen to the mother; from violent fhocks, ftrains, overreachings, falls, and bruifes on the abdomen; as alfo from vehemens cougles vomitings, or frainings at fool when the body is coffive. The feparation of the placenta is glways accompanied with a difcharge of blood from the yeffels of the uterus, more or lefs, accoiding to the term of pregnancy, or as the placenta is more or lefs detached.

The younger the woman is wifh child, the danger is the lefs; becaufe, though a confiderable quantity of blood be loft, it does not flow with fuch wiolence as to exhauft her immediately; and therefore fhe may be fupported and her fpirits kept up with proper cordials ind nutritive diet. But when fuch an hworrhage fappens in any of the threc or four laft months of pregnancy, the danger is much morc imminent, efpecially towards the full time; becaufe the veffels of the uterus being then largely diftended, a much greater quanity of blood is loft in a fionter time ; yet in both cafes; the Hoodings
floodings will be more or lefs, as there is more or lefs of the placeerta feparated from the womb; and when this happens in a very fmall degreé, the difcharge may by right management be foinetimes thopped, and every thing will happily proceed to the full time. But if this purpofe canriot' be effected in a woman yourig with child; the principal intention outght to be" á mitigation of the hamorrhage, leaving the reft to timie and patience, as $x$ mifcarriage in the firtt five months is feldom atterided with hazard. Ont the contrary, nothing can be more dangerous than fuch an effufion in any of the four laft months, provided it cannot be immediately reftrained; In this cafe we are often deceived by a fhort intermiffion, occafioned by coagulated blood that locks up the mouth of the womb, which being pufhed off, the flooding returns; and hence we account for its returning fo commonly upon motion, a fit of coughing, ftraining at fool, or any effort whatever.

It is happy for the woman in this cafe, when the is fo near the full time that fhe may be fuftained till labotr is brought on; and this may be promoted; if the head prefents, by gëntly fretching the nouth of the womb, which being fufficiently operied, the menibranes mont be broke; fo that the waters being evacuated, the uterus contracts, the flooding is reftrained, and the patient fafely delivered. At any raté; if the hæmorrhage returns again with great violence, there is no other remédy than that of delivering with all expedition according to the method defcribed in book iii. chap. iv. fect. 3. and book iv. chap. i. fect. 3.

Although the great danger is from floodings when near the full fime, yet, if labour can be brought on; the os uteri is eafily dilated with the labour or the hand; but in the fixth or feventh month; it takes longer time, and is ftretched with greater difficulty, which is fometimes the occafion of the danger at that period.

The edge or middle of the placenta fometimes adheres over the infide of the os internum, which frequently begins to open feveral weeks before the full timé ; and if this be the cafe, a flooding begins at thé fame time, and Seldom ceafes entirely until the woman is delivered ; the difcharge may indeed be intermitted by coagulums that ftop up the paflage; but when thefe are removed, it returns with its former violence, and demands the fame treatment that is recommended above.

In all cales and at all times of pregnancy, if the woman receivés any cx̀traordinary fhock either in mind or boidy, if the is attacked by a violent fever, or any complaints attending a plethora, bleeding ought aliways to be prefcribed by way of prevention orprecaution, unlefs a low, weak, lax habit of body renders fuch evacuation unadvifable; butt théfe are not fo fubject to fevers from fulnefs.

On the firf appearance of flooding, the patient ought immediately to be bled to the amount of eight or twelve ounces, and venæfection repeated occafionally according to the ftrength of the conititution and emergency. of the cafe. Shie ought to be confined to her bed, and be rather cool than warm. If zoftive, an emollient clyfter muft be injected in order to diffolve the hardened feces, that they may be expelled eafily without ftraining; internally, mulfion with nitre muft he ufed, and mixtures of the tinct. rofar. rub, acidulated with firit of vitriol, as the cooling or reffringent method fhall feem to be indicated; but above all things, opiates mutt be adminiftered to procure reft, and quiet tlie uneafy apprehenfions of the mind; for diet, let her ufe panada, weak broth, and rice-gruel; fhe may drink water in which a red-hot iron has been feveral times quenched, inixed with
a fmall proportion of burnt red-wine; fhe mult abftain from all the highfeafoned foods, and even fleth-meat or ftrong broths, that will enrich the blood too faft, and quicken the circulation. But if, notwithitanding this ragimen, the flooding thall continue and increafe, fo that the patient becomes faint and low with lofs of blood, we muft without farther delay attempt to deliver her, as in book iii. chap. ix. fect. 3 ; though this is feldom practicable, except in the latt months of pregnancy, and then will be the eafier perforined the nearcr the is to her full time, unlefs labour-pa:ns fhall have affilted or begun a dilatation of the os internum.

## $\mathcal{S} E C$ T. III.

## OF COUGHS, VOMITINGS, \&c.

MISCARRIAGES may alfo be produced from every force that will ftretch the neck and mouth of the womb ; fuch as violent coughs, vomitings, coftive ftrainings at flool, cathartics that bring on a fuperpurgation and tenefmus, together with frequent convulfions. All thefe fymptoms muft be treated in the ufual method; the cough and vomiting may be abated or removed chiefly by venæfection and opiates; the contipation, by clyfters and gentle laxative medicines; the fuperpurgation, by opiates; the tenefmus, by thefe and oily injections; the eonvulfions, by bleeding and blifo ters ; and as the more violent convulfions happen gencrally when the woman is near her full time, if they are not foon removed, but continue and increafe to the manifeft hazard of the patient's life, the ought to be delivered imnediately in the fame manner as in the cafe of a flooding in the laftmoonths. See collect. xii. No. 2.

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ABORTION may be likewife occafioned by uncommon longings for things that cannot be foon or eafily got, or fuch as the woman is a ahamed to afk for, efpecially in her firlt child, namely, diffcrent kinds ot food and drink. Thefe appetites, if not gratified, fometimes produce a mifcarriage; and indeed are fuppofed to affect the child in fuch a nanner, that the body of it thall be impreffed with marks refembling the figure or colour of what the mother longed for. Thefe cravings, therefore, though, they appear unreafonable and improper, mult be fatisfied; and the mother ought to fhun every thing that is difagreeable to the fenfes, becaufe mifcarriage may alfo proceed from furprife at fight of ftrange and horrible objects, See collect. xii. No. 3.


OF THE CHILD'S SITUATION IN THE UTERUS.

THE embryo or foetus, as it lies in the uterus, is nearly of a circular or rather oval figure, which is calculated to take as little fpace as poofible. The chin refls upon the brealt ; the thighs are preffed along
thebelly; the heels applied to the breech; the face being placed between the knees while the arms crofseach other round the legs. The head for the moft part is down to the lower part of the uterus; and the child being contracted into an oval form, the greateft length is from head to breech; the diffance from onc fide to the other is very much lefs than that from the fore to the back part; becaufe the thighs and legs are doubled along the belly and ftomach, and the head bended forward on the breaft. The uterus being confined by the vertebrec of the loins, the diftance from the back to the fore part of it muft be lefs than from fide to fide; fo that in all probability, one fide of the foetus is turned toward the back, and the other to the fore part of the womb; but as the back part of the uterus forms a fmall longifh cavity on each fide of the vertebræ, the fore parts of the fæetus may therefore, for the moft part, tilt more backward than forward.

It has bcen generally fuppofed that the head is turned up. to the fundus, and the breech to the os uteri, with the fore partstoward the mother's belly; and that it remains in this fituation till labour begins, when the head comes downward, and the face is turned to the back of the mother. Some alledge, that the head precipitates about the end of the eighth or beginning of the ninth month, by becoming fpecifically heavier than the reft of the body. Others affirm, that as the child increafes in bulk, efipecially during the two laft months, the proportion of furrounding water muft be diminifhed fo as that it is confined in its motion, and in ftruggling to alter its pofition the head is moved to the os tincæ, where it remains till delivery. The particulars of this and other theories, may be found in Mauriecau, La Motte, Simpfon, and Oald. But from the following obfervations it feems more probable, that the head is for the moft part turned down to the lower part of the uterus, from conception to delivery.

In the firft month, according to fome writers, the embryo exhibits the figure of a tadpolc, with a large head and fmall body or tail, which gradually increafes in magnitude, till the arms and thighs begin to bud or ttart out, like fmall nipples, from the fhoulders and breech; two black fpccks appear on each fide of the head, with a little hole or opening between them, which, in the fecond month, are eafily diftinguifhed to be the eyes and mouth. (Sec tab. v. fig. 3.) The legs and arms are gradually formed, while the body turns larger; but the fingers are not feparate or diftinct, till the latter end of the fecond or the beginning of the third month. (See tab. vi. fig. 1.) This is commonly the cafe, but fometimes the bulk and appearance differ confiderably in different embryos of the fame age. The younger the embryo, the larger aud heavier is the head in proportion to the reft of the body; and this is the cafe in all the different gradations of the foctus; fo that, when dropped or fufpended by the navel-ftring in water, the head muft fink lowermoft of courfc. Bcfides, when women inifcarry, in the fourth, fifth, fixth, and feventh months, the head, for the moft part, prefents itfclf, and is firf delivered. (See tab. vi. viii.) By the touch in the vagina, the head is frequently felt in the ferenth, fornetimes in the fixth, but more frequently in the eighth month; and if the fame women are thus cxamined from time to time till the labour begins, the head will always be felt of a round firm fubftance at the fore part of the brim of the pelvis, betwixt the os intcrnum and pubcs, through the fubfance of the vagina and uterus. (Sec tab. ix. xi.) But all thefe opinions are limble to objections. If the defcent of the head proceeded from its fpecific gravity, we fhould always find it at the os internum, becaufe this reafon would always prevail; if it werc not owing to a diminithed proportion of sater, why

Should we find the breech prefented, even where there is a quantity of that -luid large enough to give the head free liberty to rife again toward the - Iundus, or (according to the other opinion) to fink down, by its \{pecific gravity, to the os internum? Sone, indeed, fuppofe, that the head al:ways prefents itfelf, except when it is hindered by the funis umbilicalis twifting round the neck and body, fo as to impede the natural progrefs. - Bat, werc this fuppoition juft, when we turn and deliver by the feet thofe children that prefented in a preternatural way, we fhould always find them more or lefs circumveluted by the navel-Atring; whereas I have as often found the funis twifted round the neck and boay, when the head prefented, as in any other cafe; and when other parts offered, have frequently deli--vered the child without finding it in the leaf entangled by that cord.

That the head is downward all the time of getation, feems, on the whole, to be the moft reafonable opinion, though it be liable to the objection already mentioned, and feems contradictory to the obfervation of fome authors, who alledge, that, in opening women that died in the fifth, fixth, or fcventh month, they have found the child's head toward the fundus uteri. But as it lies as eafy in one pofture as in another till the birth, this difpute is of lefs confequence in the practice of midwifery. It may be ufeful to faggeft, that the wrong pofture of the child in the uterus may proceed from circumvolutions of the funis umbilicalis (fee tab. xxix.); or when there is - Iittle or no water furrounding the child, it may move into a wrong pofition, and be conined there by the ftricture of the uterus (fee tab. xxx. xxxi. xxxii. xxxiii.) ; or laftly, it may be the effect of a pendulous belly or narrow pelvis, when the head lies forward over the pubis. See collect. xiii。 and tab. xii. xxrii. xxxiv.


TOUCHING is performed by introducing the fore finger lubricated witli
pomatum into the vagina, in order to feel the os internum and neck of the, aterus; and fometimes into the rectum, to difcover the fretching of the fundus. By fome, we are advifed to touch with the middle finger, as beinglthe Iongeft; and by others, to employ both that and the firft; but the middle is, too much encumbered by that on each fide, to anfiwer the purpofe -fully; and when two are introduced together, the patient never fails to complain. The defign of todching, is, to be informed whether the woman is oris. not with childi; to know how. far the is advanced in her pregnancy; if he is in danger of a miffarriage; if the os uteri be dilated; and, in time of labour, to form a right judgement of the cafe from the opening of the os internum, and the prefling down of the nembanes with their .,waters; -and laftly, to dittinguifh what part of the child is prefented. it is generally inpracicable to difcover. by a touch in the vagina, whether of not the uterus is impregnated, till after the fourth month; when the beft time for examination is the morning, when the woman is fatting, after the contents of the bladder and retuin have been difcharged; and the ought, if neceffary, to fubmint to the enquiry, in a flandiag pofture; beaufe, in that cafe, the $\cdots$ aterus hangs lower down in the vagina, and the weight is more fenfible to the touch than whery fhe lies reclined. Onc principal reafon of our uncertainty is, when wee tsy, to feel the neck, the svomb rifes up on our preffing againt the vagina, at the fide of, the os internum. (fee tab. vi, fig.. I.); and
to fome, the vagina feels very tcufe; but, when the fundus uteri is advanced
near the navel, the preffure from above keeps down the os internum fo much, that you ean generally feel both the neek, and above that, the ftretching of the under part of the uterus. See tab. vi. viii.

There is no confiderable variation to be felt in the figure of the os internum; except in the later end of pregnaney, when it fometines grows larger and fofter (fee tab. ix.); nor do the lips feeń to be möre clofed in a woman with child than in another; efpecially in the beginning of pregnainey; but in both cafes, the os uteri is felt like the mouth of a young puppy or teneh; as we have before obferved. In fome, the lips are very fmall; in others, large; and fometimes, though feldom, fmoothed over or pointed. In many women, who have formerly had childrén ärid difficult labours, thé lips are large, and fo mueh feparated as to ädmit the tip of an ordinary finger; but a little higher up, the neck feems to be quite clofed:
In the firt four monthis, the neek of the womb may be felt hanging down in the vagina, by puthing up the finger by the fide of the osinternum ; but the fltetching of the uterus and upper part of the neek eannot be perceived till the fifth, and fometimes the fixth month; and even then the uterus mult be kept down, by a ftrong preflure upon the belly:

The ftretching of the fundus is \{ometimes felt by the finger introduced into the rectum, before it ean be pereeived in the vagina; becaufe, in this laft method, the uterus reeedes from the touch, and rifes too high to be accurately diftinguithed; whereas the finger, being introduced into the rectum, paffes along the back of the womb alnoft to the upper part of the fundus, which in an unimpregnated ftate is felt flat on the back part, and jutting out at the fides; but the impregnated uterus is perceived like a large round tumour.

About the fifth or fixth month, the upper part of the uterus is fo mueh Atretched, as to rife three or four inches above the os pubis, or to the middle fpaice between that and the navel; fo that, by preffing the hand on the belly, efpecially of lcan women, it is frequently pereeived (fee tab. vii.); and if, at the fame time, the index of the dther hand be introduced in the vagina, the neck will fecm thortened, particularly at the fore part and fides; and, as I havealready obferved, the weight will be fenfibly felt; but if the parietes of the abdomen are ftretched after eating, one may be deeeived by the ftretching of the fomach, becaufe weight and preffire are the fame. But all thefe figns are more perceptable toward the latter end of pregnancy; and in fome women the os intcrnum is felt a little open fome weeks before the full time, though generally it is not opened till a few days before labour begins:

From the fifth to the ninth month, the neck of the uterus becomes fhorter and fhorter, and the ftretching of thi womb grows more and more perceptable: In the feventh month, the fundus rifcs as high as the navel ; in the eighth inonth, to the middle fpace betwixt the navel and ferobiculus cordis; and in the ninth, even to the fcrobiculus, except in pendulous bellies. See tab: vii, viii, ix. But all thefe marks may vary in different women; for when the belly is pendulous, the paits below thie navel are much nore fretched than thofe above, and hang over the of puibis; the fundus will then be only equal to, or a little higher than, the navel ; att other times the uterus will rife in the latter end of the feventh or ciglith month to the ferobiculus cordis. The neck of the womb will in fome be felt as long in the eighth, as in others in the fixth or feventh month. This variation fumetimes makes the examination of the ablowen more certain than the touch of the vagina; and fo ryice verfic. At other times, we muif judge by both. See collect: xiii and tab, xii.

OF THE SIGNS OF CONCEPTION, AND THE EQUIVOCAL SIGNS OF PREGNANT AND OBSTRUCTED WOMEN.
THE figns of pregnancy are to be diftinguifhed from thofe that belong to obitructions, by the tou'cli in the vagina, and motion of the child in the fifth or fixth month: fometimes, by the touch in the reftum, before and after the fifth month, when the tumour of the abdomen is plainly perceived.
Moft women, a day or two before the irruption of the catamenia, labour under complaints proceeding from a plethora; fuch as ftretching pains in the back and loins, infide of the thighs, breaft, and head; a ficknefs and oppreffion in the ftomach, and a fulnefs of all the vifcera of the abdomen; and all thefe fymptoms abate, and gradually vanifh, when the difcharge begins and continues to flow. But if the woman be obftructed by any accident or error in the non-naturals, all thofe complaints continue and increafe, and are hardly diftinguifable from the fymptoms of pregnancy, till the end of the fourth month; at which period, women with child grow better, and all complaints of fulnefs gradually wear off; whereas thofe who are only obftructed, grow worfe and worfe, from the increafe of the lentor in the fluids, which will in time produce various and dangerous difeafes. The fundus uteri, in the obftructed patient, is not ftretched, nor is the diforder in her fomach fo violent as in a pregnant woman, and feldom accompanied with retchings; while the woman with child is afficted with a retching every morning, and fubject to longings befides. The firt labours under a fulnefs of the veffels; the latt, over and above this complaint, fuffers an additional one from the diftenfion of the uterus by the xmpregnated ovum. Obftructions and pregnancy are both accompanied by a fretching fulnefs of the breafts; but in the laft only may be perceived the arcola, or brown ring, round the nipples, from which, in the laft months, a thin ferum diftils; but this circle is not always fo difcernable as in the firt pregnancy, and even then is uncertain, as well as the others.

About the fifth or fixth month, the circumferibed tamour, or ftretching of the uterus, is. felt above the os pubis; and by this circumfeription and confiftence, eafily diftinguifhed from the afcites or dropfy of the abdomen : it is alfo rounder and firmer than thofe fwellings that accompany obltructions, which proceed from a general fulnefs of the reffels belonging to the ligaments and neighbouring vifcera.

On the whole, the difficulty of diftinguifhing between obftruction and pregnancy, in the firf months, is fo great, that we ought to be cautious in giving our opinion, and never prefcribe fuch remedies as may endanger the fruit of the womb, but rather endeavour to palliatc the complaints until time fhall difoover the nature of the cafe; and always judge on the charitable fide, when life or reputation is at ftakc.

In the fifth or fixth month of uterinc geftation, by the touch in the vagina, we perceive the neck of the womb confiderably fhortened; and the ttretching of the lower part of the utcrus is then fenfibly felt between the mouth of the womb and the pubes, and on cach fide of the neck. See tab. ri. viii.

In the feventh monelt, the head of the child is frequently felt refting againt the lower part of the uterus, betwecn the pebes and os internum ; and being pufhed upward toward the fundus, finks down again by its own gravity. All thefe diagnottics are more plain and certain, the nearcr the patient approaches to the time of delivery.

Sometimes the head is not felt till the eighth or ninth month; and in fome few cafes, not till after the membranes are broke, when it is forced down by the contraction of the uterus and ftrong labour-pains. This circumfance may be owing to the head refting above the bafon, efpecially in a narrow pelvis; or to the diftenfion of its belly with air after death; by which, the foctus being rendered fpecifically lighter than the furrounding waters, the body floats up to the fundus, if there is a large quantity of Aluid in the membranes ; nor is the body always felt when the child lies acrofs the uterus. See collect. xiii.

## $S E C T$ IV.

## HOW TO DISTINGUISH THE FALSE LABOUR FROM THF TRUE, AND

 THE MEANS TO BE USED ON THAT OCCASION.IF the os uteri remains clofe fhut, it may be taken for granted that the woman is not yet in labour, notwithfanding the pains fhe may fuffer. With regard to thefe, an accurate enquiry is to be made; and if her complaints proceed from an over-ftretching fulnefs of the uterus, or veffels belonging to the neighbouring parts, bleeding in the arm or ankle, to the quantity of fix or eight ounces, ought to be prefcribed, and repeated occafionally. If the pains are occafioned by a loofemefs, or diarrhoa, it muft be immediately reftrained with opiates, as in book ii. chap. iii. fect. 4 : Colic pains are diftinguifhed from thofe of labour by being chiefly confined to the belly, without going off and returning by diftinct intervals; they are, for the moft part, praduced by faccs too long retained in the colon, or by fuch ingefta as occafion a rarefaction or expanfion of air in the inteftines, by which they are violently ftretched and vellicated. This complaint muft be removed by opening clyfters, to empty the guts of their moxious contents; and this evacuation being performed, opiates may be adminiftered to affuage the pains; either to be injected by the anus, taken by the mouth, or applied externally in the form of epithem or embrocation.

Sometimes the os internum may be a little dilated, and yet it may be difficult to judge whether or not the patient be in labour. The cafe, however, may be afcertained after come attendance by thefe confiderations: if the woman is not arrived at her full time; if no foft or glary mucus hath been difcharged from the yagina; if the pains are limited to the region of the belly, without extending to the back and infide of the thighs; if they are night, and continue without intermiffinn or increafe; nay, if they have long intervals, and recur without force fufficient to pufh down the waters and membranes, or child's head, to open the os internum; if this part be felt thick and rigid, inftead of being foft, thin, and yielding, we may fafely pronounce that labour is not yet begun ; and thofe alarms are to be removed as we have directed in the cafe of falfe or colic pains. Befides, if the pulfe be quick and ftrong, and the patient attacked by fitches in the fides, back, or hcad, bleeding will be likewife neceffary. See collect, xiif, and tab, yiii. ix. $x$.

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## THE DIVISION OF LABOURS.

HIPPOCRATES, and almof all the writers upon this fubjcet from his time to the fifteenth century, divided labour into two kinds; namely, naturat and pretcruatural. 'The firt comprehended thofe cafes in which the
head (others fay the head and breech) prefented, though the prefentation of the head was always deemed the moft natural ; the other included all births in which any other part of the body firt offered itfelf. And though they did not, like us, ufe a third diffinction, they feem to have undertood it in their practice ; for, among their chirurgical operations, we always find a chapter on the method of delivering dead children, by opening the head, and extracting with the crofcher. At prefent, labours are divided into natural, according to the ancients, when the head or breech prefents; laborious, when, notwithftanding this fituation of the child, the delivery goes on fo tedioufly, that the woman is in danger of lofing her life, unlef's fhe is affifted with the operator's hand, fillet, forceps, blunt hook, or crotchet ; and preternatural, when neither head nor breech prefents, fo that for the moft part, there is a neceffity of turning the child, and bringing it away by the feet. But the divifion of labours hath been varied according to the opinion of different people. Some think that all thofe cafes ought to be deemed preternatural, in which any part of the body (the head itfelf not excepted) prefents in an unufual way. Others affirm, that whatever part prefents, or however the pofture of the child may be, if it is delivered without any other affiftance than that of the labour-pains, the birth ought to be called uatural; laborious, when in thefe cafes the child is born with difficulty; and pricternatural, when, lying acrofs the uterus, it muft be turned and delivered by the feet.

For my own part, having in teaching found all thefe divifions liable to objections, I have followed a method which is more fimple than the others, and will fave abundance of repetition.

I call that a natural labour, in which the head prefents, and the woman is delivered by her pains, and the affiltance commonly given; but fhould the cafe be fo tedious and lingering, that we are obliged to ufe extraordinary force in tretching the parts, extracting with the forceps, or (to fave the mother's life) in opening the head and delivering with the crotchet, I diftinguifh it by the appellation of laborious; and in the preternatural, I comprehend all thofe cafes in which the child is brought by the fect, or the body delivered before the head. Neither do I mind how the child prefents, fo much as the way in which it is delivered ; for there are cafes in which the head prefents, and for feveral hours we expect the child will be delivered in the natural way; but, if the woman has not ftrength enough to force down the child's head into the pelvis, or in floodings we are at Jength obliged to turn and bring it by the feet, becaufe it is fo high that the forceps cannot be applied, and if the child is not large, nor the pelvis narrow, it were pity to deftroy the hopes of the parents, by opening the fkull, and extracting with the crotchet. In this cafe, therefore, although the child prefents in a natural way, we are obliged to turn and deliver it in the fame manner ass if the Thoulder, breaft, or back, had prefented; and generally, this operation is more difficult than in either of thofecafes; becaufe if the waters are all difcharged, and the uterus clofe contracted round the foetus, it is more difficult to raife the head to the fundus. When the breech prefents, we are frequently obliged to puif it up and fearch for the legs; which being found, we proceed to deliver the body, and laftly the head. If the head is large, or the pelvis narrow, and the waters not difcharged, we ought, if pofiible, to turn the child into the natural polition.

For a farther illuftration, and to inform young practitioners that dificult cafes do not frequently occur ; fuppofe, of three thoufand women in
one town or village, one thoufand thall be delivered in the fpace of one year, and in nine hundred and ninety of thefe births, the child thall be born without any other than common affiftance; fifty children of this number thall offer with the forehead turned to one fide at the lower part of the pelvis, where it will fop for fome time; ten will come with the forehead toward the groin, or middle of the pubes; five fhall prefent with the breech, two or three with the face, and one or two with the ear; yct all thefe fhall be fafely delivered, and the cafe be more or lefs lingering and laborious according to the fize of the pelvis and the child, or ftrength of the woman. Of the remaining ten that make up the thoufand, fix fhall prefent with the head differently turned, and two with the breech; and thefe cannot be faved without fretching the parts, ufing the forceps or crotchet, or pufhing up the child in order to bring it by the feet; this neceffity proceeding either from the weaknefs of the woman, the rigidity of the parts, a narrow pelvis, or a large child, \&c.; the other two fhall lie acrofs, and neither head nor breech, but fome other part of the body, prefent, fo that the child muft be turned and delivered by the feet. Next year, let us fuppofe another thoufand women delivered in the fame place; not above three, fix, or eight, fhall want extraordinary affiftance; nay, fometimes, though feldom, when the child is young or unufually fmall, and the mother has ftrong pains and a large pelvis, it fhall be delivered even in the very worf pofition, without any other help than that of the labourpains.

As the head therefore prefents right in nine hundred and twenty of a thoufand labours, all fuch are to be accounted natural; thofe of the other feventy that require affifance may be deeme alaborious; and the other ten, to be denominated laborious or preternatural, as they are delivered by the head or feet.

In order, therefore, to render this Treatife as diftinet as poffible, for the fake of the reader's memory, as well as of the dependence and connection of the different labours, they are divided in the following manner:

That is accounted natural, in which the head prefents, and the woman is delivered without extraordinary help; thofe births are called laboriousor non-natural, when the head comes along with difficulty, and muft be affifted either with the hand in opening the parts, or with a fillet or forceps, or even when there is a neceffity for opening and extracting it with the crotchet ; and thofe which are brought by the breech or feet, are denominated preternatural, becaufe the delivery is performed in a preternatural way.

## C H A P. II.

Natural Labours.
$\mathcal{S} E \quad G \quad T: \quad I$
OF THE DIFFERENT POSITIONS OF WOMEN IN LABOUR.

IN almoft all countries, the woman is either to fit, walk-about, or reft upon a bed, until the os uteri is pretty much dilated by the gravitation of the waters, or (when they are in fmall quantity) by the head of the fuetus, fo that delivery is foon expected, when the is put in fuch po-
fition as is judged more fafe, eafy, and convenient for that purpofe; but the patient may be put upon labour too prematurely, and bad confequences will attend fuch miltakes. See collect. xiii. xiv.

Among the Egyptians, Grecians, and Romans, the woman was placed upon a high ftool; in Germany, and Holland, they ufe the chair which is defcribed by Daventer and Heifter; and for hot climates, the ftool is perfectly well adapted; but in northern countries, and cold weather, fuch a pofition mult endanger the patient's health.

In the Weft-Indies, and fome parts of Britain, the woman is feated on a ftool made in form of a femicircle; in other places, fhe is fituated on a woman's lap ; and fome, kneeling on a large cuthion, are delivered backwards.

In France, the pofition is chiefly that of half-fitting half-lying, on the fide or end of a bed; or the woman being on naked bed, is raifed up with pillows or a bed-chair.

The London method is very convenient in natural and eafy labours; the patient lies on bed upon one fide, the knees being contracted to the belly, and a pillow put between them to keep them afunder. But the moft commodious method is to prepare a bed and a couch in the fame room; a piece of oiled cloth or dreffed fheep-fkin is laid acrofs the middle of each, over the under-heet; and above this are fpread fevesal folds of linen pinned or tied with tape to each fide of the bed and couch. Thefe are defigned to fponge up the moifture in time of labour and after delivery; while the oiled cloth or fhecp-ikins below preferve the feather-bed from being wetred or fpoiled; for this purpofe, fome people lay befides upon the bed feveral under-fheets over one another, fo that by fliding out the uppermoft every day, they can keep the bed dry and comfortable.

The couch mult be no more than three feet wide, and provided with caftors; and the woman, without any other drefs than that of a mort or halfThift, a linen fkirt or petticoat open before, and a bed-gown, ought to lie down uponit, and be covered with clothes according to the fealon of the year. She is commonly laid on the left fide, but in this particular fhe is to confult her own eafe; and a large fheet being doubled four times or more, one end mult be fipped in below her breech, while the other hangs over the fide of the couch, to be fpread on the knee of the accoucheur or midwife, who fits behind her on a low feat. As foon as the is delivered, this fheet mut be removed, a foft warm cloth applied to the os externum, and the pillow taken from betwixt her knees; fhe then muft be fhifted with a clean warm half-fhift, linen fkirt and bed-gown, and the belly kept firm with the broad head-band of the fkirt, the ellds of which are to be pinned acrofs each other. Thefe meafures being taken, the couch muft be run clofe to the bed-fide, and gently moved from one to another; but if there is no couch, the bed mutt be furnihed with the fame apparatus. "Some, again, are laid acrofs the foot of the bed, to the head of which the clothes aye previonfly turned up till after delivery, when the woinan's pofture is adapted, and then they are rolled down again to cover and keep her warm. By this expedient the place of a couch is fupplied, and the upper part of the bed preferved foft and clean; whereas thofe who are laid above the clothes, nnuft be taken up and mifted while the bed is pur to rights, in which cafe they are fubject to fainting; and to fuch as are very much enfecbled, this, Satigue is often fatal.

Women are moft eafily touched, leaft fatigued, and kept warmeft, when they lie on one fide. But if the labour fhould prove tedious, the Parifian method feems moft eligible; becaufe, when the patient half-fits half-lies, the brim of the pelvis is horizontal ; a perpendicular line falling from the middle fpace between the fcrobiculus cordis and navel, would pafs exactly through the middle of the bafon, as obferved in book i. chap. i. In this pofition, therefore, the weight of the waters, and, after the membranes are broke, that of the child's head, will gravitate downward, and affift in opening the parts, while the contracting force of the abdominal mufcles and uterus is more free, ftrong, and equal, in this than in any other attitude. Wherefore, in all natural cafes, when the labour is lingering or tedious, this or any other pofition, fuch as ftanding or kneeling, ought to betried, which, by an additional force, may help to puth along the head and alter its direction, when it does not advance in the right way. Neverthelefs, the gatient muft by no means be too much fatigued.

When the woman lies on the left fide, the right hand maft be ufed in touching, and vice verfa, unlefs the is laid acrofs on the bed; in which cafe, either hand will equally anfwer the fame purpofe; but if fhe lies athwart, with the breeclitoward the bed's foot, it will be moft convenicnt to touch with the left hand when the is upon the left fide, and with the right when in the oppofite pofition. And here it will not be amifs to obferve, that in the defeription of all the laborious and preternatural deliveries treated of in this performance, the reader mult fuppofe the woman lying on her back, as directed in chap. iii. fect. 3. and chap. iv. fect. 4. except when another pofture is defcribed ; and that in natural and lahorious labours, whether the be upon her fide or back, the head and fhoulders are a little raifed into a reclining pofture, fo that the may breathe eafily, and affitt the pains.

But in preternatural labours, when the re is a neceffity for ufing great force in turning the child, the head and fhoulders mult lie lower than the breech, which, being clofe to the fide or foot of the bed, ought to be raifed higher than either; becaufe, when the pelvis is in this fituation, the hand and arm are eafily pufhed up in a right-line along the back past of the utcrus, even to its fundus. Sometimes, however, when the feet of the child are toward the belly of the mother, they are more eafily felt and managed when fhe lics on her fide. At other times, placing the woman on her knees and elbows on a low couch, according to Daventer's method, will fucceed better by diminifing in part the ftrong refiffance from the preffure and weight of the uterus and child, by which the feet will fometimes be eafier found and delivered ; but then it is fafcr to the child and eafier for the operator and wother, to turn her to her back before you deliver the body and head.

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OF THE MANAGEMENT OF WOMEN IN A MATL゙RAL LABOUR.

IN a woman comc to full time, labour commonly begins and proceeds ide the following manner:
The os utcri is felt foft and a little opencd, the circumference being fometimes thick, but chiefly thin; from this aperture is difcharged a thick mucus, which lubricates the parts, and prepares them for flretching. 'This difcharge ufually begins fome days before, and is accounted the fore-runner of real fabour; at the fame time the woman is feized at intervals with. fight
pains, that gradually ftretch the os uteri, fitting it for dilatation, and when labour actually begins, the pains become more frequent, ftrong, and latting.

At every pain the uterus is frongly compreffed by the fame effort which expels the contents of the rectum at ftool ; namely, the inflation of the lungs and the contraction of the abdominal mufcles:

If the child be furrounded with a large quantity of waters (fee tab. ix. x. xi.) the uterus cannot come in contact with the body of it ; but at every pain the membranes that are pufhed down by the fluids they contain, and the mouth of the womb being fufficiently opened by this gradual and repeated diftenfion, they are forced into the middle of the vagina; then the uterus contracts and comes in contact with the body of the child, and, if it be fmall, the head is propelled with the waters. Here the membranes ufually break; but if that is not the cafe, they are puthed along toward the os externum, which they alfo gradually open, and appear on the outfide in the form of a large round bag ; mean-while, the head advances, and the os externum being by this time fully dilated, is alfo protruded; when, if the membranes, inttead of burfing in the middle of the protuberance, are toren all round at the os externum, the child's head is covered with forne part of them, which goes under the name of the caul or king's bood. If the placenta is at the fame time feparated from the uterus, and the membranes remain unbroken, the fecundines, waters, and child, are delivered together; but if the placenta adheres, they muft of courfe give way; and hould they be toren all round from the placenta, the greateft part of the body, as well as the head of the child, will be enveloped by them, from which it muft be immediately difengaged, that the air may have a free paffage into the lungs.

When the head is large, fo that it does not defcend immediately into the pelvis, the membranes are forced down by themfelves, and being ftretched thinner and thinner give way, when all the waters, which are farther advanced than the head, run out; then, the uterus coming in contaft with the body of the child, the head is fqueezed down into the mouth of the womb, which it plugs up fo as to detain the ref of the waters. See tab، xii. xiii.

Sometimes when the quantity of waters is very fimall, and the uterus embraces the body of the child, the head, covered with the membranes, is forced downward, and gradually opens the os internum; but at its arrival in the middlc of the pelvis and vagina, part of the waters will be pufhed down before it, fometimes in a large and fometimes in a fmall proportion, toward the back part of the pelvis. At other times, when the waters are in fmall quantity, no part of them are to be difinguifhed farther than the head, which defcending lower and lower, the attenuated membrancs are fplit upon it ; while at the fame timc it fills up the mouth of the womb and upper part of the vagina in fuch a manner, as hinders the few remaining waters from being difcharged at once; though iverery pain a finall quantity diffils on each fide of the head, for lubricating the parts, fo as thatthe child may flip along the more eatily. See tab. xiii.

The uterus contracts; the pains become quicker and ftronger; the crown of the head is puthed down to the lower part of the pelvis, againit one of the ifchia, at its lower estremity; the forehead, being at the upper part of the oppofite ifchium, is forced into the hollow of the under part of the facrum, white the vertex and hind-hoad are preffed below the os pubis (fee tab. xiv.) from whence it rifes in a quarter.turn, gradually opening the os ceternum; the frenum labiorum, or fourchette, perinxum, fundament,
and the parts that intervene betwixt that and the extremity of the facrum, are all ftretched outward in form of a large tumour. The perinxum, which is commonly but one inch from the os externum to the anus, is now firetched to three, the anus to two, and the parts between that and the coccyx are ftretched from two inches to about three or morc. The broad facro-feiatic ligaments, reaching from each fide of the lower part of the facrum, to the urider part of each ifchium, are alfo outwardly extended, and the coccyx is forced backward; while the crown of the head; where the lambdoidal croffes the end of the fagittal future, continues to be pufhed along, and dilates the os externum more and more. See tab. xv. xviii.

When the head is fo far advanced that the back part of the neck is come below the under part of the os pubis, the forehead forccs the coccyx, fundament, and perinæum, backward and downward; then the hind-head rifes about two or three inches from under the pubes, making a half-round turn in its afcent, by which the forehead is equally raifed from the parts upon which it preffed, and the perinæum efcapes without being fplit or toren, (fee tab. xix.); at the fame time, the fhoulders advance into the fides of the pelvis at its brim where it is wideft, and, with the body, are forced along and delivered; mean-while, by the contraction of the uterus, the placenta and chorion are loofened from the inner furface to which they adhered, and forced through the vagina, out at the os externum.
IWhen the head relts at firft above the brim of the pelvis, and is not far advanced, the fontanel may be plainly felt with the finger, commonly toward the fide of the pelvis; this is the place where the coronal croffes the fagittal future, and the bones are a little feparated from each other, yrelding a foftnefs to the touch, by which may be diftinguifhed four futures, or rather one croffing another. Thefe may be plainly perceived, even before the membranes are broke ; yet the examination muft not be made during a pain, when the membranes are ftretched down and filled with waters ; but only when the pain begins to remit, and the membranes to be relaxed; otherwife they may be broke too foon, before the os internum be fufficiently dilated, and the head properly advanced.

When the vertex is come lower down, the fagittal future only is to be felt ; becaufe, as the hind-head defeends in the pelvis, the fontanel is turned more backward to the fide, or toward the concavity of the facrum; but, after it has arrived below the under part of the offa pubis, the lambe doidal may be felt croffing the end of the fagittal future, the occiput making a morc obtufe angle than that of the parietal bones, at the place where the three are joined together. But all thefe circumftances are more eafily diftinguilhed after the membranes are broke, or when the head is fo comprefled that the bones ride over one another, provided the hairy fcalp. be not exceffively fiwellcd. Sce collect. xiv, and tab. xiii, xiv, xvi, xvii, xviii,

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## HOW AND WHEN. TO BREAK THE MEMBRANES.

IHAVE already obferved, that if the child be furrounded with a large quantity of waters, the uterus cannot come in contact with the body, fo as to prefs down the head, until the membranes are pufhed a confiderable way before it into the vagina; nor cven then, until they are broke, and the fluid diminifhed in fuch a manner as will allow the woinb to contraet, and with the affitance of the pains, force along the child. When the merm-
branes, therefore, are ftrong or unadvanced, and continue folong unbroke that the delivery is retarded, provided the os internum be fufficiently dilated, they ought to he broke without farther delay, efpecially if the woman hath been much fatigued or exhautted with labour, or is feized with a violent flooding; in which cafe, the rupture of the mombrancs haten delivery, and. the hemorrhage is diminifhed by the contraction of the utcrus, which leffens the mouth of the veffels that are alfo compreficd by the body of the child.

The common method of breaking the membranes, is by thrufting the fingers againft them when they arc protruded with the wate's during the pain, or by pinching them with the finger and thumb; but if they are dctained too high to be managed in cither of thicfe methods, the hand may be introduced into the vagina, if the os extcrnum is fo lax as to admit it eafily; and if this cannot be done without giving much pain, the fore and middle fingers being pufhed into the vagina with the other hand, let a probe, or pair of pointed fciffars be direfted along and betwcen them, and thruft through the membranes when they are puftred with the waters below the hiead. This operation muft be cautioufly performed, left the head fhould be wounded in the attempt; and as for the inembrancs, let the opening be ever fo fmall, the watcrs are difcharged with force fufficient to tear them. afunder.

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WHEN LITTLE OR NO WATERS ARE PROTRUDED.

IF the vertex, inftead of refting at the fide of the brim of the pelvis, or at the os pubis, is forced farther down to the os internum, and the waters happen to be in fmall quantity, the head is pufhed forward, and gradually opcis the moutl of the womb without any fenfible interpofition of the wa. ters; then it advances by degrees into the vagina, and the membranes being fplit or toren, littlc or nothing is difcharged until the body of the child be delivered; and in this cafe, the hair of the head being felt, will fufficiently indicate that the nembranes are broke. If no hair is to be felt, but a fimooth body prefents itfelf to the touch, and the woman has undergone many frong painis even after the mouth of the won:b hath been largely dilated, and the head forced into the middle of the pelvis, you may conclude that delivcry is retarded by the rigidity of the membranes, that these is but a fmall quantity of waters, and that if the contained facs were broke, the head would come along without farther helitation.

Sometimes no waters can be felt while the head is no farther advanced than the upper part of the pelvis, becaufe it phugs up the paffage and kceps thein from defcending; but as it advances downward, the utcrus contracts, and tliey ate forced down in a fmall quantity toward the back part, from thence, as the headdefcends, or even though it fhould ftick in that fituation, thcy are $\}$ ufhed farther down, and the menbrames may be eafily broke; but the tafk is more difficult when no waters come down, and the membranes are contiguous to the head. In this cafe, they nuft bc feratched a little, during every pain, with the nail of a finger, which, though fhort and - fmooth, will by degrees wear them thinncr and thinner, until they fplit -upon the head by the force of labour. Yet this expedient ought ncrer to he ofed until you are certain that delivery is retarded by their rigidity; for if that be not the hindrance, the difficulty muft procced from: the weaknefs of the woman, a largc head, or narrow pelvis; in which cafe, the delivery is a work of time, and will be obftructed by the premature difcharge of the
waters, which by gradually pafing by the head, ought to keep the parts moift and flippy, in order to facilitate the birth; for, when the membranes are not broke, until the head is forced into the middle of the pelvis, the largelt part of it being then pait the upper part of the facrum, is commonly Iqueczed along, opens the os externum, and is delivered before all the waters are difcharged fron the uterus; fo that what remains, by moitening and lubricating the parts, helps the fhoulders and body to pafs with more eafe. When the membranes are too foon broke, the under part of the uterus contrats fometim :s fo ftrongly hefore the fhoulders, that it makes the refiitance fill greater, See collect. xv.

## $N \quad U \quad M \quad$ B. $\quad$ III.

HOW TO MANAGE WHEN THE HEAD COMES DOWN INTQ THE PELVIS.

IN nof natural labours, the fpace betwixt the fore and back fontanels, viz. the vertex, prefents to the os internum, and the forehead is turned to the fide of the pelvis; becaufe the bafon at the brim is widelt from fide to fide; and frequently, before the head is pufhed in and faft wedged among the bones, the child (after a pain) is felt to move and turn it to that fide or fituation in which it is leaft preffed and hurt, if it was not prefenting in that pofition before. But this pofition of the head may alter, viz. in thofe where it is as wide, or wider, from the back part to the fore part of the brim, than from fide to fide, the forehead may be turned backward or forward. But this form of the pelvis feldom happens.

This pofture is always obferved in a narrow pelvis, when the upper part of the facrum juts forward to the pubes; but as the child is forced lower down, the forehead turns into the hollow at the interior part of the facrum, becaufe the vertex and oceiput find lefs refiftance at the lower part of the offa pubis than at the ifchium, to which it was before turned, the pelvis being at the pubes, as formerly defcribed, no more than two inches in depth, whereas at the ifchium it amounts to four. If, therefore, the forehead fticks in its former fituation, without turning into the hollow, it may be affited by introducing fome fingers or the whole hand, into the vagina, during a pain, and moving it in the right pofition. See chap. iv. fect. iv. No. $5^{-}$

When the head of the feetus prefents and is forced along in any of thofe pofitions, the labour is accounted natural, and little elfe is to be done, but to encourage the woman to bear down with all her ftrength in every pain, and to reft quietly during each interval; if the parts are rigid, dry, or inflamed, they ought to belubricated with pomatum, hogs-lard, butter, or ung. althex; the two firt are mort proper for the external parts, and the two laft (as being harder and not fo eafily melted) ought to be put up into the vagina to lubricate that and the os internum.

## $N \quad U \quad$ B. $I V$.

## - HOW TD ASSIST IN LINGERING LABOURS WHEN THE PARTS ARE RIGID.

'THE mouth of the womb and os externum, for the moft part, open with greater difficulty in the firlt than in the fucceeding labours, more efpesially in women turned of thirty. In thefe eafes, the os externum muft be gradually dilated in cyery pain, by introducing the fingers in form of a cone, and turning them round, fo as to fretch the parts by gentle degrecs:
and the whole hand being admitted into the vagina, it will be fometimes found neceffary to infinuate the fingers with the flat of the hand between the head and os internum; for when this precaution is not taken in time, the os uteri is frequently purhed before the head (efpecially that part of it next the pubes) even through the os extcrnum; or if the licad pafles the mouth of the womb, it will protrude the parts of the os externum, and will endanger a laceration in the perinæum. This dilatation, however, ought to becautioully performed, and never attempted except when it is abfolutely necellary; even then it muft be effected nowly, and in time of a pain, when the woman is leaft fenfible of the dilating force.

When the the lahour happens to be lingering, though every thing be in a right pofture, if the affiftants are-clamorous, and the woman herfelf too anxious and impatient to wait the requifite time without complaining, the labour will be aftually retarded by her uneafinefs, which we muft endeavour to furmount by arguments and gentle perfuafion; but if the is not to be fatisfied, and ftrongly imprefled with an opinion that certain medicines might be adminiftered to haften delivery, it will be convenient to prefcribe fome medicine that fhe may take between whiles, to beguile the time and pleafe her imagination; but if the is actually weak and exhaufted, it will be neceffary to order fomething that will quịcken the circulating fluids, fuch as preparations of amber, caftor, myrrl, volatile fpirits, the pulv. ad partum of thi Edinburgh Pharmacopceia, with every thing in point of diet and drink that nourifhes and itreng thens the body. If the patient is of a plethoric habit, with a quick, ftrong pulfe, the contrary method is to be ufed, fuch as venæfection, antiphlogittic medicines, and plentitul draughts of weak diluting fluids. See collect. xvii. xviii.

## $N \quad U \quad M \quad B . \quad V$.

HOW TO BEHAVE WHEN THE BIRTH IS OBSTRUCTED BY THE NAVEL-STRING OF "THE CHILD, OR A NARROW PELVIS. See book ii. cliap. ii. feet. iii.

ALTHOUGH the head is pufhed down into the pelvis and the rertex employed in opening the os externum, the forehead being lodged in the concarity formed by the coccyx and lower part of the facrum; yet frenuently, after the labour-pain is abated, the head is again withdrawn, by the navcl-ftring happening to he twifted round the neek; or when the fhoulders, infiead of advancing, are retarded at the brim of the pelvis, one refting over the offa pubis, while the other is fixed at the facrum; or when (the waters having been long evacuated) the under part of the uterus contracts round the neck and before the houlders, keeping up the body of the child.

When the head is therefore drawn back by any of there obftacles, and the delivery hath been retarded during feveral pains, one or two fingers being introduced into the rectum before the pain goes off," ought to prefs upon the forehead of the child at the root of the nofe, great care being taken to avoid the eyes; this preffure detains the head till the return of another pain, which will fquecze it farther down, while the fingers, pufhing flowly and gradually, turn the forehead half round outward and half round upward. By this affiftance, and the help of ftrong pains, the child will be forced along, althouglf the neek be entangled in the navel-ftring; for as the child advances the uterus contracts, and confequently the placenta is moveil lower ; the funis umbilicalis will alfo ftretch a little, without obftructing the cirgulation:

The head being thus kept down, the fhoulders are preffed in every fucceeding pain until thcy are forced into the pelvis, when the whole comes along, without farther difficulty. And this expedient will, moreover, anfwer the purpofe, when the under part of the uterus or the os internum is contraited round the neck of the child, and before the fhoulders; alfo, when the head is very low, preffing a fingcr on each fide of the coccyx externally, will frequently affitt in the fame manner; alfo, in lingering cafes, when the woman is weak, the head large, or the pelvis narrow, you may affif the delivery by gently ftretching both the os externum and internum with your fingers, in time of the pains, which will increafe the fame, as well as dilate; but this is only to be done when abfolutely neceffary, with caution and at intervals, for fear of inflaming or lacerating the parts.

Over and above thefe obftacles, the head may be actually delivered, and the body retained by the contraction of the os externum round the neck, even after the face appears externally. In this cafe it was generally alledged that the neck was clofe embraced by the os internum ; but this feldom happens when the head is delivered, becaufe then the os internum is kept dilated on the back part and fides by the breaft and arms of the foetus, unlefs it be forced low down with or before the head.

When the head is delivered, and the reft of the body retained from the largenefs or wrong prefenting of the fhoulders, or by the navel-ftring being twitted round the body or neck of the child, the head mult be grafped on each fide, the thumbs being applied to the occiput, the fore and middle fingers extended along each fide of the neck, while the third and fourth of each hand fupport each fide of the upper jaw; thus embraced, the head muft be pulled ftraight forwards; and if it will not move eafily along, the force mult be increafed, and the direction varied from fide to fide, or rather from fhoulder to fhoulder, not by fudden jerks, but with a flow, firm, and equal motion. If the body cannot be moved in this manner, though you have exerted as much force as poffible without running the rifk of overfraining the neck, you mult endeavour to fip the turns of the navel-ftring. aver the head. But fhould this be found impracticable, you ought not trifle in tying the fring at two places, and cutting betwixt the ligatures, as fome people have advifed; fuch an operation would engrofs two much time; befides, the child is in no danger of fuffocation from the ftricture of the fünis, becaufe it feldom or never breathes before the breaft is delivered.

The better method is, immediatcly to flide along one or two fingers, either above or below, to one of the arm-pits, by which you try to bring along the body, while with the other hand you pull the neck at the fame time; if it ftill continues unmoved, fhift hands, and let the other arm-pit furfain the force; but if this fail, cut the navel-ftring, and tie it afrerwards. If the fhoulders lie fo high that the fingers cannot reach far enough to cut or take fufficient hold, let the flat of the hand be run along the back of the child; or fhould the os externum be ftrongly contracted round the neck, pulh up your hand along the breaft, and pull as before; and fhould this method fail, you muft have recourfe to the blunt-hook introduced and fixed in the arm-pit ; but this expedient muft be ufed with caution, left the child fhould be injured or the parts lacerated.

The child being born, the funis umbilicalis muft be divided, and the placenta delivered, according to the directions that will occur in the fequelv See collect. xix, $x x$, xxi, xxii.

## S ECT: IV. NUMB. I.

HOW TO MANAGE THE CHILD AFTER DELIVERY.

THE child being delivered, ought to be kept warm beneath the bedclothes, or immediately covered with a warmed flannel or linen cloth; If it cries and breathes, the umbilical cord may be tied and cut, and the child delivered to the nurfe without dclay; but if the air does not immediately rufh into the lungs, and the eirculation continues between it and the placenta, the operation of tying and eutting mult be delayed, and every thing tried to ftimulate, and fonetimes to give pain. If the circulation is languid, refpiration begins with difficulty, and procecds with long intervals; and if it be entirely ftopped in the funis, the child, if alive, is not eafily recovered; fometimes a great many minutes are elapfed before it besins to breathe. Whatever augments the circulating force, promotes refyiration; and as this increafes, the circulation grows ftronger, fo that they mutually affint each other. In order to promote the one and the other, the child is kept warm, moved, fhaken, whipped ; the head, temples, and breaft rubbed with epirits; garlic, onion, or muftard, applied to the mouth and nofe; and the child has been fometimes recovered by blowing into the mouth with a filver canula, fo as to expand the lungs.

When the placenta is itfelf delivered, immediately or foon after the child, by the comtinuance of the labour-pains, or hath been extracted by the opera. tor, that the uterus may contract fo as to reltrain too great a flooding; in this cafe, if the child has not yet breathed, and a pulfation is felt in the veffels, fome people (with good reafon) order the placenta, and as much as poffible of the navel-ftring, to be thrown into a bafon of warm wine or water, in order to promote the cireulation between them and the child; others advife us to lay the placenta on the child's belly, covered with a warm cloth; and a third fer order it to be thrown upon hot afhes; but of thefe the warm water feems the moft innocent and effectual expedient. Neverthelefs, if the placenta is ftill retained in the uterus, and no dangerous flooding enfues, it cannot be in a place of more equal warmth while the opcrator endeavours, by the methods above deferibed, to bring the child to life. Eee collect. xiiii.

## $N \quad U \quad M \quad 3 . \quad 1!$.

IN lingering labours, when the head of the child lath been long lodged in the pelvis, fo that the bones ride over one another, and the thape is preternaturally lengthened, the brain is frequently fo much comprefied, that violent convullions enfue before or foon after the delivery, to the danger and often times the deftruction of the child. This diforder is frequently relieved and carricd off, and the bad confequences of the long compreflion preventent, by cutting the navel-fring, before the ligature is made, or tying it fo:llightly as to allow two, three, or four large fpoonfuls to be difcharged.
If the child has been dead one or two days before delivery, the lips and genitals (efpecially the fcrotum in boys) are of a lived lue. If it hath !ain dcad in the uterus two or three days longer, the fkin may be cafily fripped from every part of the body, and the navcl-Atring appears of tho fame.colour with the lips ankl genitals; if ten or fourteen days, the body is much more livid and mortificd, and the hairy fcalp may be feparated with eafe; and indeed, any part of the cluld which hath been frongly prefed into the

Felvis, and retained in that fituation for any length of time, will adopt the fame mortified appearance.

## $N \quad U \quad$ M B. $\quad$ III.

## HOW TO TIE THE FUNIS UMBILICALIS.

DIFFERENT pratitioners have ufed different methods of performing this operation; fome propofing to tie and feparate the funis before the placenta is delivered; to apply one ligature clofe to the belly of the child, with a view to prevent a rupture of the navel; and making anothcr two inches above the former, to divide the rope between the two tyings; by the fecond ligaturc they mean to prevent a dangerous hemorrhage from the woman, provided the placenta adheres to the uterus. But all thefe precautions are founded apon miltaken notions; and the following feems to be that which is eafieft and beft:

If the placenta is not immediately delivered by the pains, and no flooding obliges you to haften the extraction, the woman may be allowed to reft a little and the child to recover. If the child does not breathe, or the ref. piration is weak, let the methods above prefcribed be put in practice, with a view to ftimulate the circulation; but if the child is lively, and cries with vigour, the funis may be immediately tied in this manner : having provided 2 ligature or two compofed of fundry threads waxcd together, fo as to equal the diameter of a packthread, being feren inches in length and knotted at each end, tie the navel-ftring about two fingers breadth from the belly of the child, by making at firt one turn if the funis be fmall, fecuring it with two knots; but if the cord be thick, make two more turns, and another double knot; then cut the funis with a pair of fharp fiffars one finger's breadth from the ligaturetoward the placenta; and in cuttiug run the fciffars as near as poffible to the root of the blades, elfe the funis will be aptitn nip from the edge, and you will be obliged to make feveral frips before you can effect a feparation; at the fame time, guard the point of the fciffars with your other hand. The child being wathed, a lincn ray is wrapped sound the tied funis; which being doubled up along the belly a fquare comprefs is laid over it, and kept firm or moderately tight with what the nurfes call a belly-band, or roller, round the body.

This portion of the funis foon fhrinks, turns firft livid, then black, and about the fifth day falls off clofe to the belly; and let the navel-fring, be tied in any part, or any diftance whatfoever from the belly, it will always drop off at the fame place; fo that ruptures in the navel feldom or never depend upon the tying of the funis, but may happen when the comprefs and belly-band are not kept -fufficiently firm and continued fome time after the feparation of the withered portion, efpecially in thofe children that cry much; the bandage ought always to be applied fo flight as not to affect refuiration.

The ligature upon the funis mufl always be drawn fo tight as to fhut up the mouths of the veffels; therefore, if they continue to pour out their contents, another ligature mutt be applicd helow the former; for if this precaution be neglected, the child will foon bleed to death; yet if the navelItring is cut or toren afunder at two or three hand-breadths from the belly, and expofed to the cold without any ligature, the arteries will contract themfelyes, fo as that little or no bluod thall be loft; nay, fometimes, if the funis hath been tied and cut at the diftance of three finger-brcadths from the child's belly, fo that it hath been kept from bleeding for an hour
or two, although the ligature be then untied, and the navel-fring and bel-. ly chafed, and foaked in warm water, no more blood will be difcharged. See collect. xxv.

## $\mathcal{S} E \quad C \quad \pi_{0} \quad V_{0}$

## OF DELIVERING THE PLACENTA.

THE funis being feparated and the child committed to the nurfe, the next eare is to deliver the placenta and membranes, if they are not forced down by the labour-pains. We have already obferved, that if there is no danger from a flooding, the woman may be allowed to reft a little, in order to recover from the fatigue the has undergone; and that the utcrus may in contracting have no time to fqueeze and feparate the placenta from its inner furface ; during which paufe alfo, about one, two, or three cups-full of blood are difcharged through the funis from the veffels of the placenta, which is thus diminifhed in bulk, fo that the womb may be more contracted; and this is the reafon for applying one ligature only upon the cord. In order to deliver the placenta, take hold of the navel-ftring with the left hand, turning it round the fore and middle fingers, or wrapping it in a cloth, that it may not flip from your grafp; then pull gently from fide to fide, and defire the woman to affift your endcavour by training as if, fhe were at ftonl, blowing forcibly into her hand, or provoking herfelf to retch by thrufting her finger into her throat. If by thefe methods the placenta cannot be brought away, introduce your hand flowly into the vagina, and feel for the edge of the cake, which when you have found pull it gradually along; as it comes out at the os externum, take hold of it with both hands and deliver it, bringing away at the fame time all the membrancs, which, if they adherc, mult be pulled along with leifure and caution.

When the funis takes its origin toward the edge of the placenta, which is frequently the cafe, the cake comes eafier off by pulling than when the navel-ffring is inferted in the middle, unlefs it be uncommonly retained by its adhefion to the womb, or by the ftrong contraction of the os internum. If the funis is attached to the middle of the placenta, and that part prefents to the os internum or cxternum, the whole mafs will be too bulky to come along in that pofition ; in this cafe you muft introduce two fingers within the os externum, and bring it down with its edge foremoft.

When the placenta is feparated by the contraction of the uterus, in confequence of its weight and bulk it is pufhed down before the membranes, and both are brought away inverted.

When part of the placenta has paffed the os internum, and the reft of it cannot be brought along by eafy pulling, becaufe the os uteri is clofe contracted round the middle of it, or part of it ftill adhcres to the womb, flide the flat of your hand below the placenta through the os internum ; and have ing dilated the uterus, nip down your hand to the edge of the cake and bring it along; but if it adheres to the utcrus, pufh up your hand again, and hav ing feparated it cautionfly, deliver it as before.
If inftead of finding the edge or middle of theplacenta prefenting to the os externum or internum, you feel the mouth of the womb clofely contracted, you muft take hold of the navel.ftring as above $d^{*}$. Sted, and fide your wher hand along the funis into the vagina ; then fi.. . puth your fingers and thumb, joined in form of a cone, through the is hitcri, along the fame cord, to the place of its infertion in the placen, : hele let your hand
reft, and feel with your fingers to what part of the uterus the cake adheres; if ir be loofe at the lower edge, try to bring it along; but if it adheres, begin and feparate it flowly, the back of your hand being turned to the uterus; and the fore part of your fingers towards the platenta; and for this operation the nails ought to be eut fhort and fmooth.

In feparating, prefs the ends of your fingers more againf the placenta than the uterus; and if you cannot dittinguifh which is which, beeaufe they both feel equally foft (though the uterus is firmer than the placenta, and this laft more folid than coagulated blood; I fay, in this cafe, flide down your fingers to itselge, and conduct them by the feparated part, preffing it gently from the uterus, until the whole is difengaged. Sometimes, when part of it is feparated, the reft will loofen and come along, if you pull gently at the detached portion; but if this is not effected with eafe, let the whole of it be feparated in the moft eautious manner; fometimes alfo, by grafping the infide of the placenta with your hand, the whole will be loofened without farther trouble. As the placenta comes along, flide down your hand and take hold of the lower edge, by which it muft be extracted; becaufe it is too bulky to be brought away altogether in a heap; and let it be delivered as whole as poffible, keeping your thumb or fingers fixed upon the navel-ftring, by which means laceration is often prevented.

When the soman lies on her back, and the placenta adheres to the left fide of the uterus, it will be moft commodious to feparate the cake with the right hand; whereas the left hand is mot conveniently ufed when the placenta adhcres to the right fide of the womb; but when it is attaehed to the fore part, baek, or fundus, either hand will anfwer the purpofe.

That part of the uterus to which the placenta adheres, is kept ftill diftended, while all the rett of it is contrated.

The nearer the adhefion is to the os internum, the eafier is the placenta feparated, and evice terfe; becaufe it is difficult to reach up to the fundus. on aceount of the contraction of the os internum and lower part of the Fomb; which are not Aretehed again without great force, after they havé been eontracted for any length of time.
When therefore the placenta adheres to the fundus, and all the lower part of the womb is ftrongly contracted, the hand mult be foreed up in form of a cone into the vagina, and then gradually dilate the os internum and inferior part of the uterus. If great force is required, exert it חowly, refting between whiles that the hand may not be eramped, nor the vagina in danger of being toren from the womb; for in this eafe the vagina will lengtheri confideribly upward.

While you are thus employed, let and affitant prefs with both hands on the woman's belly, or while you pifh with one hand, prefs with the other in order to keep down the uterus, elfe it will rife high up; and roll about like a large hall, below the lax parietes of the abdomen, fo ds to hinder you from effecting the neceffary dilatation.

When you have overeome this contraction, and introdueed your hand in: to the fundus, feparate and bring the placenta along, as above directed ; and Mould the uterus be eontracted in the niddle like an hour-glafs, a eir: cumfance that fometimes, though rarely; happens; the fame method muft be practifed.

In every cafe, and cifecially when the plaeenta hath been delivered witli dificulty, introduee your hand after its extration, in order to examine if any part of the uterus be pulled down and inverted; and if that be the cafe.
pufh it up and reduce it without lois of time; then clear it of the coagulated blood, which otherwife may occalion violent after-pains.

For the moft part, in ten, fifteen, or twenty minutcs, more or lefs, the placenta will come away of itfelf; and though fome portion of it, or of the membrancs, be lcft in the utcrus, provided no great flooding enfues, it is commonly difcharged in a day or two, without any detriment to the woman ; hut at any rate, if poffible, all the fecundines ought to be extracted at once, and before you leave your patient, in order to avnid reflethions.

I find that, both amongit the ancients and moderns, there have been different opinions and directions about delivcring the placenta; fome alledging, that it fhould be delivered flowly, or left to come of itfelf; others, that the hand fhould be immediately introduced into the uterus, to feparate and bring it away. Before we run into extremes on either fide, it fhould be confidered. how nature of herfelf acts in thefe cafes. We find, in the common courfe of labours, that not once in fifty or an hundred times there is any thing more to be done than to receive the child. Some of the ancients have alledged, that no danger happens, on this account, oftener than onee in one thoufand labours; and as nature is for the mott part fufficient of itfelf in fuch eafes, it is very rare, perhaps not once in twenty or thirty times, that I have occafion to feparate, as it generally comes down by the common affiftance of pulling gently at the funis, and the efforts of the woman. I alfo find, that the mouth of the womb is as eafily dilated fome hours after delivery, as at any other time; fo, in my opinion, we ought to go in the middle way, never to affint but when we find it neceflary ; on the one hand, not to torture nature when it is felf-fufficient; nor delay it too long, becaufe it is poffible that the placenta may fometimes, though feldom, be retained feveral days; for if the utcrus thould he infliamed from any accident, and the homan be loft, the operator will be blamed for leaving the after-birth behind. Sce collect. xxiii.

## C H A P. II. Of Laborious Labours.

## $\begin{array}{llll}S & E & C & T\end{array}$.

HOW LABORIOUS LABOURS ARE OCCASIONED.

IN the foregoing fhects, which treat of natural labours, I have defcribed the moft cafyand fimple method of inanaging the woman, delivering the child, and extracting the placenta; but, as it fometimes happens, that we muft ufe cxtraordinary affittance for the prefervation of the woman or child, or both, I muft proceed to give directions how to behave in the laborious bitths, which more frequently occur than the preternatural.

A general outcry hath been raifed againft gentlemen of the profeffion, as if they delighted in ufing inftruments and violent methods in the courfe of their practice; and this clamour hath procceded from the ignorance of fuch as co not know that inftrunents are fomctimes abfolutely neceffary, or from the interctted views of fome low, obfcure, and illiteratc practitioncrs, both male and fenale, who think they tind their aceount in decrying the practice of their neighbours. It is not to be denied, that mifchief has been donc by inftruments in the hands of the unfkilful ant unwar:; but I am perfuaded that every judicious practitioncr will do every thing for the fafety
of patients before it has recourfe to any violent method cither with the hand or initrument, though cafes, will occur in which gentle methods will abfolutely fail. It is therefore neceffary to explain thofe rcinforcements which mult be ufed in da gerous labours; though they ought by no mcans to be called in, except when the life of the mother or child, or both, is evidently. at Itake; and cran then managed with the utinoft caution. For my own part, I have always avoided them as far as I thought confiftent with the fafety of my patients, and ftrongly inculcated the fame maxim upon thofe who have fubmitted to my inftructions.

All thofe cafes in which the head of the child prefents, and cannot be delivered in the natural way defcribed in chap. ii. fect. ii. of this bonk, are accounted more or lefs laborious, according to the different circumftances from which the difficulty arifes; and thefe commonly are, firf, great weaknefs, proceeding from the lofs of appetite and bad digeftion; frequent vomitings, diarrhceas or dyfenteries, floodings, or any other difeafe that may exhault the patient ; as alfo the fatigue fhe may have undergone by unfkilful treatment in the beginning of labour.

Secondly, from exceflive grief and anxiety of mind, occafioned by the unfeafonable news of fudden misfortune in time of labour, which often affeit her fo as to carry off the pains, and endanger her finking under the fhock.

Thirdly, from the rigidity of the os uteri, vagina, and external parts, which commonly happen to women in the firf birth, efpecially to thofe who are about the age of forty ; though it may be alfo owing to large callofities, produced from laccration or ulceration of the parts; or to glands and feirrhous tumours that block up the vagina.

Fourthly, when the under part of the uterus is contracted before the fhoulders, or the body entangled in the navel-ftring.

Fifrhly, from the wrong prefentation of the child's head; that is, when the forehead is towards the groin, or middle of the os pubis; when the face prefents with the chin to the os pubis, ifchium, or facrum; when the crown of the head refts above the os pubis, and the forehead or face is preffed into the hollow of the facrum; and laftly, when one of the ears prefents.

Sixthly, from the extraordinary offification of the child's head, by which the bones of the fkull are hindered from yiclding as they are forced into the pclvis; and from a hydrocephalus, or dropfy, diftending the head to fuch a degree, that it cannot pafs along until the water is difcharged.

Seventhly, from a too fimall or diftorted pelvis, which often occurs in very little women, or fuch as have been ricketty in their childhood. See collect. xxiv, to xxx , and tab. xxviii.

In all thefe cafes, except when the pelvis is too narrow, and the head too large, provided the head lies at the upper part of the brim, or (though preffed into the pelvis) can be eafily pußhed back into the uterus, the beit method is to turn the child, and deliver by the feet, according to the directions which fhall be given in the fequel; but if the head is preffed into the middle or lower part of the pelvis, and the utcrus ftrongly contracted zound the child, delivery ought to be performed with the forceps; and ia all the feven cafes, if the woman is in danger, and if you can neither turn nor deliver with the forceps, the head mult be opened and delivered with the crotchets Lahorious cafes, from fonue of the above-recited caufes, happen much oftener than thofe we call pretcrnatural; but thofe which proseed from a narrow pelvin, or a large head, are of the worft confequence.

Thefe cafes demand greater judgment in the operator, than thofe in which the child's head does not prefent; becaufe in thefe laft, we know that the beft and fafeft method is to deliver by the feet; whereas, in laborious births, we muft maturely confider the caufe that retards the head fron coming along, together with the neceflary affiftance required; we muft determine when we ought to wait patiently for the efforts of nature, and when it is abfolutely neceff:ry to come to her aid. If we attempt to fuccour her too foon, and ufe much force in the operation, fo that the child and mother, or one of the two, are loft, we fhould be apt to reproachiourfelves for having acted prematurely, upon the fuppofition that if we had waited a little longer, the pains might have by degrees delivered the child, or at leaft forced the head fo low as that we might have extracted it with more fafety by the affiftance of the forceps. On the other hand, when we leave it to nature, perhaps by the frong preffure upon the head and brain, the child is dead when delivered, and the woman fo exhautted with tedious labour, that her life is in imminent danger; in this cafe, we blame ourfelves for delaying our belp fo long, reflecting, that had we delivered the patient fooner, without paying fuch fcrupulous regard to the life of the child, the swoman might have recovered without having run a dangerous rifk. Doubtlefs it is our duty to fave woth mother and child, if poffible; but if that is impracticable, to pay our chief regard to the parent ; and in al! dubious cafes, to act cautiounly and circumfpetty, to the beft of our judgment and fkill.

If the head is advanced into the pelvis, and the uterus ftrongly contracted round the child, great force is required to pufl it back into the womb, becaufe the effort mutt be fufficient to ftretch the uterus, fo as to re-admit the head, together with the hand and arm ; and cven then the child will be turned with great difficulty.

Should you turn when the head is too large, you may bring down the body of the child, but the head will Itick faft above, and cannot be extracted without the help of the forceps or crotchets (fee tab: xxxv. xxxvi.) yet the cafe is ftill worfe in a narrow pelvis, even though the head be of an ordinary fize. When things are fo fituated, fou mould not attempteto turn, becaufe in fo doing, you may give the woman a great deal of pain, and yourfelf much unneceffary fatigue; you ought, therefore, to try the forceps; and if they do not fucceed, diminifh the fize of the head, and extract it as thall be afterwards fhown.

## $S \quad E \quad C \quad T: \quad I$.

## OF THF FILLETS AND FORCEPS.

WE have already obferved, that the greateft number of difficult and lingering labours, proceed from the head's fticking faft in the pelvis, which fituation is occafioned by one of the feven caufes recited above. When formerly this was the cafe, the child wa generally loft, unlefs it could be turned and delivered by the feet; or if it could be extratect alive, either died foon after delivery, or recovered with great difficulty from the long and fevere compreffion of the head, while the lifc of the mother was endangeren from the fame caufe as atove defcribed; for the preffure being reciprocal, the fibres and vefels of the foft parts contained in the pelvis, arc bruifed by the child's head, and the circulation of the fluids obitructed; fo that a violent inflammation, and fometimes a fudden mortification, ens fues. If the child could not be turned, the method practifed in there cafes,
cafes, was to open the head, and extract with the crotchet ; and this expedient produced a general clamour annong the women, who obferved, that when recourie was had to the alfitance of a man-midwife, either the mo-ther or child, or boih, were lott. This cenfure, which could not fail of being a g!eat difcouragement to male practitioners, ftimulated the ingenuity, of ieveral gentlemen of the profeffion, in order to contrive fome gentler method of bringing along the head, fo as to fave the child, without any prejucice to tlye mother.

Their endecy urs have not been without fuccefs; a more fafe and cer-. tain expedient for this purpofe hath been invented, and of late brought to greater perrection in this than in any other kingdom; fo that if we are cailed in before the child is dead, or the parts of the woman in danger of a mortification, both the fætus and mother may frequently be happily faved. This fortunate contrivance, is no other than the forceps, which was, as is alledged, firt ufed here by the Clamberlains, by whom it was kept as a noftrum, and after their deceafe, fo imperfectly known as to be feldom applied with fuccefs; fo that different practitioners had recourfe to different kinds of fillets, or lacks. Blunt hooks alfo, of various make, were invented in England, France, and other parts. The forceps, fince the tire of Dr. Chanberkin, have undérgone feveral alterations, particularly in the joining, handles, form, and compofition.

The common way of ufing them, formerly, was by introducing each blade at random, taking hold of the head any how, pulling it ftraight along, and delivering with downight force and violence; by which means both os internum and externum, were often tore, and the child's head much bruifed. On account of thefe bad confequences, they had been altogether difufed by many practitioners, fome of whom endeavoured in lieu of them to introduce divers kinds of fillets over the child's head; but none of them can be fo eafily ufed, or have near fo many advantages, as the forceps, when rightly applied and conducted, according to the directions that Shall be laid down in the next fection.

Mr. Chapman, as mentioned in the Introduction, was the firf author Who defcribed the forceps, with the method of ufing them; and we find in the obfervations of Giffard, feveral cafes in which he delivered and faved the child by the affiftance of this inftrument. A forceps was alfo contrived at Paris, a drawing of which may be feen in the Medical Eflays of Edinburgh, in a paper communicated by Mr. Butter, a furgeon. But after Mr. Chapman had publifhed a delineation of his inftrument, which was that originally ufed by the Chamberlains, the French adopted the fame fpecies, which, among them, went under the denomination of Chapman's Forceps. For my own part, finding in practice that by the directions of Chapman, Giffard, and Gregoire, at Paris, I frequently could not move the head along without contufing it, and tearing the parts of the woman; for they direct us to introduce the blades of the forceps whicre they will eafielt pafs, and taking hold of the head in any part of it, to extract with more or lefs force according to the refiftance; I began to confider the whole in a mechanical view, and reduce the extraction of the child to the rules of moving bodies in different di ections. In confequence of this plan, I more accurately furveyç the dimenfions and form of the pelvis, together with the figure of the child's head, and the manner in which it paffed along in matural labours; and from the knowledge of thefe things, I not only delivered with greater eafe and fafety than before, but alfo had the fatisfaction
to find, in teacling, that I could convey a more dittinct idea of the art in this mechanical light, than in any other; and particularly give more fure and folid directions for applying the forceps, even to the conviction of many old practitioners, when they reflect on the uncertainty attending the old method of application. From this knowledge, too, joined withexperience, and hints which have occurred and been communicated to me, in the courfe of teaching and practice, I have been led to : Iter the form and: dimenfions of the force s, fo as to avoid the inconveniences that attead the, ufe of the former kinds. See talb, xxxvii.

The confideration of mechanics, applied to midwifery, is likewife in no cafe more afeful than when the child muft be tusned and delivered by the feet; becaufe there we are principally to regard the contraction of the uterus, the pofition of the child, and the method of moving a body confined in fuch a manner ; but I have advanced nothing in mechanics but what I find-ufeful in practice, and in conveying a diftinct nution of the fereral difficulties that occur to. thofe who are or have been under my inffruction, for whom this Treatife is principally defigned.

The lacks, or fillets, are of different kinds, of which the moft fimple is a noofe made on the end of a fillet, or limber garter; but this can only be ajplied before the head is falt jammed in the pelvis, or when it can be puthed up and raifed above the brim. The os externum and internum farting been gradually dilated, this noofe muft be conveyed on the ends of the fingers, and lipped over the fore and hind-head. 'i here are alfo nther Kinds differentiv introduced ufon various blunt inftruments, too tedious either to defcribe or ufe; but the moit ufeful of all thefe contrivances, is a fillet, made in form of a fheath, mounted upon a piece of flender whalebone, about two feet in length, which is eafier ap? lied than any other expedient of the fame kind. See tab. xxxviii.

When the head is high up in the pelvis, if the woman has been long in labour, and the waters difcharged for a confiderable time, the uterus beng flrongly contracted fo as that the head and Ihoulders cannot be raifed, or the child turned to be delive.ed by the feet, while the mother is enfeebled, and the pains fo weak, that unlefs affeted, the is in danger of her life; alio when the os internum, vagina, and labia pudendi, are inflamed and tumefied; or when there is a violent difcharge of blood from the uterus, prorided the pelvis is not too narrow, nor the head too large, this fillet may be fuccefsfully ufed; in which cafe, if the os externum and internum are not already fufficiently open, they muit be gradually dilated as much as pofible by the hand, which at the fame time muit be introduced and paffed along tine fide of the head, in order to afcertain the polition thereof, This being known, let the other hand introduce the double of the whale-bone and fillct over the face and chin, where you can have the beft purchafe, and where it will be leaf apt to hip and lofe its hold. This application being effected, let the hand be brought down, and the wh ie-bone drawn from the fheath of the fillet, which (after the ends of it are tied togethei) mult be pulled during every pain, prefing at the fane time with the other hand upon the oppofire part of the head, and ufing more or lefs force according to the re: fiftance.
The difadvantage attending all fllets, is the great difficulty in introducing and fixing them; and though this laft is eafier applied than the others, yet when the vetex prefents, the child's chin is fo preffed to the brealt, that $i$ is often inpracticable to infinuate the fillet between thent,
and if it is fixed upon the face or hind-head it frequently nips off in pull 4 ing. But, granting it commodioufly fixed, when the head is large or the pelvis narrow, to that we are obliged to pull with great force, the fillet will gall and even cut the foft parts to the very bone; and if the child come's out on a fudden in confe yuence of violent pulling, the external parts of the woman are in great danger of fudden laceration: but if the head is fmall, and comes aiong with a moderate foree, the child may be delivered by this contrivance, without any bad confequence; though in this cafe, we find by experience, that unlefs the woman han fome very dangerous fymptont, the head will in tine flide gradually down into the pelvis, even when it is too large to be extracted with the fillet or forceps, and the child be fafely delivered by the lahour-pains, although flow and lingeriag, and the mother fuens weak and exhaufted, provided fhe be furported with nourihing and ftrengthening cordials.

From what I have faid, the reader ought not to imagine that I am more bigatted to any one contrivance than to another. As my chief ftudy hath been to improve the Art of Midwifery, I have confidered a great many different methods, with a view of fixing upon that which hould belt fucceed in practice: I have tried feveral kinds of lacks, which have been from time to time recommended to me; and in particular, the lattmentioned fillet, which was communicated to me by the learned Dr. Mead in 1743 . As this fillet could, in all appearance, be more eafily introduced than any other, I, for feveral years, carried it with me when I was called in dificult cafes, and fomerimes ufed it accordingly : but I generally found the fixing of this, as well as all other lacks, fo uncertain, that I was obliged to have recourfe to the forceps, which being introduced with greater eafe, and fixed with more certainty, feldom failed to anfwer the purpufe better than any other method hitherto found out: but let not this affertion prevent people of ingenuity from employing their talents in improving thefeor any other methods that may be fafe and ufeful; for daily experience proves that we are ftill imperfect, and very far from the ue plus ultra of difcovery in arts and fciences; though I hope every gentleman will defpife and avoid the charaiter of a felfinh fecret-monger.

As the hear in the 6th and $7^{\text {th }}$ cafes is forced along the pelvis, commonly in thefe laborious cafes the bones of the cranium are fo comprefied, that they rideover one another, fo that the bulk of the whole is diminifned, and the head, as it is puthed forward, is, from a round, altered into an oblong figure: when therefore it is adranced into the pelvis, where it -ficks fatt for a confiderable time, and c noot be delivered by the labourpains, the foceps may be intro)duced with great eafe and fafety, like a pair of artificial hands, by which the head is very little (if at all) marked, and the worm very feldom tore. Eut if the head is detained above the brim of the pelvis, or a finall portion of it only farther advanced, and it appears that the one being ton narrow, or the other too large, the woman cannot be dlivered by the ftrongeit labour-pains: in that cafe the child cannot be faed, either by turning and bringing it by the feet, or delivered by the applcation of fillet or furceps; but the operator mult unavoidably ufe thedifagreeable method of extracting with the crotchet. Neverthelefs, in 11 thefe eafes, the forceps ought firft to be tried ; and fometimes they fill fucceed beyond expectation, provided the birth is retarded by the wealnefs of thic woman, and the fecond, third, fourth, or lifth obftuctions But they cannot be depended upon, even when the vertex prefents, wh the forehead to the fide or back part of the pelvis, and
(though
though the woman has had ftrong pains for many hours after the memsbranes are broke) the head is not forced down into ithe pelvis, or at leait but an inconfiderable part of it, refembling the fmall end of a fugar-loaf; for, from thefe circumfances, you may conclude, that the largeat part of it is ftill above the brime, and that either the head is ton large or the pelvis too narrow. Even in thefe cafes, indeed, the lait fillee, or a long pair of forceps, may take fuch firm hold, that with great force and ftrung purchafe the head will be delivered: but fuch violence is commonly fatal to the woman, by caufing fuch an inflammation, andi perhips laceration, of the parts, as is attended with mortification. In order to di able young practitioners from running fuch rifks, and to free myfelf from the temptation of ufing ton great force, I have always ufed and recommended the forceps fo fhortin the handles, that they cannot be ufed with fuch violence as will endanger the woman's life; though the purchafe of them is fufficient to extract the head, when one-half or two-thirds of it are equal to, or paft, the upper or narrow part of the pelvis.

When the head is high the forceps may be locked in the middle of the pelvis; but in that cafe great care muft be taken in feeling with the finger's all round, that no part of the vagina be included in locking. Sometimes, when the head relts, or is preffed too much on the fore part or fide of the pelvis, either at the brim or lower down, by introducing one blade it may be moved farther down, provided the labour-pains aie itrong, and the operation affited by the fingers of the other $h$ ind applied to the oppofite fide of the head ; but if the fingers cannot reach high erough, the beit method is to turn or move the blade towards the ear of the child, and introduce the other along the oppofite fide.

In a narrow pelvis I have fometimes found the head of the child thrown fo much forward over the os pubis, by the jutting-in of the facrum and lower vertebra of the loins, that I could not pufn the handies of the forceps far enough back to include within the blades the bulky part of the head which lay over the pubes. To remedy this inconveniene, I contrived a longer pair, curved on one fide, and convex on the other: but thefe ought never to be ufed except when the head is fimall; for, as we have already obferved, when the head is large, and the greatelt part of it remains above the brim, the parts of the woman may be inflamed and contufed by the exertion of too much force. Neverthelefs, this kind of forceps may be advantageoully ufed when the face prefents and is low down, and the chin turned to the facrum; becaufe, in that rafe, the occiput is towards the pubes, for that the ends of the blades can take firmer hold of the head; but then the chin camot be turned below the fubes fo eafily with thefe as with the other kind, nor the hind-head be brought below thece laft bones, See tab. xxri.
ceneral rules for using the forceis.

THE farther the head is advanced in the pelvis, the eafier $t$ is delivered with the forceps ; becaufe then, if in the 6th or 7 th cafe, it is changed from a round to an oblong figure, by lieing forced along ty the labourpains; on the contrary, when the head remains high up, reting upon the brim of the pelvis, the forceps are uled with greater difficuly and uncertainty.

The os externum muft be gradually opened by introducing the fingers one after another in form of a cone, after they have been lubricated with pomatum, moving and turning them iin a femicircular motion as they are prithed up. If the head is folow down that the hand cannot be introduced high up in this form; let the parts be dilated by the fingers turned in the direction of the coccyx, the back of the hand being upwateds, next to the child's head : the external parts being fufficiently opened to admit all the fingers, let the back of the hand be turned to the perinxum, while the fingers and thumb, being flattened, will nide along betwixt the head and the os facrum. If the right-hand be ufed, let it be turned a little to the left fide of the pelvis, becaufe the broad ligament and menibrane that fill up the fpace between the facrum and ifchia, will yield and allow more room for the fingers to adyance ; for the fame reafon, when the left-hand is introduced, it mult be turned a little to the right fide. Having gained your point fó far, conitinue to pufh up, until yout fingers paifs the os internum; at the fame time, with the palm of your hand, raife or fcoop up the head, by which means you will be more at liberty to reach higher, dilate the internal parts, and dittinguifh the fituation and fize of the head, tögether with the dimenfions of the pelvis; from which inveftigation yoit will be able to judge whether the child ought to be turned and brought by the feet, or delivered with the forceps; or, if the labour-pains are trong, and the hcad prefents tolerably fair, without being jammed in the pelvis; you will refolve to wait fome time, in hope of fecing the child delivered by the labour-pains, efpecially when the woman is in no immediate danger, and the chief obftacle is the rigidity of the parts.

The pofition of the head is dititinguifhed by feeling for one of the ears; the fore or fineoth part of which is towards the face of the child: if it cannot be afcertained by this mark, the hand and fingers muft be pufhed farther up, to feel for the face or back part of the neck; but if the head cannot be traced, the obfervation mult be taken from the fontanel, or that part of the cranium where the lambdoidal crofics the end of the fagittal future. When the ears of the child arc towards the fides of the pelvis, or diagonal, the forchead beinig either to the facrum or pubes, the patient mult lie on her back, with her breech a little over the bed, her legs and thighs being fupported as direeted in chap. ii. fect. i. and chap. iv. feet. iv. If one ear is to the facrum, and the other to the pubes, the muft be laid on one fide, with her breech over the bod, as before, her knees being pulled up to her belly, and a pillow placed between them; except when the upper part of the facrum juts too nifuch forward, in which cafe fhe mult lie npon her back, as above deferibed.

The blades of the forceps ought always, if poffible, to he introduced along the cars; by which means they approach nearer to each other, gain a firmer hold, and hurt the head lefs than in any other direction: frequently, indced, mot the lealt mark of their application is to be perceived; whereas, if the blates are applied along the forchead and occiput, they are at a greatcr ditance from each other, require more room, frequently at their points prefs in the bones of the fkull, and endanger a laceration in the os externum of the woman. Sec tal. xti.

The woman being laid in a right pofition for the application of the forceps, the blades ought to be privately convered between the feather-bedand the clothes, at a fmall ditance from one inotier, or on eacla fide of tine patient : that this convcyance may be the more cafily effected, the legs of the inftrument ought to be irept in the operator's ide-poetects. Thiss
provided, when he fits down to deliver, let him fpread the fheet that hangs over the bed, upon his láp, and, under that cover, take out and, difpofe the blades on each fide of the patient; by which means he will often be able to deliver with the forceps, without their being perceived by the woman herfelf or any other of the affiltants. Some people pin a fheet to each fhoulder, and throw the other end over the bed, that they may be the more effectually concealed from the view of thofe who are prefent ; but this method is apt to confine and embarrafs the operator. At any rate, as women are commonly frightened at the very name of an inftrument, it is advifable to conceal thein as much as poffible, until the character of the operator is fully eftablifhed.

THE DIFFERENT WAYS OF USING FORCEPS.

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## When the head is down to the os externum.

WHEN the head prefents fair, with the forehead to the facrum, the occiput to the pubes, and the ears to the fides of the pelvis, or a little diagonal ; inthiscafe, the head is commonly pretty well advanced in the bafon, and the operator feldom mifcarries in the ufe of the forceps. Things being thus fituated, let the patient be laid on her back, her head and fhoulders being fomewhat raifed, and the breech advanced a little over the fideor foot of the bed, while the affiftants, fitting on each fide, fupport her legs, at the fame time keeping lee knees duly feparated and raifed up to the belly, and herlower parts always covered with the bed-clothes, that the may not be apt to catch cold. In order to avoid this inconvenience, if the bed is at a great diftance from the fire, the weather cold, and the woman of a delicate conflitution, a chafing-difh with charcoal, or a veflel with warm water, fhould be placed near or under the bed. Thefe precautions being taken, let the operator placc himfelf upon a low chair, and having lubricated with pomatum the blades of the forceps, and alfo his right hand and fingers, flide firt the hand gently into the vagina, pufhing it along in a flattened fo:m, between that and the child's liead, until the fingers have pafied the os internum; then with his other hand, let him take one of the blades of the forceps from the place where it was depofited, and introduce it betwixt his right-hand and the head; if the point or extremity of it thould ftick at the ear, let it be flipped back ward a little, and then guided forward with a flow and deficate motion; when it thall have paffed the uteri, let it be advanced ftill farther up, until the reff, at which the blades lock into each other, be clofe to the lower part of the head, or at lealt withn an inch thereof.

Having in this manner introduced one blade, let him withdraw his right hand, and influuate his left, in the fame direction, along the other fide of the head, until his fingers fhall have paffed the os internum; then taking out the other blade from the place of concealment, with the hund that is difengaged, let it be applied to the other fide of the child's head, by the fane means e:aployed in introducing the firtt ; then the left-hand muft be withdrawn, and the head being embraced between the blades, let them be locke! in each other. Having thus, fecured them, he muft take a firm hold with both hands, and when the pain comes on, begin to pull the head along from fide to fide; continuing this operation during every pain until the vertex appears through the os externum, and the neck of the child can be felt with the finger below the os pubis; at which time the forehead pufhes out
the perinxum like a large tumour; then let him ftand up, and raifing the handles of the forceps, pull the head upwards alfo, that the forehead being turned half round upwards, the perinxum and lower parts of the os externum may not be tore.

In ftretching the os externum or internum we ought to imitate nature; for, in practice, we find, that when they are opened flowly, and at intervals, by the inembranes with the watcrs or the child's head, the parts are feldom inflamed or lacerated; but in all natural labours, when thefe parts are fuddenly opened, and the child dilivered by ftrong and violent pains, without much intermiffion, this misfortune rometimes happens, and the woman is afterwards in great pain and danger.

We ought therefore, when obliged to dilate thofe parts, to proceed in that flow deliberate manner ; and though, upon the firt trial, they feel fo rigid, that one would imagine they could never yield or extend; yet, by ftretching with the hand and relting by intervals, we can frequently overcome the greatelt refiftance. We muft alfo, in fuch cafes, be very cautious, pulling ilowly, with intermiffions, in order to prevent the fame lacerition; for which purpofe too, we ought to lubricate the perinæum with pomatum during thofe fhort intervals, and keep the palm of one hand clofe preffed to it and the neighbouring parts, while with the other we pull at the extremity of the handles of the furceps; by which means we preferve the parts, and know how much we may venture to pull at a time. When the head is almolt delivered, the parts thus ftretched muft be חipped over the forehcad and face of the child, while the operator pulls upwards with the other hand, turning the handles of the forceps to the abdomen of the woman. This method of pulling upwards raifes the child's head from the perinæum, and the halfround turn to the abdomen of the mother brings out the forehead and face from below; for when that part of the hind-head which is joined to the neck reits at the under part of the os pubis, the head turns upon it as upon an axis. In preternatural cafes alfo, the body bcing delivered, mult in the fame manner be raifed up over the belly of the mother, at the fame time the perinæum flipped over the face and forehead of the child.

In the introduction of the forceps, let each blade be purhed up in an imaginary line from the os externum to the middle face betwixt the navel and icrobiculus cordis of the woman; or, in other words, the handles of the forceps are to be held as far back as the perinaum will allow. The introduction of the other hand to the oppofite fide, will, by preffing the child's head againft the firft blade, detain it in its proper place till the other can be applied ; or, if this preffure fhould not feem fufficient, it may be fupported by the oferator's knee.

When the head is come low down, and cannot be brought farther, becaule one of the fhoulders refts above the os pubis, and the other upon the upper part of the facrum, let the head be ftrongly grafped with the forceps, and puthed up as far as poffible, moving from blade to blade as you pufh up, that the fhoulders may be the more eafily moved to the fides of the pelvis, and turning the face or forehead a little towards one of them; then the forehead muit be brought back again into the hollow of the facrum, and another cffort made to deliver ; but fhould the difficulty remain, let the head be pufhed up again, and turned to the other fide; becaufe it is uncertain which of the fhoulders refts on the os pubis or facrum. Suppofe, for example, the right fhoulder of the child flicks above the os pubis, the forehead being in the hollow of the facrum; in this cafe, if the forehead be turned to the
right-hand fide of the woman, the fhoulder will not nove; whereas, if it be turned to the left, and the head at the fame time puthed a little Hpwards, fo as to raile and difengage the parts that are fixed, the right fhoulderibeing towards the right-hand fide and the other to the left lide of the brim of the pelvis, when the forehead is turned back agmin to the hollow of the faeruni, the obftacle will be removed, and the hcad be nore eafily deriverd. This being performed, let the foreeps be unlocked and the blades difpofed cautiouflj under the clothes fo as not to be difcovered; then proceed to the delivery of the child, which, when the navel-ftring is cut and tied, nay bee comnitted to the nurfe. The next care is to wipe the blades of the forceps fingly, under the clothes, flide them waily into your pockets, and deliver the placenta.

Though the foreeps are covered with leatlier, and appear fo fimple and innocent, I have given directions for conecaling them, that young practitioners, before their charaters are fully ellablifhed, may avoid the calumnies and mifreprefentations of thofe people who are apt to prejudicc the ignorant and weak-minded againft the ufe of any infrument, though ever fo neceifary, in this profellion; and who, taking the advantage of uaforelicery accidents which may afterwards happen to the patient, charge the whole misfortunc to the innocent nperator. See collctt:, xxvii, and tab, xiv, xrii. xviii, dix.

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## WHEN THE FOREETEAD IS TO THE OS PUBIS,

WHEN the forehead, inftead of being towards the facrum, is turned forwards to the os pubis, the woman mutt be laid in the fane pofition as in the former cafe; becaufe here alfo the ears of the child arc towards the fides of the pelvis, or a little diagonally fituated, provided the forehead is towards one of the groins. The blades of the forceps being introduced along the ears, or as near them as poffible, according to the foregoing directions, the head muit be puftied up a little, and the forehead turned to one fide of we pelvis; thus let it be brought .long until the hind-head arrives at the lower part of the ifchium; then the forchead mult be turned backward, into the hollow of the facrum, and even a quarter or more to the contrary fide, in order to prevent the fhouiders from hitching on the upper part of the os pubis, or facrum, fo that they may be fill towards the fides of the pelvis; then let the quarter-turn be reverfed, and the forehcad heing replaced in the hollow of the facrum, the head m::y be extraged as above. In performing thefe different tums, let the head be pufthed up or pulled down occafionally as it mects with feaft refitance. In this $\mathrm{c} f$, when the head is fmall, it will come along as it prefents; but if large, the chin will be fo much preffed againt the brealt, that it cannot be brought up with the half-round turn, and the woman will be tore if it comes along. See collect. xxivii, and talb, xx, xai.

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## Witen it hrisents fair at the brim of the pelvis.

WHEN the forchead and face of the child are turned to the fide of the relvis (in which cafe it is higher than in the firt fituation) it will bei difficult, if the woman lies on her back, to introduce the forceps fo as to grafi.
the head with a blade over each ear ; becaufe the head is often prefled fo hard againt the bones, in this poition, that there is no room to infinuate the fingers between the ear and the os pubis, fo as to introduce the blades fafely on the infide of the os internum, or puth one of them up between the fingers and the child's head. When things are fo fituated, the beft pofture for the womain is that of lying on one fide, as furmerly directed, becaufe the tones will yield a little, and the forceps (of confequence) may be the more effily introduced.
Suppufe her lying on her left fide, and the forehead of the child turned to the fame fide of the pelvis, let the finger of the operator's right hand be introduced along the ear, between the head and the os pubis, until they pafs the os internum; if the head is fo inmoveably fixed in the pelvis, that there is no paffage between them, let his left hand be pufhed up between the facrum and the child's head, which being raifed as high :"s poffible above the brinn of the pelvis, he will have room fufficient for his fingers and forceps; then let him fide up one of the blades with the right hand, remembering to prefs the handle backwards to the perinæum, that the point may humour the turn of the facrum and child's head; this being effected let him withdraw his left hand, with which he may hold the handle of the blade already introduced, while he infinuates the fingers of his right hand at the os pubis, as betore directed, and pufhes up the other blade fowly and gently, that he mav run no rilk of hurting the os internum or bladder; and here alfo keep the handle of it as far lackwards as the perinæum will allow; when the point has pafied the os internum, let him flide it up farther, and join the legs by locking them together, keeping them fill in a line with the midule fpace, hetwixt the navel and ferobiculus cordis. Then let him pull along the head, moving it from fide to fide, or from one ear of the child to another: When it is fufficiently advanced, let him mov: the forehead into the hollow of the facrum, and a quarter-turn farther, then bring it back into the fame cavity; but if the head will not eafily come along, let the woman be turned on her back, after the forceps have been fixed, and the handles firmly tied with a garter or fillet; let the hind-head be pulled half, round outwards, from below the os pubis, and the inftrument and child managed as before.

In all thofe cafes that require the forceps, if the head cannot be raifed above the brim of the pelvis, or the fingers introduced within the os internum, to guide the points of the forceps along the cars, efpecially at the offa pubis, ilchia, or facrum, let the fingers aud hand be pufhed up as far as they will go along the open fpace betwixt the facrum and ifchium; then one of the blades may be introduced, moved to, and fixed over the ear, the fituation of which is already known ; the other hand may be introduced, and the other blade conducted in the fame manner on the oppofite fide of the pelvis; but before they are locked together, care muft be taken that they be exactly oppofite to each other, and both fufficiently introduced. In this cafe, if the operator finds the upper part of the facrum jutting-in fo much that the point of the forceps camert pars it, let him try with his hand to turn the forehead a little backwards, fo that one car will be toward the groin; and the other toward the fide of that prominence; confequently there will be more room for the blades to pafs along the ears; but if the forehead fhould remain inmoveable, or, though moved, return to its former place, let one blade be introduced behind one ear, and its fellow before the other; in which cafecte introduction is fometimes more eafily per-
fromed when the woman lies on her back, than when fhe is laid on one fide. See collect. xxix. and tab. xiii. xvi.

## $N \quad U M$ B. $I V$.

## WHEN THEFACE PRESENTS.

WWen the face prefents, refting on the upper part of the pelvib, the head ought to be pufhed up to the fundus weri, the child turned and brought by the fect, according to the directions that will be given when we come to treat of preternatural deliverics; becaufe the hind-head is turned hack on the fhoulders, and, unlefs very fmall, cannot be pulled along with the forecps; but fhould it advance pretty faft in the pelvis, it will tee fomezines delivercd alive without any afiftance. But if it defcends flowly, or, affer it is low down, fticks for a confiderable time, the long preffure on the brain frequently deftroys the child, if not relieved in time by turning or exuaxting, with the forceps.

When the head is detained very high up, and no figns of its defcending 2ppear, and the opcrator, having ftretched the parts with a view to turn, difcovers that the pelvis is narrow and the head large, he muft not proceed with turning, becaufe after this hath been performed, perhaps with great dificulty, the head cannot be delivered without the affiftance of the crotchet. No doubt it would be a great advantage in all cafes where the face or forehead prefents, if we could raife the head fo as to alter the bad pofition, anci move is fo with our hand as to bring the crown of the head to prefent; and inceed this thould always be tried, and more efpecially when the pelvis is too narrow, or the head too large, and when we are dubious of faving the child by turning; but frequently this is impoffible to be done when the *aters are evacuated, the uterus frongly contracted on the child, and the upper part of tie head fo flippy as to elude our hold; infomuch, that eren when the preffure is not great, we fellom fucceed unlefs the head is fimall, aiad then we can fave the child by turning. If you fucceed, and the woman is ftrong, go on as in natural labour; but if this fails, then it will be more advifeable to wait with patience for the defcent of the head, fo as that it may be delisered with the forceps, and confequently the child may be faved; but if it ftill remains in its high fituation, and the woman is weak and exhaufed, the forceps inay be tricd; and fhould they fail, recourfe muft be had to the crotchet, becaufe the mother's life is always to be more regarved than the fafety of the child.
1 When the face of the child is come down, and ficks at the os externum, the greatest part of the head is then fqueezed down into the pelvis, and, if not fipeedily delivered, the child is frequently loft by the violent compreffion of the brain; hefides, when it is fo low down, it feldom can be returned, on account of the great contraction of the uterus. In this cafe, when the chin is turned towaids the cos pubis, at the lower part of that bone, the woman mun be laid on !er back, the forceps introduced as formerly directed in the firlt caic, and when the chin is brought out from under the os pubis, the head muft be pulled half round upward, by which means the fore and hind-head will be raifed from the perinæum, and the under part of the os internum prevented from being tore.

If the chin points to either fide of the pelvis, the woman mun be laid on her fide; the blades of the forceps introduced along the ears, one at the os pubis, and the other at the facrum ; and the chin, when brought lower down, turned to the pubis, and delivered; for the pelvis being only two
inches in depth at this place, the chin is eafily brought from under it, and then the head is at liberty to he turned holf-round upward; becaufe the chin, being difengaged from this bone, can bc pulled up over it externally; by which means two inches of room at leaft will be gained for the more eafy delivery of the fore and hind-head, which are now preffed againit the: perinzum. When the chin is towards the facrum, and the hind-liead preffed back betwixt the fhoulders, fo that the face is kept from rifing ap beiow the os pubis, the hend mult be purhed up with the hand to the upperpart of the pelvis, and the forceps introduced and fixed on the ears; the hiad-. head mult be turned to one fide of the pelvis, while the chin is moved to the other fide, and, if polfible, to the lower part of the ifchium; then the: hind-head mult be brought into the hollow of the facrum, with the chinbelow the os pubis, and delivered as above directed. If this cannot be dore, let the operator try with the forceps to pull down the hind-head below the os pubis, and at the fame time with the fingers of the other hand puthe the: face and forchead backwards and upwards into the hollow of the facrume.

For when the chin points to the baek part of the pelvis, the forchead is fqueezed againft the os pubis, while the hind-head is prefied upon the back' betwixt the thoulders; fo that the head cannot be delivered unlefs the occi-. put can be brought out from below the os pubis, as formerly defcribed. See: tab, xxiii. xxv, xxvi.

## $N \quad U \quad M \quad B: \quad V$.

THE fun of all that has been faid on this head, may be comprehended in the following general maxims:
Young practitioners are often at a lofs to know and judge by the touch in the. vagina, when the head is far enough down in the bafon for ufing the forcepss. If we were to take our obfervations from what we feel of the head at the os pubis, we fhould be frequently deceived, becaufe in that place the pelvis is only two inches in depth, and the head will feem lower down than it really , is; but if in examining backwards, we find little or no part of it towards: the facrum, we may be certain that all the head is above the brim; if we find it down as far as the middle of the faerum, one-third of it is advanced; if as far down as the lower part, one-half; and in this cale, the largeft part is equad with the hrim. When it is in this fituation, we may be almoft certain of focceeding with the forceps; and when the head is fo low as to protrude the external parts, they never fail. But thefe things will differ according to different circumftances, that may oceafion a tedious delivery.

Let the operator aequire an aecurate knowledge of the figure, fhape, and dimenfions of the pelvis, together with the flape, fize, and pofition of the child's head.

Let the breech of the woman be always brought forwards a little over the bed, and her thighs pulled up to her be!ly, whether the lies on her fide or baek, to give room to apply and to move the forceps up or down or from fide to fide.

Let the farts be opened and the fingers pals the os internum ; in order to which, if it cannot he orherwife accomplithed, let the head be raifed two or three inclies, that the fingers may have inore room; if the head can be raifed above the brim, yous hand is not confincd by the bones; for, as we have already obferved, the pelvis is wider from fide to fide at the brim than at the lower part ; if the fengers are not paft the os uteri, it is in danger of being included betwixt the forceps and the child's head.

The forceps, if poffible, floould pafs along the cars, becaufe in that cafe they feldom or never hurt or mark the head.

They ought to be pufhed up in an imaginary line, towards the middle foace between the navel and fcrobiculus cordis, otherwife the ends will run ag inft the facrum.

The forehead ought always to be turned into the hollow of the facrum, when it is not already in that fituation.

When the face prefents, the chin mult be turned to below the os pubis, and the hind-head into the hollow of the facrum.

When the fhoulders reft at the pules, where they are detained, the head muft be turned a large quarter to the oppofite fide, fo as that they may lie towards the fides of the pelvis.

The head mult be always brought out with an half-round turn, over the outficle of the os pubis; for the prefervation of the perinxum, which muft at the fame time be fupported with the flat of the other hand, and nide gently backwards over the head.
: When the bead is fo low as to protrude the parts in form of a large tumour, and the vertex hath begun to dilate the os externum, but, inftead of advancing, is long detained in that fituation, from any of the forementioned caufes of laborious cafes, and the operator cannot exactly diftinguifh the polition of the head, let him introduce a finger between the os pubis and the head, and he will frequently find the back part of the neck, or one ear, at the fore part or towards the fide of the pelvis. When the fituation is known, he needs not ftretch the os externum, and raife the head, as formerly directed; but he may introduce the forceps, and, they being properly joined and their handles tied, pull gently during every pain, or, if the pains are gone, at the interval of four or five minutes, that the parts may be flowly dilated, as they are in the natural labour ; but when the fituation cannot be known, the head nught to be raifed. The fame method may alfo be taken when the face prefents, and is low in the pelvis, except when the chin is toward the back part ; in this cafe the head ought to be raifed likewife.

Almoft all thefe directions are to be followed, except when the head is fmali: in which cafe it may be brought along by the force of pulling: but this only happens when the woman is reduced, and the labour-pains are not fufficient to deliver the child; for the lower part of the uterus may be fo itrongly contrated before the fhoulders, and fo clofe to the neck of the chidd as to prevent its advancing, even when the head is fo loofe in the pelvis, that we can fometimes pufh our fingers all round it: and this is frequently the occafion of preventing the head being delivered when low in the pelvis. The difficulty, when high up, is from the reltraint at the brim; and when it paffis that, the head is feldom retained in the lower part, unlefs the patient is weak. In this cafe we need not wait, becaufe we are commonly certain of relieving the woman immediately with the forceps, by which you prevent the danger that may happen, both to the mother and child, by the head continuing to lodge there too long. This cafc flould be a caution againft breaking the inembranes too foon, becaufe the uterus may contract too forcibly and too long before the thoulders: when the head in this cafe is advanced one-third or half-way on the outfide of the os externum, if the pains are ftrong, this laft inconvenience is frequently remedied by introducing your two fingers into the rectum, as formerly-dirceted. By thefe 1ules, delivery may (for the moft part) be performed with cafe and fafety. Neverthelels the head is fomermes to
fqueezed and locked in the pelvis, and the häiry fealp fo much frolled, that it is impracticable to raife up the head fo as to come at-the ears or os internum, or to diftinguifh the futures of the fkull fo as to know how the head prefents. In this cafe the forceps muft be introduced at random, and the uncertainty of the pofition generally removed by remembering; that in thofe cales where the head is fqueezed down with great difficulty; the ears are for the moit part towards the os pubis and facrum ; and that the forehead feldom turns into the hollow of the facrum, before the occiput is come down to the lower part of the ifchium ; and then rifes gradually lowards the under part of the os pubis, and the perinæum and anus are forced down before it in form of a large tumour:

On fuch occafions, the woman being laid on her fide, if one ear is to the facrum and the other to the os pubis, the blades of the forceps are to be introduced ; and if they meet with'any refiltance at the poinss, they muft not be forcibly thrutt up, left they pals on the outfide of the os uteri and tear the vagina, which together with the womb would be included in the inftrument and pulled along with the head: for this reafon, if the blade does not eafily pafs; let it be withdrawn a little downwards, as before directed, and pufhed up again, moving the point clofe to the head; if the ear-obitructs its paffage, ler the point be brought a little outwards: and by thefe cautious effays it will at length pafs without farther refiftance, and ought to be advanced a confiderable way in order to certify the operator that he is not on the outfide of the os internum.

When the forceps are fixed; and the operator uncertain which way the forehead lies; let him pull flowly, and move the head with a quarter-turn. firlt to one fide, and then to the other, until he fhall have found the direction in which it comes moft eafily along.

If at any tipne we find the forceps begin to flip, we muft reft and puif: them up again gently : but if they are like to flide off at a fide, untie the handles, and move them fo as to take a firmer hold; fix as before, and deliver. If we are obliged to hold with both hands, the parts may be fupported by the firm application of an affiftant's hand : for without fuch cautious management they will run a great rifk of being lacerated; a misfortune which rarely happens when the perinæum is properly preffed back, and the head leifurely delivered. Sometimes, when the head is brought low down, you may take off the forceps, and help along with your fingers on each fide of the coccyx, or in the rectum, as directed in the natural labour.

If the head is low down, the ears are commonly diagonal, or to the fides; and when the head is brought down one-third or one-half through the os externum, the operator can then certify himfelf whether the forebead is turned to the coccyx or os pubis, by feeling with his finger for the back part of the neck or ear, betwixt the os pubis and the head; and then move the head as above directed.

Let him'try to alter with his hand every bad pofition of the head; and. if it be detained liigh up in the pelvis, in confequence of the woman's weaknefs, the rigidity of the parts; the circumvolutions or fhottnefs of the funis, or the contraction of the uterus over the fhoulders of the child; the forceps will frequently fucceed when the feetus cannot be turned; but if the head is large or the pelvis narrow, the child is feldom faved either by turning or ufing the forceps, until the head fhall be farther advanced. And here it will not be amifs to obferve, that the blades of the forceps ought to be new-covered with itripes of wafl-leather after they fhall
have been ufert, especially in delivering a woman fufpected of having as infectious diftemper. See collect. xxx.

## $\begin{array}{lllll}S & E & C & T & V .\end{array}$

WHEN AND HOW TO USE THE CROTCHET.
$N . U M B . \quad I$.

## THE SIGNS OF A DEAD CHILD

WHEN the head prefents, and cannot be delivered by the labour. pains; when all the common methods have been ufed without fuccefs, the woman being exhaufted, and all her efforts vain; and when the child cannot be delivered without fuch force as will endanger the life of the mother, becaufe the head is too large or the pelvis too narrow ; it then becomes absolutely neceffary to open the head and extract with the hand, forceps, or crotchet. Indeed, this laft method formerly was the common practice when the child could not be eafily turned, and is fill in use with thofe who do not know how to fave the child by delivering with the forseeps; for this reafon their chief care and fudy was to diftinguifh whether the foetus was dead or alive; and as the figns were uncertain, the operaion was often delayed until the woman was in the molt imminent danger ; or, when it was performed fooner, the operator was frequently accufed of rafhnefs, on the fuppofition that the child might in time have been delivered alive by the labour-pains. Perhaps he was fometimes confcious to himself of the justice of this imputation, although what he had done was with an upright intention.

The figns of a dead foetus were, firth, the child's ceafing to move and fir in the uterus. Secondly, the evacuation of meconium, though the breech is not preffed into the pelvis. Thirdly, no perceivable pulsation at the fontanel and temporal arteries. Fourthly, a large felling or tumour of the hairy fcalp. Fifthly, an uncommon laxity of the bones of the cranium. Sixthly, the difcharge of a foetid ichor from the vagina, the effluvia of which furrounding the woman, gave rife to the opinion that her breath conveyed a mortified fuel. Seventhly, want of motion in the tongue when the face prefents. Eighthly, no perceivable pulfation in the arteries of the funis umbilicalis, when it falls down below the head; nor at the writ, when the arm prefents; and no motion of the fingers. Ninthly, the pale and livid countenance of the woman. Tenthly, a collapsing and faccidity of the breafts. Eleventhly, a coldness felt in the abdomen, and weight, from the child's falling, like a heavy ball, to the fide on which the lies. Twelfthly, a feparation of the hairy fcalp on the flighteft touch, and a diftinct perception of the bare bones.
All or moot of thee figns are dubious and uncertain, except the lift, which can only be observed after the foetus hath been dead feveral days. One may alpo certainly pronounce the child's death, if no pulfation hath been felt in the navel-ftring for the face of twenty or thirty minutes; but the fame certainty is not to be acquired from the arm, unless the kin can be tripped off with cafe.

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N \quad U \quad M \quad B . \quad I I .
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WHEN THE CROTCHET IS TO BE USED.
MIDWITERY is now fo much improved, that the neceffity of deftroying the child does not occur fo often as formerly: Indeed it never mould be done, except when it is impolfible to turn or deliver with the
forceps; and this is feldom the cafe but when the pelvis is too narrow, or the head too large to pafs, and therefore refts above the brim. For this reafon, it is not fo neceflary for the operator to puzzle himfelf about dubious figns; becaufe, in thefe two cafes, there is no room for hefitation; for if the woman cannot poffibly be delivered in any other way, and is in imminent danger of her life, the beft practice is undoubtedly to have recourfe to that method which alone can be ufed for her prefervation, namely, to diminifh the bulk of the head.

In this cafe, inttead of deftroying, you are really faving a life; for, if the operation be delayed, both mother and child are loft.

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THE OLD METHOD OF EXTRACTING THE HEAD,
VARIOUS have been the contrivances intended for this purpofe. Some practitioners, when the head did not advance in the pelvis, introduced the $\int p e c u l u m$ matricis, in order to ftretch the bones afunder, and thereby increafe the capacity of the bafon; if, after this operation, the woman could not be delivered with her pains, they fixed a large ferew in the head, by which they pulled with great force. Others opened the head with a large biltory, or a fhort broad-bladed knife in form of a myrtle-leaf, or with a crooked biftory with a long handle; then a fmall pair of forceps with teeth were introduced; and one blade being infinuated into the opening, they laid hold of the fkull and pulled the head along; they likewife made ufe of different kinds of crotchets both fharp and blunt; and when the head was lower down, they practifed the fame expedient.

Albucafis has alfo given the draught of an inftrument, which is both for opening and extracting the head; the point and wings are forced through the cranium, and when turned the contrary way, the two wings are forced to take hold of the infide.

There are othcr later contrivances ufed and recommended by different gentlemen of the profeffion, fuch as Mauriceau's tire-tete, Simpfon's fcalpring, and Oald's tevebra occulta, with the improvement made in it by Dr. Burton, of York ; and all thefe inftruments may be ufed with fuccefs, if cautioufly managed, fo as not to injure the woman; except the $\int p e c u l u m n$ matricis, which far from anfwering the fuppofed intention of it, namely, to extend the bones of the pelvis, can ferve no other purpofe than that of bruifing or inflaming the parts of the woman.
The following method, if exactly followed according to the circumflances of the cafc, feems of all others hitherto invented, the eafieft, fafeft, and moft certain, efpecially when it requires great force to extract the head.

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THE METHQD OF USING THE SCISSARS, BLUNT-HOOK, AND CROTCHET. WHEN the head profents, and fuch is the cafe that the child can neither be deliverd by turning nor cxtracted with the forceps, and it is abfolutely neceffary to deliver the woman ta fave her life, this operation muft then be performed in the following manner:

The operator mult be provided with a pair of curved orotchets, made acs cording to the improvements upon thofe propofed by Mefnard, togethe: with a pair of feiffars about nine inches long, with sefts near the middle of the blades, and the blunt-hook.

## $N U M B . \quad$.

## OF THE WOMAN'S POSTURE.

THE patient ought to he laid on her back or fide, in the fame pofition directed in the ufe of the forceps; the operator mult be feated on a low chair, and the inftruments concealed and difpofed in the fame manner, and for the fame reafon, mentioned in treating of the forceps. The parts of the woman have already, in all likelihood, been fufficiently dilated by his endeavours to turn or deliver with the forceps; or if no efforts of that kind have been ufed, becaufe by the touch he had learned that no fuch endeavours would fucceed, as in the cafe of a large hydrocephalus, when the bones of the cranium are often feparated at a great diftance from each other, or upon perceiving that the kelvis was extremely narrow; if, upon thefe confiderations, he hath made no trials in which the parts were opened, let him gradually dilate the of externum and internum, as formerly dirẹted.

## $N \quad U \quad M \quad B . \quad I I$.

THE head is commonly kept down pretty firm, by the ftrong contration of the uterus round the child; but fhould it yicld to one fide, let it be kept feady by the hand of an affiltant, preffing upon the belly of the woman ; let him introduce his hand, and prefs two fingers againtt one of the futures of the cranium ; then take out his fciffars from the place in which they were depofited, and guiding them by the hand and fingers till they reach the hairy fcalp, pufh them gradually into it, until their progrefs is fopped by the refts:

If the head flips afide in fuch a manner as that they cannot be pufhed into the fkull at the future, they will make their way through the folid bones, If they are moved in a femicircular turn like the motion of boring, and this method continued till you find the point firmly fixed; for if this is not obferved, the points flide along the bones.

The fciffars ought to be fo tharp at the points, as to penetrate the integuments and bones when pufhed with a moderate force; but not fo keen as ta cut the operator's fingers, or the vagina, in introducing them.

The fciffars being thus forced into the brain, as far as the refts at the middle of the blades, let them be kept firm in that fituation; and the hand that was in the vagina being withdrawn, the operator muft take hold of the handles with each hand, and pull them afunder, that the blades may dilate and make a large opening in the flkull; then they muft be fhut, turned, and again pulled afunder, fo as to make the incifion crucial ; by which means the opening will be enlarged, and fufficient room made for the introduction of the fingers: let them be afterwards clofed, and introduced even beyond the refts, when they muft again be opened, and turned half round from fide to fide, until the ffructure of the brains is fo effectually deftroyed, that it can be evacuated with eafe. This operation being performed, let the fciffars be fhut and withdrawn; but if this inftrument will not anfwer the laft purpofe, the bufinefs may be done by introducing the crotchet withing the ofening of the ikull. The brain being thus deftroyed, and the inftrument withdrawn, let him introduce his right hand into the vagina, and two fingers into the opening which hath been made, that if any fharp fplinters of the bones remain, they may be broken off, and taken out, lett dhey fhould injure the woman's vagina, or the operator's own fingers.

## N $U M$ B. III.

IF the cafe be an hydrocephalus, let him fix his fingers on the infide, and his thumb on the outfide of the opening, and endeavour to pull along the fkull in time of a pain; but if labour is wcak, he muft defire the woman to affift his endeavours by forcing down; and thus the child is frequently delivered; becaufe, the water being evacuated, the head collapfer of courfe.

## $N \quad U M B, \quad I V$.

BUT when the pelvis is narrow, the head requires much greater force to be brought along, unlefs the labour-pains are ftrong enough to prefs it down, and diminifh it by fqueezing out the cerebrum; in this cafe, let the operutor withdraw his fingers from the opening, and fliding them along the head, pafs the os uteri ; then, with his left hand, taking one of the crotchets from the place of its concealment, introduce it along his right hand, with the point towards the child's head, and fix it above the chin in the mouth, back part of the neck, or above the ears, or in any place where it will take firm hold ; having fixed the inftrument, let him withdraw his right hand, and with it take hold on the end, or handle of the crotchet, then introduce his left to feize the bones at the opening of the $\mathfrak{l k u l l}$ (as above directed) that the head may be kept fteady, and pull along with both hands.

If the head is ftill retained by the uncommon narrownefs of the pelvis, let him introduce his left hand along the oppofite fide, in order to guide the other crotchet; which being alfo applied, and locked or joined with its fellow in the manner of the forceps, he muft pull with fufficient force, moving from fide to fide, and as it advances turn the forehead into the hollow of the facrum, and extract it with the forceps, humouring the fhape of the head and pelvis during the operation, which ought to be performed nowly, with great judgment and caution; and from hence it appears abfolutely neceffary to know how the head prefents, in order to judge how the crotchet mult bc fixed, and the head brought along to the beft advantage.

Sometimes, in thefe cafes, when I find that I cannot fucceed by pulling at the opening with my fingers, and if the woman has not had ftrong pains, I introduce the fmall end of the blunt-hook into the opening, and placing my fingers againft the point on the outfide of the fkull, pull with greater and greater force; but as we can feldom take a firm hold in this manner, if it does not foon anfwer the purpofe, I introduce my fingers, as above, farther. and fide the point up along the outfide above the under jaw; and have fucceeded feveral times with this inftrument, except when the pelvis was fo narrow as to require a greater force, when we muft ufe the others. No doubt it is better firft to try the blunt-hook, becaufe the managing the point gives lefs trouble, and it can be cafier introduced with the point to onc fide. When the inftrument is far enough advanced, this point may be turned to the head; and as a very narrow pelvis feldom occurs, the blunthook will commonly fucceed.

Soon after the fccond edition of this Treatife was pablifhed, I contrived a fheath to cover the fharp point of the curved crotchets, which may be introduced and ufed in the fame manner as the blunt-hook; the fheath may be taken off, or kept on as there is occafion.

If, when the head is delivered in this manner, the body cannot be extracted, on account of its being much fivelled, of a monitrous fize, or (which
is moft commonly the cafe) the narrownefs of the pelvis, let him defift from pulling, left the head fhould be feparated from the body, and, introducing one hand fo as to reach with his fingers to the fhoulder-blades or breaft, conduct along it one of the crotchets, with the point toward the fœetus, and fix it with a firm application; then withdrawing his hand, employ it in pulling the crotchet, while the other is exerted in the fame manner upon the head and neck of the child ; if the intrument begins to lofe its hold, he muft puin it farther up, and fixing it again, repeat his efforts, applying it ftill higher and higher, until the body is extracted.

Some writers direct us to introduce the crotchet within the fkull, and, prefling one hand againtt the point in the outfide, pull along. But this is a trifling expedient, and if great force is ufed, the inftrument tears through the thin bones, and hurts the operator's hand, or the woman's vagina, if not both. Whereas, in the other method, there is much more certainty, and a better purchafe to force along the head, which collapfes, and is diminifhed as the brain is difcharged, and never comes down in a broad flattened form, according to the allegations of fome people, whofe ideas of thefe-things are imperfect and confufed; for, if this were the cafe, the fame would bappen when the head is forced down from behind with labour-pains into a narrow pelvis, becaufe the preflure, in both cafes, acts in the fame direction; whereas we always find, both in the one and the other, that the vertex is protruded in a narrow point, and the whole head fqueezed into a longifh form.

Although many people have exclaimed againft the crotchets as dangerous infruments, from ignorance, want of experience, or a worfe principle, as formerly obferved; yet I can affure the reader, that I never either tore or lurt the parts of a woman with that inftrument. I have indeed feveral times hurt the infide of my hand by their giving way, till I had recourfe to the curve kind, which in many refpects have the advantage of the ftraight ; and $I$ am perfuaded, if managed as above directed, will never injure the patient.

Indeed, young practitioners, till they are better informed by cultom and practice, may, after the head is opened, try to extract it with the fmall or large forceps; and if it is not very large, or the pelvis very narrow, they may deliver by fqueczing and leffening the head; but, in my courfe of practice, I have been concerned in many cafes, where the pelvis was fodiftorted and narrow, that even after opening the head largely, I have pulled at the bones in time of ftrong pains, but all to no purpofe, although fome of them actually came away- Nay, after fixing a crotchet firmly above and near the chin or bafis of the fkull, and ufing great force, I have not been able to move the head lower, till at laft I have been obliged to introduce the other, and by intervals increafe the force of pulling to the utmoft of my firength; and before we had the curve crotchet, I have been fo fatigued from the ftraight kind nipping their fmall hold fo often, that I have fcarcely been able to move my fingers or arms for many hours after; and if this force had not been ufed, the mother muft have been lof, as well as the child. See collect. xxxi. and tab. xxviii. xxxix,

## C H A P. IV.

## Of Preternatural Labours.

## $S$ E C T. I.

PRETERNATURAL labour, according to the divifion mentioned, chap. i. fec. $v$. happens when, inftead of the heäd, fome other part of the body prefents to the os uteri. It has been thought by fome, that all labours in which the forceps and erotchet are ufcd ought to be ranked in this clafs; becaufe the head is cerıainly delivered by preternatural means ; and that, when the feet or breech prefent, and the womfan is delivered without any other affiftance than that of labour-pains, the eafe ought to be accounted natural. However, this divifion would embarrafs and confufe the young beginners more than the other which I have chofen to follow, namely, that of reckoning by the manner in which the child is delivered, and calling all thofe births preternatural in which the body is delivered before the head. Preternatural labours are more or lefs difficult according to the prefentation of the child, and the contraction of the uterus round its body. The nearer the head and fhoulders are to the os internum or lower part of the uterus, the more difficult is the eafe; whereas, when the head is towards the fundus, and the feet or breech near the os internum, it is more eafy to turn and deliver.

To begin with the eafieft of thefe firf, it may be proper to divide them into three claffes. Firf, how to manage when the feet, breech, or lowef parts prefent. Secondly, how to behave in violent floodings; and, when the child prefents wrong before the membranes are broke, how to fave the waters in the uterus, that the foetus may be the more eafily turned; and what method to follow even after the membranes are broke, when all the waters are not evacuated. Thirdly, how to deliver when the uterus is ftrongly contracted, and the ehild prefenting either with the fore or baek parts, and lying in a circular form; or with the fhoulders, breaft, neek, face, ear, or vcrtex, and lying in a longifh form, with the feet and breech towards the fundus of the womb, which is contracted like a long Theath, clofe to the body of the foetus; and when the fore parts of the child lie towards the fide, fundus, fore or back part of the uterus. Daventer, who practifed at Dort, in Holland, alledges, that preternatural as well as laborious cafes proceed from the wrong pofition of the os and fundus uteri; that if the fundus hangs forwards over the os pubis, the os uteri is turned backwards towards the faerum; and that, in whatfoever direction the fundus inclines, the os uteri will bealways turned to the oppofite fide. This opinion he grounded upon the fuppofition that the placenta always adheres to the fundus: but experience fhows, that it adheres to different parts of the womb, fometimes even to the infide of the os uteri. For the mont part, indeed, the os internum is turned backwards towards the coccy x , being in a ftraight line with the fundus up to the middle face betwixt the navel and fcrobiculus cordis.

Daventer was alfo of opinion, that if, upon touching, the mouth of the womb was not fclt in the middle, the woman ought to be affifted by opening the parts; and if this did not fucceed, by turning and delivering by the feet without delay. We fometimes, indecd, meet with pendulous bellies, in which the os uteri is farther back than ufual ; but even in thefe cafes, when the head is not very large, nor the pelvis narrow, and the patient is vigorous and the labour-pains titrong, the woman, with a little patience, is
for the moft part fafely delivered without any other than common affift ance; or fhould the cafe prove tedious, the may be affifted in time of pain by introducing one or two fingers into the os uteri, and gradually bringing it more forwards. When the belly is very pendulous, change of pofition from time to time is of fervice, efpecially lying upon her back, with the shoulders low and the breech raifed.

In women that are diftorted, when one ilium is much lower than the other, the fundus uteri will be turned to the low fide; but there the chief difficulty will proceed from the narrownefs of the pelvis.

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## THE FIRST CLASS OF PRETERRATURAL LABOURS;

WHEN THE FEET, BREECH, OR LOWER PARTS OF THE FEETUS
PRESENT, AND THE HEAD, SHOULDERS, AND UPPER PARTS.
ARE TOWARDS THE FUNDIS.

THESE, for the moft part, are accounted the eafieit, even although the uterus fhould be frongly contracted round the body of the child, and all the waters difcharged.

If the knees or feet of the child prefent to the os internum, which is not yet fufficiently dilated to allow them and the body to come farther down, or, if the woman is weak, wore out with long labour, or endangered by a flooding, let the operator introduce his hand into the vagina, pufh up and flretch the os uteri, and bring along the feet; which being extracted, let him wrap a linen cloth round them, and pull until the breech appears on the outfide of the os externum. If the face or fore-part is already towards the back of the uterus, let him perfift in pulling in the fame direction; but if they are towards the os pubis or one fide, they muft be turned to the back part of the uterus; and as the head does not move round equal with the body, he muft make allowance for the difference in turning, by bringing the laft a quarter farther than the place at which the: head is to be placed; fo that the face or forehead which was towards oneof the groins, will be forced to the fide of the facrum, where it joins with the ifchium, This quarter-turn of the body mult be again undone, without affecting the pofition of the head; a cloth may be wrapped round the breech, for the convenience of holding it more firmly ; then placing a thumb along each fide of the fpine, and with his fingers grafping the belly, let him pull along the body from fide to fide, with more or lefs force according to the refiftance. When the child is delivered as far as the fhoulders, let him flide his hand, flattened (fuppofe the right if fhe lies on her back) between its breaft and the perinæum, coccyx, and facrum, of the woman, and introduce the fore or middle finger (or both, if neceffary) into the mouth of the fextus; by which means the chin will be pulled to the breaft, and the forehead into the hollow of the facrum. And this expedient will alfo raife upward the hind-head, which refts at the os pubis.

When the fore-head is come folow as to protrude the perinxum, if the woman lies on her back, let the operator ftand up and pull the body and head of the child upwards, bringing the forehead with a half-round turn from the under part of the os externum, which will thus be defended from laceration. The application of the fingers in the child's mouth will contribute to bring the head out in this manner, prevent the os externum from hitching on the chin, help along the head, and guard the neck from being overftrained; a misfortune which wotld infallibly happen if the
forehead Thould be detained at the upper part of the factum. Nor is there any great force required to obviatc this inconvenience, or tric leaft danger of hurting the mouth, if the head is not large: for if the liead cannot be brought along with moderate force, and the operator is afraid of injuring or over-ftraining the lower jaw, let hini puifh his fingers farther up, and prefs on each fide of the nole, or on the inferior edges of the fockets of the eyes. If the legs are come out, and the breech pulled into the vagina, there is no occafion for puining up to open; but only to pull along and mantige as above direted ; ftill remembering to raifc the forehead flowly from the perinæuin, which may be preffed back with the fingers of his other hand.

In the cafe of a narrow pelyis, or large head, which cannot be brought along wishout the rifi of over-ftraining the neck, let him fide up his fingers and hand into the vagina, and bring down one of the child's arms, at the fame time'pulling the body to the contrary fide, by which means the fhoulder will be brought lower down: let him run his firigers along the arm, until they reach the elbow, which mult be puilled downwards with an half-round turn to the other fide, below the breaft. 'This' muft not be done with a jerk, but flowly and cautioufly, in order to prevent the diflocation, bending, or breaking, of thè child's arm.

Let him again guide his fingers into the child's mouth, and try if the head will come along; if this will not fuccecd, let the body be pulled to the other fide, fo as to bring down the other fhoulder; then flide up his left-hand, and, extracting the other arm, endeavour to deliver the head. If one finger of his right-hand be fixed in the child's mouth; let the body reft on that arm; let hin place the left-hand above the fhoulders, and put a finger on each fide of the neck; if the forehead is toward one fide at the upper part of the pelvis, let hint pull it lower down; and gradually turn it into the hollow of the facrum ; then ftand up, and in pulling raife the body fo as to bring out the head in an half-round iurn, as above directed.

Daventer and others; from a miftaken notion that the chief refiftance is at the coccyx or lower part of the pelvis, hate directed us to prefs the fhoulders of the child downwards; fo as to bring the hindhead firtt froms below the os pubis: not confidering that the refiftance is occafioned by the thickelt part of the head being detaincd at the upper part of the pelvis, where the lowct vertebra of the loins and the upper part of the facrum jet inward; and that, until the forehead hatl pafed into the hollow of the facrum, this method cannot fucceed. The hufinefs, thefefore, is to pill upward at the back part of the neck, which refts againit the under part of the os pubis; and by this excrtion, the forchead, which is high up, will be brought down with a circular turn; after which the head feldom fops, and the fame circular motion is fill the moft proper ; though now we can bring out the headd the other way, but not before. Sometimes; indeed, I have found Daventer's method fucceed bitter than the other, when the head is low down; and the chief refiftance is in the lower parts ; but this is very foldom the cafe; however, when the: forehead is hindcred from coming down into the lower part of the facrum by an uncommon Shape of the head or pelvis, and we cannot extrat it by bringing it out with an half-round turn at the os pubis, we mult try to make this curn ini the enntrary diretion; and inftead of introducirg our fingers into the child's mouth, let the brciff of it reft on the palm of your left-hand (the woman being on her back) and placing the right on its fhoulders, with
the fingers on each fide of the neck, prefs it downward to the perinzum. In confequence of this preflure, the face and chin being within the perinæum, will move more upward, and the head come out with an halfgound turn from below the os pubis : for the centre of motion is now where the fore part of the neck preffes at the perinæum; whereas, in the other method, the back part of the neck is againlt the lower part of the os pubis, on which the head turns.

If the forehead is not turned to one fide, but flicks at the upper part of she facrum, efpecially when the pelvis is narrow; let him endeavour, with his finger in the mouth, to turn it to one fide of the jutting-in of the facrum, becaufe the pelvis is wider at the fides of the brim, and bring it along as before.

If one of the child's arms, inftead of being placed along the fide of the head, is turned in between the face and facrum, or between the hindhead and os pubis, the fame difficulty of extracting occurs as in a large head or narrow pelvis; and this poftion frequently enfues when the fore parts of the child's body are turned from the os pubis down to the facrum. If they are surned to the left fide of the woman, the left-hand and arm are commonly brought in before the face, and vice verfa; but in thefe cafes the elbow is for the moft part eafily come at, becaufe it is low down in the vagina, and then there is a neceflity for bringing down one or both arms before the head can be delivered: from whence we may conclude, that thofe authors are fometimes in the wrong who exprefsly forbid us to pull down the arms. Indeed, if the pelvis is not natrow, nor the head very large, and the arms lie along the fides of the head, there is feldom occafion to pull them down; becaufe the pelvis is wideft at the fides, and the membranes and ligaments that fill up the fpace benwixt the facrum and ifchia yield to the prefiure, and make room for the paffage of the head: but when they are fqueezed between the head and the facrum, ifchia, or offa pubis, and the head Aticks in the pelvis, they certainly ought to be brought down; or even when the head comes along with difficulty. Neither is the aliedged contraction of the os internum round the neck of the child fo frequent as hath been imagined; becaufe for the moft part the contraction embraces the head and not the neck: but fhould the neck alone fuffer, that inconvenience may be removed by introducing the hand into the vagina, and a finger or two in the child's mouth, or on each fide of the nofe; by which means alfo a fufficient dilatation will be preferved in the os externum, which frequently contracts on the neck as foon as the arms are brought out.

The diameter from the face or forehead to the vertex, being greater than that from the forehead to the back part of the hindhead or neck, when the hindhead refts at the os pubis, and the forehead at the upper part of the facrum, the head can feddom be brought down until the operator, by introducing a finger into the mouth. moves the fame to the fide, brings the chin to the breaft, and the forehead into the hollow of the facrum ; by which means the hindhead is raifed and allowed to come along with greater eafe; and in pulling, half the force only is applied to the reck, the other half being exerted upon the head, by the finger which is fixed in the mouth ; fo that the forehead is more eafily brought out, by pulling upward with the half-round turn from, the perinxum. When the operator with his fingers in the child's mouth cannot pull down the forehead into the hollow of the facrum, let him puin the fore-finger of his left-hand beiwixt the neck and os pubis, in order to: raife the hind head upward; which being done, the forchead will come
down with lefs difficulty, efpecially if he pufhes up and pulls down at the fame time, or alternately.

If it be difcovered by the touch, that the breech prefents, that the membranes are not yet broke, the woman is in no danger, the os internum not yet fufficiently dilated, and the labour-pains ftrong, the operator ought to wait until the membranes, with the waters, are pufhed farther down, as in the natural labour; for, as they come down through the os uteri into the vagina, they ftretch open the parts contained in the pelvis; and the bulk within the uterus being diminifhed, it contracts and comes in contact with the body of the child ; fo that the breech is pufhed along by the mechanical force of the abdominal mufcles operating upon the womb.

The fame confequence will follow, even although the membranes are broke; for the waters lubricare the parts as they flow off, and the breesh, if not too large, or the pelvis narrow, is pufhed down. In this cafe, when the nates prefent equal and fair to the os uteri (as was formerly obferved, when treating of the pofition of the child, book iii. chap. i. fect. I, it was molt probable that one fide of the fretus was toward the fore part, and the other to the back part of the uterus) fo it is alfo reafonable to conclude, that when the breech prefents, it lies in the fame manner, but that the fore parts of the child are rather turned backward to one fide of the vertebre of the loins; in this pofition, one hip will prefent, and the other reft on the os pubis; but when forced along with pains, the laft will he gradually moved more and more to the groin of that fide, and from thence flip down at the fode of the bafon; the lower at the fame time will be forced to the other, and the hollow betwixt the thighs will reft upon the jutting-in of the os facrum, and come down in that manner ; the thighs on each fide, and the back and round part of the breech, pafing in below the arch of the os pubis, which is the beft pofition; but if the back of the child is tilted backward, then it will be forced down in the contrary direction, and come along with more difficulty, viz. the thighs to the os pubis, and back to the facrum. When it is come down to the middle or lower part of the pelvis, let the operator introduce the fore-finger of each hand, along the outfide, to the groins, and taking hold, pull gently along during a ftrong pain.

If the os externum is fo contracted that he cannot take fufficient hold, let it be opened flowly, fo as to allow his hands to be puthed up with eafe; when he has infinuated a finger or two in each groin, let him place his thumbs on the thighs, if they are toward the offa pubis, fo as to obtain a firm bold ; then pull along from fide to fide, and if the back of the child is to the os pubis, continue to affit in this manner, until the body and head are delivered. The legs being commonly ftretched up along the belly and breaft, when the child is extracted as far as the fhoulders, they come out of themfelves, or are eafly brought down g but if the belly of the child is gurned to one fide, or to the os pubis, in that cafe, when the breech is delivered, he ought to turn the belly down to the facrum, and the back to the os pubis; and that the face may be alfo turned to the back of the mother, let him remember the quarter extraordinary, which muft be again reverfed, and then he may pull along and deliver.

If the body cannot be turned until the thighs and legs are brought down, cither on account of the bulk, or becaufe the hold on the breech is not fufficient, let him continue to pullalong, until the hams appear on the outfide of the os externum ; then feize one of the knecs with his finger and thumb, and extract that leg; and let the other be brought down in the fame manmer. If he attempts to pull out the legs before the hams arrive at this
place, the thighs are always in danger of being bent or broken. When the legs are delivered, let him wrap a cloth round the breech of the child; and as the body was pulled down almoft as far as the breaft, before the legs could be brought out, it muft be puifed up again to the navel, or above it ; becaufe, without this precaution, the fhoulders would be fo much engaged in the pelvis, that it would be impracticable to make the motions formerly directed, fo as to turn the face to the back of the mother; whereas, when the body is puthed up, thofe turns can be effected with greater eafe, becaufe the belly being in the pelvis, it yields eafier to the form of the bafon. When the face is turned proferly down, let him proceed to deliver, as above directed.

If the breech is detained above the pelvis, either by its uncommon magnitude, or the narrownefs of the bafon; or if one of the nates is puthed in, while the other refts above the os pubis, facrum, or to either fide; if the woman is low and weak, the pains lingering and infufficient to force the child along; or if fhe is in danger from a violent flooding; in any of thefe cafes, let him (during every pain) gradually open firft the os externum, and then the os internum, with his fingers and hand. Having thus gained admiffion, let him pufh up the breecli to the fore or back part, or to one fide of the uterus, that his hand or arm may have room to flide along the fore parts or belly of the child, fo as to feel the thighs, that will direet him to: the legs, which muft be brought down with his fingers, while at the fame time he pufhes up the hams with his thumb, that in cafe the legs lie ftraight up, they maj be extracted with more eafe by the flection of the knee, and run the lefs rifk of being bent, broken, or over-ftrained; for if they are folded downivard, they are the more eafily brought out.

If the breech be ftrongly preffed into the upper part of the pelvis, let him alfo pufh it upward and to one fide, that his hand and arm may have free paffage; for the higher the breech is raifed out of his way, he will be at more freedom to extract the legs.

If both legs cannot be eafily brought down, he may fafely deliver. with one, of which, taking hold with a linen cloth wrapped round it, let him Hide up his other hand into the vagina, and a finger or two into the autfide of the groin which is bent; by thefe means, the hip will come down the eafier, and the leg which is already extracted, will not be over-ftrained by, fuftaining the whole force of pulling the body along.

If the legs lie towards the left fide of the woman, who is laid on her back, the right-hand muft be introduced into the uterus; if they lie to her right fide, the left-hand will better anfwer the purpofe; and if they are toward her back or belly, either hand may be indifferently ufed.

In all cafes where the breech prefents, the fafett practice is always to pufh up and bring down the legs, provided the os uteri is fufficiently dilated, and the waters not wholly difcharged. If the waters are evacuated, the uterus ftrongly contracted around the child, the breech fo low as that it cannot be returned, or fo fmall as to come eafily along, we ought then to deliver it accordingly; but if fo large as neither to be pufhed up nor brought along with the affifance of the fingers, let the operator introduce the curved handle of the blunt crotchet into one of the groins, lis fingers into the other, and full very cautioufly, in order in rrevent a fracture, or diflocation of the thigh-bone, which might otherwite happen from the ufe of this inftrument, the blunt point of which muft he fufficiently palt the groin. A fillet may alfo be ufed for the fame purpofe.

I have, in the foregoing cafes of this fcction, fuppofed the woman laid on her back, her legs fupported, and breech to the bed-fide, this being generally the beft pofition for delivering the body and head. Indeed, when the child is fmall, fhe may lie on her fide, and the fame methods be ufcd in delivering, provided the aperator fill remembers, that in this pofition the ilium and :!chium of one fide are down, and the others up. Befides, when the breech is pufhed up, in order to bring down the legs, if they lie forward toward the fore part of the uterus, and the belly is pendulous, he can reach them with the greateft eafe when fhe lies on one fide; or, if the refiftance is very grcat, turn her to her knees and elbows, according to Daventer's method; but when the legs are delivered, if the child is large, or the pelvis narrow, fhe ought to be turned upon her back, becaufe the body and head can be better and more fafely delivered by pulling up and down; and in that pofture fhe is alfo kept more firm, and her thighs lefs in the operator's way, than when fie lies upon her fide. See collect. xxxii. and tab. xxix, xxx, xxxy.

## $S E \quad C \quad T_{0} \quad$ II.

## THE SECOND CLASS OF PRETERNATURAL LABOURS.

WHEN the membranes are broke, but the face, fhoulder, or foime other part of the child, being pufhed into the pclvis, locks up thi os internum, fo as that a fimall quàntity of the waters hath been difcharged, tho uterus is kept from contracting ftrongly round the child, which is therefore more eafily turned than it poffibly can be when they are all gone.

When, before the membranes are broke, the child is felt through them, prefenting wrong; and at the fame time the pains pufh them down fo as to dilate the os internum, more cr lefs.

When the woman at any time in the four laft months is feized with a violent flooding that cannot be reftrained, and unlefs fpeedily delivered, mult lofe her life; if labour-pains cannot be brought on by ftretching the parts, delivery muft be forced; but if the is in labour, and the membranes. havc been pufhed down with the waters, they may be broke, by which means the flooding is frequently diminifhed, and the child delivered by the a bour-pains.

In thefe three different cafes, if we can prevent the frong contraction of the uterus, by keeping up the waters, we can alfo, for the moft part, turn the child with grat eafe, even in the very wort pofitions.

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$I^{N}$ the firft cafe, let the opcrator flowly introduce his hand into the vagina. and his fingers between that part of the child which is pufhed down, and the os internum. If in fo doing, he perceives fomc of the waters coming alung, he muft run up his hand as quick as poffible into the uterus, betwixt the infide of the membrancs and the child's body; the lower part of his arm will then fill up the os externum like a plug, fo that no more of the waters can pars. Let him turn the child with its head and moulders up to the fundus, the breech down to the lower part of the uterus, and the fore parts toward the mother's back. Lct the hand he pufhed no farther up than the middle of the child's body ; bccaufe if it is advanced as high as the fundus, it muft be withdrawn lawer before the child can be turned; and by thefe
means the waters will be difcharged, and the uterus of confequence contract fo as to render the turning more difficult.

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1N the fecond cafe, when the membranes are not broke, and we are certain that the child does not prefent fair, if the os internum is not fuffciently dilated, and the woman is in no danger, we may let the labour go on until the parts are more itretched; lubricating and extending the os externum, by degrees, during every pain. Then introducing one hand into the vagina, we infinuate it in a flattened form, within the os internum, and puith up between the membranes and the uterus, as far as the middle of the womb. Having thus obtained admiffion, we break the membranes, by grafping and fqueezing them with our fingers; Aide our hand within them; without moving the arm lower down; then turn and deliver as formerly directed; but if in any of thefe cafes you find the head is large or the pelvis narrow, bring down the head into the natural pofition, and affift as directed in lingering or laborious cafes.

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IFF the woman (in the third cafe) is attacked with a violent flooding, occafroned by a feparation of all or any part of the placenta from the uterus during the laft four months of pregnancy, and every method has in yairs been tried to leffen and reftrain the difcharge, according to the directions is book ii. chap. iii. fect. 3. the operator ought to pronounce the cafe dangerous, and prudently declare to the relations of the patient, that unlefs the is fpeedily delivered, both the and the child mult perifh; obferving at the fame time, that by immediate delivery they may both be faved; let himalfo defire the affiftance and advice of fome perfon eminent in the profeffion, for the fatisfaction of her friends and the fupport of his own reputation. When there are no labour-pains, and the mouth of the womb is not dilated, it is fometimes very difficult to deliver, more efpecially if the os internum is not a little lax; but feels rigid.

If the os uteri is fo much contracted that the finger cannot be introduced, fome authors have recommended a dilator, by which it may be gradually opened fo as to admit a finger or two. Doubtiefs, fome cafes may happen in which this may be neceffary; though in all thofe to which I have been called, when there was a neceffity for forcing delivery, the mouth of the womb was open enough to receive the tip of my finger, fo that by gradual efforts, I could effect a fufficient dilatation; and it is certainly a tafer method to dilate with the fingers and hand, than with an inftrument.

If in fretching the os internum labour-pains are brought on, let the operator Mowly proceed and encourage them; when the mouth of the womb is opened, if the head prefents and the pains are ftrong, by breaking the membranes the flooding will be diminifhed; but if fhe floods to fuch a degree as to be in danger of her life, and the dilatation does not bring on la. bour, at leaft not enough for the occafion, fhe nult immediately be delivered in the following manner. But in the firft place let her friends be apprifed of the danger, and the operator be aware of promifing to fave either mother or child; for I have known the mother die in a few minutes after delivery, although to all appearance fhe feemed able to undergo the operation, and the child loft from the head flicking in the pelvis; others, "gain, who
were apparently much more weak and exhaufted, have recovered, and the child hath beea faved.
The operator having performed his duty in making the friends acquainted with the fituation of the cafe, mult gently open the os externum, by introducing his fingers gradually, turning them half-round and pufhing upward; then forming them with the thumb into the figure of a wedge or cone, continue to dilate flowly and by intervals, until his hand is admitted into the vagina; having thus far gained his point, let him infinuate, in the fame flow cautious manner, firft one, then two fingers into the os internum, which may be dilated fo as to admit the other two and the thumb, in the fame conical form, which will gradually make way for Iliding the hand. along between the outfide of the membranes and infide of the urerus; then he muft manage as directed in the fecond cafe. If upon fliding up his hand upon the outfide of the membranes, he feels the placenta adhering to that fide of the womb, he muft eithcr withdraw that hand and introduce the other on the oppofite fide, or break the membranes at the lower edge of the placenta.

The greatef danger in this cafe frequently proceeds from the furdden emptying of the uterus and belly; for when labour comes on of itfelf, or is brought on in a regular manner, and the membranes are broke, the flooding is gradually diminifhed ; and firft the child, then the placenta, is delivered by the pains; fo that the preffure or refiftance is not all at once removed from the belly and uterus of the woman, which have time to contract by degrees; confequently thofe fainting-fits and convulions are prevented which often proceed from a fudden removal of that compreffion under which the circulation was performed.

In order to anticipate thefe fatal fymptoms, I have (fometimes fuccefffully) ordered an affiftant to prefs upon the woman's belly while the uterus was emptying, or, after having bruken the membranes, turned up the head to the fundus, and brought down the legs and breech, I withdraw my arm a little to let the waters come off, though I keep my hand in the uterus for a few minutes, and do not extract the legs until I feel the womb clofe contracted to the child; nay, if the flooding is ftopped, or even diminifhed, I let the child remain in the uterus perhaps ten or fifteen minutes longer, then deliver; and, if the hæmorrhage is ftayed, leave the placenta. to be expelled by nature. In all thefe ftages, however, when the flooding is violent, we muft deliver without lofs of time, remembering fill the preffure upon the abdomen; for the woman is frequently fo very weak, that although labour could be brought on, the would not have ftrength §ufficient to undergo it.

The younger the woman is with child, the greater is the difficulty in opening the os internum ; and more fo in the firlt child, efpecially if fhe is. paft the age of thirty-five.

We fhould never refufe to deliver in thefe dangerous cafes, even though the patient feems almoft expiring; for immediately after celivery, the uterus contracts, the mouths of the veffels are fhut up, fo that the flooding ceafes, and the may recover, if the lives five or fix hours after the operation, and can be fupported by frequent draughts of broth, jelly, caudle, weak cordial, and anodyne medicines, which naintain the circulation and gradually fill the empty veffels.

If, in time of flooding, the is feized with labour-pains, or if, by every now and then flretching with your fingers the os internum, the membranes ought to be broken; fo that, fome of the waters being difcharged, the
aterus may contract and fquecze down the fretus. This may be done fooner in thofe women who have had children formerly, than in fuch as thave been in labour before: If, notwithltanding this expedient, the fooding fill continucs, and the child is not like to be foon delivered, it muft be surned imnediately; or, if the head is in the pelvis, be delivered with the forceps, but, if neither of thefe two methods will fucceed, on account of the narrownefs of the pelvis or the bignefs of the head, this laft mult be opened and delivered with the crotchet. In all thefe cafes let the parts be dilated flowly and by intervals, in order to present laceration. See collect. xxxiii. and tab. ix, $x$, xi, xii, xxxiv.

## $S \quad E \quad C \quad T \cdot I V_{0}$

## THE THIRD CLASS OF PRETERNATURAL LABOURS.

WE have already obferved, that the principal difficultics in turning children and bringing them by the feet, proceeded from the contraction of the uterus and bad pofition of the fuetus. If, the child lies in $\dot{z}$ rouno form, whether the fore parts are toward the os internum, or up to the fundus uteri, we can for the mott part move it with the hand, fo as to turn the head and fhoulders to the upper part, and thie breceh and legs downward; bat if the child lies lengthways, the worib bcing contracted round it like a long fheath, the tafk is more difficult; efpecially if the head and fhoulders of the child are down at the loweft part of the uterus, with the breech and fcet turncd up to the fundus.

Before I proceed to the method of delivery in the following cafes, it will not be improper to premife, that the woman ought to be laid on her back; her breech upon the fide or foot of the bed, a bolfter or pillows being laid below the feather-bed or matrafs, in order to raife it fo that the breech may be higher than the fhoulders; while an affiftant fits on each fide, to' fupport her legs and thighs, as directed in chap. ii. fect. I. chap. iii. fect. 3: and one or two more affiltants ought to fit behind, or on each ffde of her fhoulders, to keep her firm in that pofition. The operator ought to a void all formality in point of drefs, and never walk about the room with neeves and apron; for although fuch apparatus may be neceffary in hofpitals, in private practice it conveys a frightful idea to the paticnt and female fpectators; the more genteel and commodious drefs is, a loofe wafhing night-gown. which he may always have in readinefs to put on when he is going to deliver; his waiftcoat ought to be without fleeves, that his arms may have more freedom to flide up and down under cover of the wrapper; and the fleeves of his mirt may be rolled up and pinned to the brcait of his waiftcoat. In natural labours, the theet that hangs over the bed-fide is fufficient to keep kim clean and dry, by heing laid in his lap; but in thofe cafes where he is obliged to alter his pofition, a fheet ought to be tucked round him, or an apron put on, but not before he is about to begin his work. If the patient is laid on a low bed, and he intends to introduce his right-hand, his beft and firmeft pofition is to krieel with his leftknce on a cuthion, keeping up the right to fupport his arm; if the lefthand is introduced, the reverfe of this difpofition mult take place; if the bed or couch is nigh, he ought to ftand, but ftill remember to fupport the elbow on the knce. 'Thefc directions, howfocver trivial they may feem to old practitioners, may be ferviccable to young beginners.

The hand of the accoucheur, or operator, being introduced into the uterus, if he finds the breech below the head and thoulders, ict him feareh for the legs and bring them down; but if the breech be higher than the upper parts of the child, or equal with them, he muft try to turn the head and houlders to the fundus, and the breech downward, by pufhing up the firf and pulling down at latt ; then proceed with delivery as before directed. This is commonly exceuted with eafe, proviced fome part of the waters ftill remain in the uterus; but, if the woman has beenlong in labour, and the waters difcharged, the contraction of the womb is fo ltrong, that the chiil eannot be turned without the exertion of great foree frequently repeated. In this cafe, the eafielt method, both for the patient and operator, is to pufh up the hand gradually on that fide to which the legs and thighs are turned; and even after he has reached them, if they are not very high up, let him advance his hand as far as the fundus uteri ; he will thus remove the createft obftacle, by enlarging the cavity of the womb, fo as more eafily to feel and bring down the legs; thea he may pulh up and pull down, as we have prefcriber above. But if the head and floulders ftill continue to hinder the breech and body from coming along, and the feet eannot be brought fo low as the outfide of the os externum, while they are yet in the vagina he may apply a noofe upon one or both; for, unlefs the child is fo fmall that he can turn it round by grafping the body when the head and fhoulders are pufhed up, and he endeavours to bring down the other parts, they will again return to the fame place, and retard delivery; whereas, if he g .ins a firm hold of the feet, either without the os externum or in the vagina, by means of the noofe fixed upon the ancles, he ean with the other hand pufh up the fhoulders, and be able in that manner to bring down the brecech. He muft continue this method of pufhing up and pulling down, until the head and fhoulders are raifed to the fundus uteri : for thould i.e leave off too foon, and withdraw his hand, although the child is extracted as far as the breech, the head is fometimes fo preffed down and engaged with the body in the paffage, that it cannot be brought down without being toren along with the crotehet; for the breeeh and part of the body may bleck up the paffage in fuch a mainers as that the hand cannot be introduced to raife the head.

In all cafes, where the aceoucheur forefees that great force will be requifite, he ought to fave his ftrength as much as poffible, beginning flowly, and refting his hand between whiles during the operation of puning up and turning the child in the uterus; for if he begins to work in a hurry, and exerts his utnoft ftrength at firft, his hands will be fo erartiped and enervated, that he will be obliged to deffif, and give them fome refpite, fo that it may be a long time before he recovers the ufe of them, and even then they will be fo much weakened as to be fearee able to effeed delivery, which is thus impeded and delayed.

Thofe eafes are commonly the eafieft in which the fore parts prefent, and the child lies in a round form, aerofs the uterus, or diagonally, when the head or breech is above and over the os pubis, with the legs, arms, or navel-ftring, or one or all of them, at the upper or lower part of the vagina, or on the outficle of the os externum. Thofe are more difficult in which, though the child lies in the fame round or contracted form, the back, finoulders, billy, or breat, are over the os internum; becaufe, if we cannot move the ehild round, fo as to place the head to the fundus, the legs are brought down with much inore difficulty than in the other cafe;
but if the fhouldcr, breaft, neek, ear, faee, or crown of the head prefents, and the legs and breech are up to the fundus uteri, the cafe is intll more difficult; becaufe, in the other two, the uterus is contracted in a sound form, fo that the wrong pofition of the child is more eafily altered than in this, when the womb is contracted in a long fhape, and fometimes requires vaft force to ftretch it fo as that the head may be raifed to the fundus, and the legs and breech brought down.

The crown of the head is the worft part that can prefent, becaufe in that cafe the feet and breech are higher, and the uterus of a longer form, than in any other. The prefentation of the face is, next to this, attended with the greateft diffculty; but when the neck, firoulder, back, or breaft, prefents, the head is turned upward, and keeps the lower part of the womb diftended; fo that, upon ftretching the upper part, the child's head is more eafily rafed to the fundus.

## $N \quad U \quad M \quad B . \quad I$.

WHEN the fore parts of the child prefent, if the feet, hands, and navelftring are not detained above the os uteri, fome or all of them defcend into the vagina, or appear on the outfide of the os externuns. If one or more of them come down, and the child at the fame time lies in a round form acrofs the uterus, let the accoucheur introduce his hand between them and the facrum, as directed in fect. 3. When it is paft the os internum, let it feft a little, while he feels with his fingérs the pofition of the foetus; if the head and fhoulders lie higher than the breech, he muit take hold of the legs and bring them down withoutfide the os internum ; if the breech is detained above the brim of the pelvis, let him fide up the flat of his hand along the buttocks, and pull down the legs with the other hand; by which method the breech is difengaged and fareed into the middle of the pelvis. See tab. xxxi.

In moft of thofe cafes where the child is preffed in an oval form, if neither the head nor breech prefent, the head is to one fide of the uterus, and. the breech to the other; becaufe, as was formerly obferved, it is wider from fide to fide, than from the back to the fore part; and if either the head or breech is over the os pubis, the other is turned off to the fide; in moving the head or fhoulders to the fundus, they are raifed with greater cafe along the fides than at the back or fore parts, for the fame reafons.

If the head and fhoulders lie lower down, $f_{0}$ as to hinder the breech from coming along, and the legs from being extracted, let him pufh up the head. and fioulders to the fundus, and pull out the legs; then try, as above dirệeded, to bring in the breech; and if it ftill fticks above, becaufe the head and fhoulders are again forced down by the contraction of the uterus, he muft with one hand take hold of the legs that are now without the os externum, and, fliding the other into the uterus, puth the head and Ihoulders again up to the fundus, while at the fame time he pulls the legs and breech along with the feet. If the legs cannot be brought farther down than the vagina, becaufe the breech is high up, let him flip a noofe over the feet, round the ancles, as before obferved; by which he may pull down thelower parts with one hand, while the other is employed in pufhing ir up, as before. By this double purchafe, the child may be turned even in the moft difficult cafes; but the operator, in pulling, mult be aware of overftraining the ligaments of the joints.

If the legs ean be extrasted through the os externum, let a fingle cloth, warmed, be wrapped round them, in order to yield a firmer hold to the accoucheur;
accouclieur; but whent they can be brought no lower than the neck of the uterus and ragina, he may ufe one of thefe following noofes:

Let him take a itrong limber fillet, or foft garter, half woren, about one gard and an half in length, and moderately broad and thick ; if thick, an eye may be made at one end of it, by doubling two inches and fewing it flrongly, and the other casd pafted through this doubling in order to make the nonfe, which bicing niounted upoin the thumb and fingers of his hand, nsuit be introduced and gently 1 ipped over the toes and feet of the child, fo as to embrace the ancles, and thus applied it mult be drawn tight with his other hand.

If the foot or feet flould be fo flippy that his fingers cannot hold them and work over the noofe at the fame time, it mutt be withdrawn and mounted round his hand or wrift ; with which hand, when introduced, he may take firm hold of both feet, if they are as far down as the vagina; then with the fingers of his other hand he can flide the noofe along the hand and fingers that hold the feet, and fix it round the ancle. But if one foot remains within the uterus, the fingers of his other hand cannot puth up the noofe far enough to flide it over the ancle; fo that he muft have recourfe to a director like that for polypufes, mounted with the noofe, which will pufh it along the hand and fingers that hold the foot. The noofe being thus flipped over the fingers upon the ancle, he muft pall the extremity of the fillet, which bath paffed the eye at the upper end of the director; and after it is clofe drawn, bring down the inftrument.

Some ufe a fmall flender pair of forceps to grafp the ancles and flide the noofe along them; others make ufe of a fillet with a noofe upon one end of it, fixed on a hollow tube that carries it up to be flipped over the ancles; and this being done, it is drawn clofe by pulling the other end of the fillet down through the cavity of the tube : but there is feldom occafion for any of thefe inftruments, becaufe we can for the moft part bring the feet down into the vagina,

If the fillet or garter is too narrow or thin, let it be doubled in the middie, and the noofe made by pafing the two ends through the doubling.

## $\begin{array}{lllll}N & U & M & B . & I I .\end{array}$

WHEN the belly prefents, and the head, fhoulders, breech, thighs, and legs, are turned up over the back to the fundus uteri; when the back prefents. and all thefe parts are upward; when the fide prefents with the head, fhoulders, breech, thighs, and legs turned to the fide, back, or forc part of the uterus.; in all thefe cafes, swhen the child is preffed into a round or: (more properly) an oyal figure, it may be for the moit part moved round with one hand introduced into the uterus, the head and fhoulders puraed to the fundus, and the legs and breech to the os internum ; which being effeetcd, the legs are eafily brought down. (See tab. xxxii. xxxiii.) But thefe cafes are more or lefs difficult as the feet are farther up or lower down, becaufe the bufinefs is to bring them downward.

When the breaft, froulders, neck, ear, or face, prefents to the os internum, the breech, thighs, and leggs being toward the fundus, with the forc parts of the feetas turned eithcr to the fide, back, or forc part of the woman's belly, and the whole lying in a longifh form, the uterus bcing clofely contracted around its hody like a fhcath (fee tab. xxxiv.) let the accoucheur introduce his hand into the vagina, and open the os internum, by gulhing up the fingers and hand flattened between the parts that pro-
fent and the infide of the membranes; and reft his hand in that fituation until he can diftinguifh how the child lies, and form a right judgment how to turn and deliver : for if thefe circumftances are not maturely confidered, he will begin to work in a confufed manner, fatigue himfelf and the patient, and find great difficulty in turning and extracting the child.

If the feet and legs of the fectus lie towards the back, fides, or fundus uteri, the woman ought to be laid on her back, with her breech raifed and brought a little over the bed, as formerly obferved; becaufe in that pofition he can more cafly reach the feet than in any other.

If they lie toward the fore part of the uterus, efpecially when the belly is pendulons, fhe ought to lie upon her fide; becaufe in the other pofture it is often difficult to turn the hand up to the fore part of the womb; whereas, if fhe is laid on the left fide, the right-hand may be introduced at the upper part and left fi i.e of the brim of the pelvis, where it is wideft, and then along the fore part of the uterus; by which means the feet are more eafily come at. If it is more convenient for the accoucheur to ufe his left-hand, the patient may be turned on her right fide. The only inconvenience attending thefe pofitions, is, that the woman cannot be kept fo firm and fteady, but will be apt to tofs about and fhrink from the operator; and, befides, there may be a neceffity for turning her upon her back, after the tody is delivered, before he can extract the head, efpecially if it be large, or the pelvis narrow.

The fituation of the child being known, and the pofition of the mother adjuffed, let the proper hand be introduced, and the firft effort always made in puming the prefenting part up toward the fundus, either along the fides, 'back', or fore part of the uterus, as is inof convenient. If this endeavourfucceeds, and the breech, thighs, or legs come down, the body may be delivered with eafe; but if the head, ihoulder, breaft, or neck, prefents, the other parts of the body leing ftretcled up lengthways, and the uterus fo ftrongly contracted around the child that the prefenting part cannot be raifed up, or, though pufhed upward immediately returns before the legs can be properly feized or brought down, the operator ought, in that cafe, to force up his hand flowly and gradually between the uterus and the child. If the refiftance is great, let him reft a little between whiles; in order fo fave the ftrength of his hand and arm, as formerly directed; and then proceed with his efforts until he fhall advance his hand as far as the feet; for the higher his hand is puihed, the more will the uterus be ftretched, and the more room granted for bringing the lcgs along; and if, in' pufhing up his hand, the fingers fhould be entangled in the navelArring or one of the arms, let him bring it a little lower, and pafs it up again on the ontfide of fuch incumbrance.

I he hand being advanced as high as the fundus, let him, after fome paufe, feel for the breech, and nide his fingers along the thighs in fearch of the legs and feet; of which taking hold with his whole hand, if poffible, let him bring them down either in a fraight line or with an half turn ; or fhould the contraction of the uterus be fo ftrong that he cannot take hold of them in that manner, let him feize one or both ancles between his fingers, and pull them along; but if he cannot bring then down to the lower part of the uterus, fo as to apply the noofe, he mult try again to pufl up the body, in order ftill more to ftretch the uterus, and obtain a freer foope to bring them down lower ; then he may apply the noofe, and.
turn the child as above directed, until the head and floulders are raifed up to the fundus, and the feet and breech delivered.

If one leg can be brought down, the child being turned, and that member extracted through the os externum, let the accoucheur fide his hand up to fetch the other; but if this cannot be done, he muft fix a finger on the outfide of the groin of that thigh which is folded up along the belly, and bring along that buttock, as in the breech cafe, while he pulls with his other hand at the other leg; and, the budy being thus fadvanced, deliver as before directed.

When the fhouider prefents, and the arm lies' double in the vagina, let him puih them both up; but, if this cannot be done, and the hand is puevented from paffing along, he mult bring down the arn, and hold it with - one hand, while the other is introduced; then let go and pufh up the fhoulder, and as the child is turned, and the feet brought down, the arm will for the moft part return into the uterus: but, if the arm that is come down be fo much fwelled, that it is impracticable to introduce the hand fo as to turn and deliver the child, he mult feparate it at the joint of the fhoulder, if ir be folow down; or at the elbow, if he cannot reach the fhoulder. If the limb be much mortified, it may be twifted off; otherwife it may be fnipped and feparated with the fciffars.

If the fhoulder, by the imprudence and ignorance of the unfkilful, who pull in expectation of deiivering in that way, is forced into the vagina, and part of it appears on the outfide of the os externum, a valt force is required to return it into the uterus; becaufe in this cafe, the fhoulder, part of the ribs, breaft, and fide, are already pulled out of the uterus, which muft be extended fo as not only to receive them again, but alfo the hand and arm of the accoucheur. If this ditenfion cannot pofiibly he effected, he muft fix a crotchet above the fernum, and turn the child by pufting up the fhoulder and pulling down with the crotchet ; or flide his fingers to the neck of the child, and with the fciffars divide the head from the $h$ dy; then deliver firlt the feparated head, or bring along the body by pulling at the arm, or, if need be, with the affiftance of the crotchet: after the body is delivered, the head muft be extracted according to the rules that will te l.id down in fect. v.

When the forehead, face, or ear prefents, and cannot be altered with the hand into the natural pofition, or is not advanced to the os externum, fo that we can affitt with the forceps, the head mult be returned, and the child delivered by the feet ; but if this cannot be done, and the woman is in inminent danger, recourfe muft be had to the crotchet.

## $N \quad U M$ B. $\quad I V$.

IF the navel-fring comes down by the child's head, and the pulfation is felt in the arteries, there is a neceffity for turning without lofs of time; for, unlefs the head advances fatt and the celivery is quick, the circulation in the veffels will be entirely obftructed, and the child confequently perifh. If the head is low in the pelvis, the forceps may be fucceisfully ufed.

No doubt, if the pelvis is very narrow, or the head too large, it would be wrong to turn; in that cafe, we ought to try if we can pofibly raife the head, fo as to reduce the funis above it, and after that let the labour go on. But if the waters are all gone, and a large portion of the funis falls down, it is impoffible to raife it, fo as to kcep it up, even although
we could eafily raife the head ; becaufe as one part of the funis is pufbed up with the fingers, another part falls down, and evadcs the reduction; and to raife it up to the fide, and not above the head, will be to no purpole: when a little juts down at the fide of the head, our endeavours will for the moft part be fuccefsful.

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THE ancients, as well as fome of the moderns, adrife, in all cafes when the upper parts, fuch as the fhoulders, breaft, neck, face, or ear of the child, prefent, to puin them upward, and bring in the head as in the matural way; obferving, that the foetus cught never to be delivered by the feet, except in the prefentation of the lower parts, fuch as the fimall of the back, belly, fide, breech, or legs. Were it practicable at all times to bring the head into the right poition, a great deal of fatigue would be faved to the operator, inuch pain to the woman, and imminent danger to the child: he therefore ought to attempt this method, and may facceed when he is called bsfore the inembranes are broken, and feels, by the touch, that the face, ear, or any of the upper parts, prefent. In that cafe, let him open the os externum flowly during every pain; and when the os internum is fufficiently dilated by the defcent of the waters and membranes, let him introduce his hand into the uterus, as directed in fect. iii. betwixt the womb and the membranes, which mult be broke; and if he finds the head folarge, or the fclvis fo narrow, that it will be difficult to fave the child, provided the woman is vigorous and has frong pains, he may with little difficulty bring in the crown of the head, then withdraw his hand; and, if the pains return and continue, the child bas a good chance to be delivered alive. (See cliap. ii. feet. iii. No. 3.) Even after the membranes are broke, if the prefenting part hath fo locked up the os internum as to detain fome portion of the waters (a circumftance ealily known in pufhing up the part that prefents) he may eafily run up his Ihand fpeedily to keep thein from being difcharged, and act in the fame manner; but if the child is not large, nor the pelvis narrow, it were pity, while his hand is in the uterus, to defift from turning the child and bringing it by the feet; becaufe in that cafe, we may be pretty certain of faving it. Befides, after the head is brought into the right pofition, fhould the pains go off entirely (and this freguently happens) or a flooding comes on in confequence of the force which hath been exerted, he will find great difficulty in terning after the waters have beendifcharged; for it is harder to turn when the vertex prefents, than in any other polition; where25, in the cafe of a large head or nimow pelvis, when the head is forced down by the labour-pains, and will not farther advance, the child may be faved by the forceps; nay, though the pains do not act fo as to force it down to be delivered cither by the forceps or in the natural way, the had may be opened and extrafted with the crotchet, which is the laft refource.

But this neceffity feldom occurs, becaufe the cafes in which we are moft commonly called are after the membranes have becn long broken, the waters difcharged, and the utcrus Itrongly conisacted round the body of the child, which itconfines, as it were, in a mould; fo that I have frequently tried in vain to bring the head into the natural pofition; for this canmot be effected without firft pufhing up the part that prefents, for which purpofe great force is required; and as one hand only can be introduced,
when the operator endeavours to bring in the head, the pufhing force is abated, to allow the pulling foree to act ; and the parts that hindered the head from prefenting are again foreed down; befides, the head is fo large and hippy, that he can obtain no firm hold. He might, indeed, by introducing a finger into the mouth, loy hold of the under jaw, and bring in the face, provided the fhoulder prefents; but inftead of amending, this would make the cafe worle, unlefs the child be very fmall; yet, granting the head could be brought into the natural pofition, the force neceliarily: excrted for this purpofe would produee a flonding, which com nonly weakens the patient and earries off the pains; and feer all, he mult tura with lefs adrantage ; and if that eannot be performed when the head is brought in, he matt have recourfe to the laft and moft difagreeable method; whereas, when any other part prefents, we ean always turn the ehild, and deliver it by the feet. This we cannot promife after the head is brought in; and when once the operator's hand is in the uterus, he ought not to run fueh riks.
When I firt began to practife, I frequently endeavoured to adjuft the pofition of the head in this manner ; but meeting with thofe infuperable diffeulties I have mentioned, I adhered to that method which I h:ve always found eertain and fafe. I h ve likewife ufed the impellens of Albueafis, in order to keep up the fhoulders pr body until I could bring in the head; but the contraction was always fo gireat, that the inftrument flipped, and was in danger of hurting the uterus. Indeed, when the ear, forehead, or the fontanel, prefented, I have, by puihing up, found the head come into the right pofition; 1 have likewife, when the forehead was toward the groin or fide of the pelvis, moved it more baekwards, by which means the forceps were fixed with more eafe; but I have much oftenerfailed, by the head returning to its former fituation.

The ehild is often in danger, and fometimes loft, when the breech prefents and is low down in the pelvis, provided the thighs are fo ftrongly preffed againt the funis and belly as to ftop the cireulation in the rope; as alfo when the ehild is detained by the head after the body is delivered; in both eafes the danger nuft be obviated by an expeditious delivery ; and if the body is entangled in the navel-ftring, it mult be difengaged as well as poflible, efpecially when the funis happens to be between the thighs. As I have before obferved, many of thefe minute dircctions, in laborious and preternatural eafes, may be thought idle and trifling by thofe practitioners who, without minding any ftated rules, introduce the foreeps, and taking hold on the head at random, deliver with force and violenee; and who, in preternatural deliveries, thruft up thcir hands into the uterus, and, without confidering the pofition, fearch for the feet, pull them down, and deliver in a hurry. Such practice may fometimes fueeeed; but will often deftroy the child, and bruife and injurc the parts of the mothcr, even to the hazard of her life. See collect. xxxiv.

## SECT. $\quad V . \quad N U M B . \quad$.

THE lcgs and brecch of the child being brought down, and the body propcrly turned with the fore parts to the mother's back, let the aecoucheur endeavour to bring it along; but if it is detained by the fize of the belly, diftended with air or water (a cafc that frequently happens when the child has been dead for feverai days) let the belly be operned,
by forcing into it the points of his fciffars; or he may tear it open with the fharp crotchet.

The body of the child bicing dclivered, the arms brought down, and every method hitherio directed unfuccefsfully ufed for the extraction of the hcad, which is detained by being naturally too large, over-offificd, or dropfical, or from narrownefs and diftortion of the peilis; if the belly was not opened, and the child is found to be alive by the motion of the hcart, or pulfation of the arteries in the funis, the forceps ought to be tried (fee tab. xxxv.); but if he finds it impracticable to deliver the head fo as to lave the life of the child, he muft; according to fone, force the points of the fciffars through the lower part of the occipital bone, or through the foramen magnum ; then dilate the blades fo as to enlarge the opening, and introduce ablunt or fharp hook. This operation rarcly fucceeds when the head is over-offified; but may anfwer the purpofe when the bones are foft and yielding, or in the cate of an hydrocephalus; becaufe in the firt the aperture may fometimes be enlarged, and in the other the water will be qvacuated fo as to diminifh the bulk of the head; which will of confequence come along with more cafe.
Some recommend an inftrument to perforate the fkull, with double points curved and joined together; which, when puthed into the foramen, are feparated, and take hold of the infide; but as the opening with the fciffars and introducing the blunt-hook as above, will anfwer the frome end, it is needlefs to multiply inftruments, efpecially as this method is not fo certain as the following:
If, notwithftanding thefe endearours, the head cannot be extracted, let the operator introduce his hand along the head, and his fingers through the os uteri ; then flide up one of the curved crotchets along the ear, betwixt his hand and the child's head, upon the upper part of which it muft be fixed; this being done, let him withdraw his hand, take hold of the inftrument with one hand, turning the curve of it over the forehead, and with the other grafp the neck and fhoulders, then pull along. The crotchet being thus fixed on the upper part, where the bones are thin and yielding, makes a large opening, through which the contents of the fkull are emptied ; the head collapfing, is with more certainty extracted, and the inftrument hath a firm hold to the laft, at the forehead, os petrofum, and bafis of the fkull.

In introducing the crotchet, let the operator remember the caution given in chap. iii. fect. 5 . He muft not begin to pull until he is certain that the point of the inftrument is properly fixed near the vertcx ; and he muft keep the handle back to the perinæum.
The excellency of Mefnard's contrivance is more confpicuous here than when the head prefents; becaufe the curvature of the crotchet allows the point to be fixed on the upper part of the fkull, which is to be toren open; and in puliing, the contents are evacuated, and the head is leffened. By thefe mẹans the principal obitruction is removed; whereas the Atraigfic crotchets take fo flight a hold, and flip fo often, that feveral times I have been very much fatigued before I could effect the delivery; but lave always fuccecded to $m$ fatisfation fince I adopted the other kind. See collect. xxxv. and tab. xxxix.

If one crotchet be found infufficient, let him introduce the other in the fame manner along the oppofite fide, lock and join then together, and pull along, moving and turning the head fo as to hamour the fhape of the pelvis. This method feldom fails to accomplifh his aim, though fometimes very
great force is required; in which cafe he muft pull with leifure and caution.

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IF all the expedients fhould fail, by reafon of the extraordinary offification or fize of the head, or the narrownefs and diftortion of the pelvis, after having ufed the crotchet without fuccefs, he muif feparate the body from the hcad with a biftory or pair of fciflars; then, pufhing up the head into the uterus, turn the face to the fundus, and the vertex down to the os internum and brim of the pelvis; let him direct an affitant to prefs upon the woman's belly with both hands, in order to keep the uterus and head firm in that pofition ; then open the fkull with the fciffars, deftroy the ftructure of thc brain, and extract with the crotchets, as directed in chap. iii. fect.
The head is fometimes left in the uterus by thofe practitioners who (not knowing how to turn the the fore parts and face of the child toward the back part of the uterus, or how to bring it along although it prefented in that pofition) pull at random with all their ftrength, fo that the neck is ftretched and feparated, and the head left behind. This may alfo happen to an expert accoucheur, when the child hath been dead for many days, and the body is much mortified, even though he hath ufed all the neceffary precautions.
In fuch a cafe, provided the head is not vcry large, nor the pelvis narrow, and the forehead is toward the facrum, let him flide up his hand along the back part of the pelvis, and, introducing two fingers into the mouth with the thumb below the chin, try to pull the forehead into the hollow of the facrum ; if it flicks at the juting-in of that bone, he mult endeavour to move it firt to one fide and then to the other. If the head is fmall, it will come along; if any fragment of the neck remains, or any part of the loofe Rkin, he may lay hold of it, and affift delivcry by pulling at it with his other land; if the head is low down, it may be extracted with the forceps.

Should all thefe materials fail, let him pufh up his hand along the fide of the head, until it hall have paffed the os internum; with the other hand let him introduce one of the curved crotchets, and fix it upon the upper part of the head ; then withdrawing the hand which was introduced, take hold of the inftrument, and fliding the fingers of the other hand into the mouth, he muft pull down with both as above directed. If the head is not overoffilied, the crotchet will tear open the fkull, and the bulk being of confequence diminithed, the whole may be brought along, even in a narrow pelvis; but if it cannot be moved even by this expedient, he muft introduce the other crotchct along the other fide of the hcad, and fixing it upon the fkull, lock them together; then, in pulling, turn the forehead down into the hollow of the facrum, and extract with an half-round turn upward, as when delivering with the forceps.

If the forchead is toward the os pubis, and cannot be brought into the right pofition, let him with his hand pufh up the hcad into the uterus, turn the forehead from the anterior to the fide or back part of it, and try to extract as beforc. If the child hath been dcad foine time, and is much mortificd, he muft pull cautioufly at the under jaw, becaufe, fhould that give way, he will have no other hold for pulling or keeping the head fteady, when he attempts to extraft with onc crotchet.

Wherr the head is fo large, or the pelvis fo narrow, that none of thefé methods will fucceed, let him puif up, and, turning the upper parts dowrr ward, direct an affiftant to prefs the patient's belly with botḧ hands, moving them from fide to fide, and fqueezing in fuch' a direction, as will force the head toward the os internum, and retain it firmly in that pofition; then it mult be opened and extracted, according to the dircctions given in chap. iii. feît. vii. numb. ii.

Although by thefe methods I have fucceeded in a few cafes of this kind, which have hatppened in my practice, yet as great dificulties may occur from inflammations of the pudenda, contraction of the uterus, nippinefs or largene'f of the head, and the narrownefs of the pelvis, it will not he improper to inform the reader of other methods that appear to me ufeful, particularly when the parts are much contracted and fwelled. Let the hand be introduced into the vagina, and if it cannot be admitted within. the uterus, the fingers being inimuated, may move the head fo as to raife the face and chin to the fundus, the vertex being.turned to the os internum, and the forehead toward the fide of the facrum. This being effected, let the operator flide up along one ear a blade of the long forceps, which are curved to the fide (fee tab. xvii. xxxv.) ; then change hands, and fead up the other blade along the oppofite ear ; when they are locked and the handles. fecured by a fillet, he muft pull the head as low as it will come; then putting them into the hands of an affiftant, who will keep them in that pofition, let him make a large opening with the fcifars, fqueeze the head with: great force, and extract flowly and by degrees.

There is an old inftrument with two fides which turn on a pivot, formerly recommended in this cafe, and fince improved, with the addition of another fide, by Mr. Leveret, who gives it the denomination of tirb-tete : but as I thought the contrivance was too complex, and the blades too much confined to a circular motion, I have altered the form of it in a manner that renders it more fimple, convenient, and lefs expenfive. Having turned down the vertex as above dirccted, let this inftrument, with the three fides joined together, be introduced along the accoucheur's hand to the upper part of the head, then let the fides or blades be opened with the other hand, fo as to inclofe the head, moving them circularly and lengthways in a light and eafy manner, that they nay pafs over the inequalities of the fcalp, and avoid the refiftance of the head and uterus; when they are exactly placed at equal diftances from one another, let him join the handles, withdraw his hand, and tying them together with a fillet, pull down, open, and extract, as above diected ; and let it be remembered, that the farther the hand can bsintroduced into the uterus, the more eafily will both inftruments be managed.

When the pelvis is large, or the head fmall (in. which cofes this miffortune feldom happens) without doubt we might fucceed with Mauriceau's broad fillet or fling, provided it could be properly applied ; but, upon trial, I found my hand fo much cramped by the contraction of the uterus, and was fo much incommoded by the flippinefs of the head, upon which I could not fix it fo as to have fufficient hold, that after many fruitlefs efforts I was obliged to have recourfe to the fciffars and crotchets as above.

Amand's net is attended with the fame difficulties; and rather more troublefome, as it is more compounded; for, when it is mounted on the operator's hand, it will be found fcarce practicable to bring over the head the narrow fillet by which it is pulled along, becaufe it commonly fides off from one fide or the other.

If the placenta adheres to the uterus, let him firft extract the head; if the cake is feparated and in his way, let him deliver it before he begins to deliver the head.
When the head is frall, or the pelvis large, dilating the foramen magnum with the fciflars, and introducing the blunt hook, may be of ufe .either to pull the head along or keep it down, until we can fix the forceps, curve-crotchet, or Leveret's tire-tcte. See collect. xxxvi.

## C H A P. V. Of Twins.

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TW I N S are fuppofed to be the effect of a double conception in one coition, when two or more ova are impregnated with as many animalcula; which defcending from the ovarium, through the Fallopian tube, into the fundus uteri, as they increafe, come in contact with that part, and with one another, and are fo preffed as to form one globular figure, and ftretch the womb into the fame form which it affumes when dittended by one ovum only; and that, during the whole term of uterine geftation, it is impoffible to diftinguifh twins, either by the figure and magnitude of the uterus, or by the motion of the different foetufes; for one child, when it is large and furrounded with a great quantity of waters, will fometimes produce as large a prominenee (or even larger) in the woman's belly, than is commonly obferved when the is big with twins. One child will alfo, by moving its legs, arms, and other parts of its body againt different parts of the uterus, at the fame inftant or by intervals, yield the fame fenfation to the mother as may be obferved in two or more children; for part of the motion in twins is employed on each other, as well as upon the utcrus.

There is therefore no certain method of diftinguihing in thefe cafes, until the firt child is delivered, and the accoucheur has examined if the placenta is coming along. If this comes of itfelf, and after its extraction the mouth of the womb be felt contracted, and the operator is unwilling to give unneceffary pain by introducing his hand into the uterus; let him lay his hand upon the woman's abdomen, and if nothing is left in the womb, he will generally feel it, juft above the os pubis, contracted into a firm round ball of the fize of a child's head, or lefs; whereas, if there is another child left, the fize will be found much larger. If the placenta docs not come down before the fecond child, which is frequently the cafe, upon examining he will commonly feel the membranes with the waters puthed down through the os uteri; or, if they are broken, the head or fome part of the body will be felt. If, therefore, the woman has ftrong pains, and is in no danger from foodings or weaknefs, provided the head prefents fair, and feems to come along, fhe will be delivered of this alfo in the natural way.

If the membranes are not broken, if the head does not immediately follow, or if the child prefents wrong, he ought to turn and bring it immediately by the feet, in order to fave the patient the fatigue of a fecond labour, that may prove tedious and even dangerous by enfeebling her too much. Befides, as the parts are filly opened by the firft delivery, he can introduce his hand with cafe; and as the membranes are for the mof part
whole, the waters may be kept up, and the fætus eafily turned, as in chap. iv. fect. ii. but if the pelvis is narrow, the woman ftrong, and the head prefents, he ought to leave it to the efforts of nature.

If the firft child prcfents wrong, and in turning that he feels another, he muit be aware of breaking the membranes of one while he is at work upon the other; but fhould they chance to be broke, and the legs of both entangled together (though this is feldom the cafe, beraufe they are commonly divided by two fets of miembranes) let the operator, when he has got hold of two legs, run up his fingers to the breech, and feel if they belong to the fame body; and one child being delivered, let the other be turned and brought out in the fame manner. If there are more than two, the fame method muft take place, in extracting one after another.

In cafe of twins, the placenta of the firt feldom comes along until the fecond child is delivered; but as this does not always happen, he ought, as formerly directed, to certify himfelf that there is nothing left in the uterus, when the cake comes of itfelf, Both children being delivered, let him extract both placentas, if they come not of themfelves; and if they form diftinct cakes, feparate firf one, then the other; but if they are juined together, forming but one mafs, they may be delivered at once, as in chap. ii. fect. vii.
When there are three or four children (a cafe that rarely happens) the placentas are fometimes diftinct, and fometimes altogether form but one round cake; but when this is macerated in water for fome days, they, with their feveral membranes, may be eafily feparated from one another; for they only adhere in confequence of their long preffure in the uterus, and feldom have any communication of veffls; although fuch a communication hath lately fallen under my obfervation. See booki. chap, iii. fect. v.

Twins for the moft part lie diagonally in the uterus, one below the other; fo that they feldom obftruct one another at the os internum. See collect. xxxvii. and tab. x .

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TWO children joined together by their bellies (which is the mot common cafe of monftrous births) or by the fides, or when the belly of the one adheres to the back of the other, having commonly-but one funis, are comprehended in this clafs, and fuppofed to be the effect of two animalcula impregnating the fame ovum, in which they grow together, and are nourifed by one navel-ftring, originally belonging to the fecundines; becaufe the veffels pertaining to the coats of the veins and arteries cio not anafomofe with the velfels belonging to the fortus.

In fuch a cafe, where the children were fmall, the adhefion hath been known to ftretch in puilling at the feet of one, fo as to be delivered; and the other hath been afterwards bronght along in the fame manner, without the neceffity of a feparation.

When the accoucheur is called to a cafe of this kind, if the children are Yarge, and the woman come to her full time, let him firit attempt to deliver them by that method; but if, after the legs and part of the body of the firft are brought down, the reft will not follow, let him flide up his hand, and with his fingers examine the adhefion; then introducing the fiffars between his hand and the body of the foctus, endeavour to feparate them by fnip-
ping through the juncturc. Should this attempt fail, he muft diminifh the bulk in the beft manner he can think of, and bring the body of the firt, in different pieces, by pulling or cutcing them afunder, as he extracts with the help of the crotchet.

No certain rules can be laid down in thefe cafes, which feldom happen: and therefore a great deal muit be left to the judgment and fagacity of the operator, who muft regulate his conduct according to the circumftances of the cafe, and according to the directions given for delivering when the pelvis is narrow and the children extraordinary large.

Formerly, practitioners ufed fraight and crooked knives with der handles, which were introduced into the uterus along the hand, in or to cut and divide the bodies of children, that they might be extracted piece-meal; and this cruel practice obtained even in fome cafes which we can now manage with eafe and fafety by turning and dclivering the færtus by the feet. But, no doubt, fone will happen in which it is impoffible to preferve or deliver the children without the help of inftruments; and in fuch an emergency, the fciffars are much fafer than knives, with whicl the operator runs the rifk of cutting the uterus or himfclf ; whercas he is expofed to no fuch hazard from the other, which cut only betwixt the points. See collect. xxxviii.

## $S E C$ T. IH.

## OF THEC厌SARAN OPERATION.

WHEN a woman cannot be delivered by any of the methods hitherto defcribed and recommended in laborious and preternatural labours. on account of the narrownefs or diftortion of the pclvis, into which it is fometimes impoffible to introduce the hand; or from large excrefcences and glandular fwellings that fill up the vagina, and cannot be removed; or from large cicatrices and adhefions in that part and at the os uteri, which cannot be feparated; infuch emergencies, if the woman is ftrong and of. a good habit of body, the Cæfarian operation is certainly advifeable, and ought to be performed; becaufe the mother and child have no other chance to be faved, and it is better to have recourfe to an operation which hath fometimes fucceeded, than leave them both to inevitable death. Neverthelefs, if the woman is weak, exhaufted with fruitlefs labour, violent floodings, or any other evacuation which renders her recovery doubtful, even if fhe were deliverced in the natural way; in thefe circumfances it would be rafhnefs and prefumption to attempt an operation of this kınd, which ought to be delayed until the woman expires, and then immediately performed with a view to fave the child.

The operation hath been performed both in this and the laft century, and fomctimes with fuch fuccefs, that the mother has recovered, and the child furvived. The previous fteps to be taken are, to ftrengthen the patient, if weak, with nourifhing broths and cordials; to evacuatc the indurated faces with repeated clyfters; and if the bladder is diftended with urine, to draw it off with a cathetcr. Thefe prccantions being taken, fhe muft be laid on her back. on a couch or bed, her fide on which the incifion is to be made bcing raifed up by pillows placed bclow the oppofite fide : the operation may he performed on either fide; though the left is commonly preferred to the riglt, becaufe in this laft, the liver extends lower. The apparatus confifts of a biftory, probe-fciffars, large necdles threaded,

Eponges, warm water, pledgets, a large tent or doffil, compreffes, and $z$ bandage for the belly.

If the weather is cold, the patient muft be kept warm, and no part of the belly uncovered except that on which the incifion is to be made ; if the operator be a young practitioner, the place may be marked by drawing a line along the middle fpace between the navel and the os ilium, about fix or feven inches in length, flanting forward toward the left groin, and beginning as high as the navel.

According to this direetion, let him hold the fkin of the abdomen tenfe between the finger and thumb of one hand, and with the biftory in the other make a longitudinal incifion through the cutis to the membrana adipofa, which, with the mufcles, mult be flowly diffected and feparated, until he reaches the periionæum, which muft be divided very cautioully, for fear of wounding the inteitines that frequently ftart up at the fides, efpeci 1 ly if the membranes are broken, the waters difcharged, and the eterus contracted.

The peritonæum being laid bare, it may be either pinched up by the Engers, or flowly diffected with the biftory, until an opening is made fuffcient to admit the fore-finger, which mult be introduced as a director for she biftory or fciffars in making an effectual dilatation. If the inteftines pufh out, let them be preffed downwards fo as that the uterus may come in contact with the opening. If the wamb is ftill diftended with the waters, and at fome ditance from the child, the operator may make upon it a longitudinal incifion at once; but.if it is contracted clofe round the body of the fatus, he muft pinch it up, and dilate in the fame cautious manner practifed upon the peritonxum, taking care to avoid wounding the Wallopian tubes, ligaments, and bladder; then introducing his hand he may take out the child and fecundines. If the woman is ftrong, the uterus immediately contracts, fo as that the opening, which at firlt extended to about fix or feven inches, is reduced to two, or lefs; and in confequence of this contraction, the veffels being fhrunk up, a great effufion of blood is prevented.

The coagulated blood being removed, and what is fill fluid fponged up, the incifion in the abdomen mult be flitched with the interrupted future, and fufficient room left between the laft ftitch and the lower end of the opening, for the difcharge of the moilture and extravafated fluid. The wround may be dreffed with dry pledgets or doffils dipped in fome liquid lalfam, covered with compreffes moittened with wine, and a bandage to 5eep on the dreflings and futtain the belly. Some authors obferve, that the cutis and mufcles only fhould be taken up in the future, left bad fymptoms fhould arife from ftitching the peritonæum.

The woman muft be kept in bed, as quiet as poffible, and every thing adminiftered to promote the lochia, perfpiration, and feep; which will prevent a fever and other dangerous fymptoms. If fhe hath loft a great quantity of bload from the wounds in the uterus and abdomen, fo as to be in danger from inantion, bruths, caudles, and wine, ought to be given in fimall quantities, and frequently repeated; and the cort. Peruvian. adminiftered in powder, decoction, or extract, may be of great fervice in this cafe. For farther iaformation on this fubject, the reader may confult Fuffetus, the Memoirs of the Academy of Surgeons at Paris, and Heiter's Surgery. See collect. xxxix,

## B O O K IV. C H A P. I.

Of the management of women from the time of their delivery to the end of the month, with the Jeveral dijeajes to which they are fubject during that period.

## S E C T. I.

OF THE EXTERNAL APPLICATION.

TH E woman being delivered of the child and placenta, let a fort linen cloth, warmed, be applied to the external parts; and if the complains much of a fmarring forenefs, fome pomatum may be fpread upon it. The linen that was laid below her, to fponge up the difcharges, muft be removed, and replaced with others that are clean, dry, and warm. Let het lie on her back, with her legs extended clofe to each other; or upon her fide, if fhe thinks fhe can lie eafier in that pofition, until the recovers from the fatigue; if fhe is fpent and exhautted, let her take a little wam wine or caudle, or, according to the common cuftom, fome nutmeg and fugar grated together in a fpoon: the principal defign of adminiftering this powder, which among the good women is feldom neglected, is to fupply the want of fome cordial draught, when the patient is too weak to be raifed, or fuppofed to be in danget of retchings from her flomach being overloaded. When the hath in fome meafure recovered her ferength and ipirits, let the cloths be removed from the parts, and others applied in their room; and if there is a large difcharge from the uterus, let the wet linen below her be alfo fifted, that the may not run the rifk of catching cold.

When the patient is cither weak or faintifh, the ought not to be taken out of bed, or even raifed up to have her head and body fhifted, until fhe is a little recruited; otherwife the will be in danger of repeated fantings, attended with ennsulfions, which fometimes end in death. To prevent thefe bad confequences, her fkirt and petticoats ought to be loofened and pulled down cver the legs, and replaced by another, well warmed, with a broad head-band to be flipped in below, and brought up over her thighs and hips; a warm double eloth mult be laid on the belly, which is to be furrounded by the head-band of the fkirt pinned moderately tight over the cloth, in order to comprefs the vifcera and the relaxed parietes of the abdomen, more or lefs, as the woman can eafily bear it; by which means the uterus is kept firm in the lower part of the aboomen and prevented from rolling from fide to fide when the patient is turncd; but the principal end of this compreffion is to hinder too great a quantity of blood from ruhing into the rel:xed veffels of the abdominal contents; efpecially when the uterus is emptied all on a fudden by a quick delivery. The preffure being thus fuddenly removed, the head is all at once robbed of its proportion of blood, and the immediate revalfion precipitates the patient into dangerous lypothemin.

For this reafon the belly ought to be firmly compreffed by the hands of an affittant, until the bandage is applied; or, in lieu of it, a long towel, theet, or roller, to make a fuitable compreffion; but for this purpofe differcnt methods are-ufed in different countries, or according to the different circumftances of the patients. The head-cloths and fhift ought alfo to be changed, becaufe, with fweating in time of labour, they are rendered wet and difagrecable. Several other applications are neceffary when the external or internal parts are rent or inflamed, misfortunes that formetimes happen in laborious and preternatural cafes.

The directions for ordering the bed in time of labour, and of the applications after delivery, are abfolutely neceffary to be known by young practitioners; becaufe all thefe precautions are for the eafe and fafety of the patient when attended by inexpericnced nurfcs.

## $N \quad U M B . \quad I$.

INFLAMMATIONS of the labia pudendi, rectum, urethra, vagina, and uterus, chiefly happen when the head, fhoulder, breech, or any other part of the foetus, hath been forced into the pelvis, and long detained in that fituation; fo that, by many ftrong pains, the delivery was effected, or great force and violence werc required to turn or extract the child. Thefc inflammations, if nlight, are commonly relieved, or altogether refolved, by a plentiful difcharge of the lochia, relf, and profufe fweating; but if violent, bleeding, warm fomentations, cataplafins, and emollient clyfters, may be neceffary; though the firt and laft muft be ufed with caution.

If the preffure hath been fo great as totally to obflruct the circulating Gluids in thofe parts, a mortitication enfues; either total, by which the woman is foon deftroyed; or partial, when the mortified parts feparate and caft off in thick floughs, then digeft, and are healed as a common fore provided the patient be of a good habit of body ; but if the oppofite parts are alfo affected in the famc manner, and both fides preffed together (as for example, in the uterus, os internum, vagina, or os externum) or if the internal membrane of the wholc inner furface floughs off, then there is danger of a coalefcence, or growing together, by which are formed callofities; and thefe if thcy happen in the os internum, vagina, or os externum, will produce difficult and dangerous labours in the next parturition; and if in the uterus, will altogether prevent conception; though this rarely happens, becaufe of the continual draining of the moitture that is difcharged from the womb. In order to avoid this mifchance, emollient injections ought frequently to be thrown up into the uterus, and large tents or doffils dipped in vulnerary balfams applict in the vagina and os externum.

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IF, in confequence of the long preffure of the child's head at that part of the vagina where its outward furface is attached to the back and under part of the bladder, the mortification affects the coats of the vefica urinaria, as well as thofe of the vagina, whea the lloughs fall off, the urine will pals that way, and hinder the opening (if large) from being clofed; this is an inexpreflible inconvenience and misfortune to the poor woman, both from the fmell and continual wetting her clothes. The ragina and bladder may alfo be lacerated by the forceps, crotchet, or any other inftrument imprudently forced up; but, in that cafe, the urine is immediately difcharged
through the wound ；whereas in a mortification，it comes off in a natural way，until the flough begins to feparate and fall off．

As foon as this misfurtune is known，the cure ought to be attempted； this（according to fome）confifts in keeping a flexible catheter always in the bladder，that the urine may be continually follicited to come throngh the urethra rather than through the vagina；but if this precaution hath been neglected，and the lips of the ulcer are turned callous，we are directed to pare then off with a curved knife，buttoned at the point，or confume them with lunar cauftic a and，if the opening is large，to clofe it with a double ftitch，keeping the flexible catheter in the bladder until it is entirely filled up；but I wifh this operation may not be found impracticable．

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THE os externum is frequently toren，particularly at the perinæum and fometimes the laceration reaches to the anus．At othcr times （but more feldom）both vagina and rectum are toren for the fpace of two or three inches upward，and the two form but one cavity at the lower part．This laceration is frequently occafioned from the exceffive largenefs of the child＇s head；from the rigidity of the fibres in $u$ men who are near the borders of forty when their firt children are born；from the accoucheur＇s neglecting to fide the perinæum over the head when it is forci－ bly propelled by the pains，or from his omitting to keep up the head with the flat of his，hand that it may not come too fuddenly along；from too great violence ufed in laborious or preternatural labours；and from the operator＇s incautious manner of thrufting in his hand．If the laceration be fmall，the part foon heals up，and the only inconvenience attending the wound is a fmarting after making water；and when the laceration is large， extending to the edge of the fphincter ani，or even farther，this pain is ftill more troublefome，and increafed upon the leaft motion by the friction of the lips againft each other．＇This difagreeable rubbing，is（according to fome writers）prevented by making two deep ftitches that will keep the lips together；but in this cafe，we can feldom cure by the firft intention， on account of the moifture that is continually pafing that way，namely the lochia and urine，＂that infinuate themfelves into the wound．Befides，the lips are toren and ragged，and the hold we have is but flender．
In the third cafe，it is fuppofed that there is an abfolute neceffity to make，as foon as poffible，two，three，or fometimes four，deep ftitches through the toren vagina and rectum，the knots being tied in the vagina， and two more ftitches in the perinæum，to affitt the re－union of the parts； for if the fphincter ani is entirely feparated，and continues in that condi－ tion，the patient can feldom retain her excrements for any length of time－ If this misfortune fhould remain unknown，or the operation unperformed， on account of the woman＇s weaknefs，until the lips of the wound arc grown callous，thefe callous edges nuuf be pared off with fciffars；or，if that thould be found impracticable，fearified with the point of a lancet or biltory，and then ftitched as above dirccted；and the ftitches muft be made very decp，otherwife they will not hold ；becaufe there is but little muf－ cular flefh in the vagina and rectum ：but the colon ought firft to be emp－ ticd with clyffers，＇and the patient take little or no folid food，that the fitches may not be over－ftrained when the goes to ftool．When the lacern－ tion reaches fo high as to endanyer the woman＇s retentive faculty，this
method，doubtlefs，ought to be tried ；but not otherwife，becaufe the operation very rarely fuccecds．

When the os internum is tore from the fame caufes，all that can be done is to keep the patient ftrictly to the regimen we have directed for women after delivery，and take care that the fhall move as little as poffible during the firt three weeks

The rents or lacerations that happen to the utetus are of more danger－ ous confequence，and indeed commonly accounted mortal ；thereforc they demand the utmoft care and circumfpection in all the different cafes．If the patient is plethoric，the oinght to be bled，in order to prevent a fever，unlefs the hath undergone a confiderable difcharge from the uterus； The ought to be kept very quiet and motionlefs；to take nothing but fpoon－ meat，and even of that a little at a time；and drink diluting liquors，fuch as barley－water and very weak broths．

## S E C T．IT．

OF AIR，DIET，SLEEPING AND WATCHING，MOTION AND REST；RE－ TENTION AND EXCRETION，AND THE PASSIONS OF THE MIND．

ALTHOUGH we cannot remove the patient immediately after delivery into another climate，we can qualify the air，fo as to keep it in a mo－ derate and falntary temper，by rcndering it warm or cold，moift or dry， according to the circumftances of the oecafion．With regard to diet， women in time of labour，and even till the ninth day after delivery，ought to eat little folid food，and none at all during the firf five or feven ：let them drink plentifully of warm diluting fluids，fach as barley－water，gruel， chicken－water，and teas；caudles are alfo commonly uferi，cor．ipofed of water－gruel boiled $u p$ with mace and cinnamon，to which，when itrained， is added a third or fourth part of white－wine，or kefs if the patient drinks plentifully，fiveetened with fugar to their tate：this compofition is term－ ed subite－caudle；whereas，if ale is ufed inftead of wine，it goes under the name of brown－caudle．In fome countries，eggs are added to both kinds； but in that cafe，the woman is not permitted to eat meat or broths till after the fifth or feventh day：in this country，however，as eggs are no part of． the ingredients，the patient is indulged with weak broth fooner，and fome－ times allowed to eat a little boiled chicken．But all thefe different prepara－ tions are to be prcfcribed weaker or ftronger，with regard to the fpices， wine，or ale，according to the different conititutions and fituations of different patients；for example，if the is low and weak，in confequence of an extraordinary difcharge of any kind either before or after delivery， of if the weather is cold，the caudles and broths may be made the ftronger ； but if the is of a full habit of body，and has the leaft tendency to a fever， or if the feafon is exceffively hot，thefe drinks ought to be of a very weak confiftence，or the patient refricted to gruel，tea，barley and chicken： water，and thefe varied according to the emergency of the cafe．

Her food muft be light and eafy of digettion，fuch as panada，bifcuit， and fago；about the fifth or feventh day，the may eat a little boiled chicken，or the lighteft kind of young meat ；but thefe laft may be given fooner or later，according to the circumftances of the cafe and the appetite of the patient．In the regimen，as to eating and drinking，we fhould rather err on the abftemious fide，than indulge the woman with meat and ftrong fermented liquors，even if thefe laft fhould be mof agrecable to her
falate; for we find by experience, that they are apt to inereafe or bring on fevers, and that the mott nourifhing and falutary diet is that which we have above prefcribed. Every thing that is difficult of digettion, or quickens the circulating fluids, muft of neceffity promote a fever; by which the neceffary difcharges are obftructed, and the patient's life endangered.

As to the article of feaping and watching, the patient muft be kept as free from noife as poffible, by covering the floors and ftairs with carpets and cloths, oiling the hinges of the doors, filencing the belis, tying ap the knockers, and, in noify ftreets, flrewing the pavement with ftraw: if, notwichftanding thefe precautions, the is difturbed, her ears muft beftuffed with carton, and opiates adminiftered to procure fleep; becaufe watching makes her reflefs, prevents perfpiration, and promotes a fever.-Motion and reft are another part of the non-naturads to which we ought to pay particular regard. By toffing about, getting out of bed, or fitting up too long, the perpiration is difcouraged and interrupted ; and in this lait attitude the uterus, not yet fully contracted, hangs down, fretching the ligaments, occafioning pain, cold fhiverings, and a fever: for the prevention of thefe bad fymptoms, the patient muft be kept quiet in bed till after the fourth or fifth day: and then be gently lifted up in the bedclothes, in a lying pofture, until the bed can be adjufted, into which the muft be immediately re-conveyed, there to continue, for the moft part till the ninth day; after which period ivomen are not fo fubject to fevers as immediately after delivery. Some there are, who, from the eature of their conititutions or other accidents, recover more flowly; and fuch are to be treated with the fame caution after as before the ninth day, as the cafe feems to indicate. Others get tup, walk about, and recover, im a much shorter time; but thefe may, fome time or other, pay dearly for their fool-hardinefs, by encouraging dangerous fevers; fo that we ought rathes to erron the fafe fide, than rum any rilk whatfoever.

What next comes under confideration, is the circumftance of retention and excretion. We have formerly obferved, that in the time of labour, before the head of the child is locked into the pelvis, if the woman has not hid eafy paffage in her belly that fame day, the rectum and colon ought to be emptied by a clyfter, which will affift the labour, prevent the difagreeable excretion of the faces before the child's head, and enable the patient to remain two or three days after without the neceffity of going to ftool. However, thould this precaution be neglected, and the patient very coftive after delivery, we muft be aware of throwing up ftimulating clyfters, or adminiftering fromg cathartics, left they thould bring on too many loofe fools, which, if they cannot be ftopped, fometimes produce fatal confequences, by obftructing the perfpiration and lochia, and exhaurting the woman, fo as that fie will die all on a fudden; a cataftrophe which hath frequently happened from this practice. Wherefore, if it be neceffary to empty the inteltines, we ought to preferibe nothing but emollient clyfters, or fome very gentle opener, fuch as manna, or clect. lenitioum.

For the retention of urine that fometímes happens after labour, we have already propofed a remedy in Book II. chap..ii. fect. iii. But no excretion is of more confequence to the patient's recovery than a free perfpiration; which is fo abfolutely neceffary, that undefs the has a moifture continually on the furface of her body for fome days after the birth, the feldom recovers to advantage; her health, therefore, in a great meafure deperds upon her exjoying undifturbed repofe, and a conftant breathing
fweat, which prevents a fever, by carrying off the tenfion, and affifts the equal difcharge of the lochia; and when thefe are obftructed, and a fever enfues with pain and refleffnefs, nothing relieves the patient fo effectually as reft and profufe fweating, procured by opiatcs and fudorifics at the beginning of the complaints; yet thefelaft muft be more cautioufly prefcrib. ed in excefive hot, than in cool weather.

The laft of the non-naturals to be confidered, are the paffions of the mind, which alfo require particular attention. The patient's innagination muft not be difturbed by the news of any extraordinary accident which may have happened to her family or friends; for fuch information hath been known to carry off the labour-pains entirely, after they were begun, and the woman has funk under her dejection of fpirits; and, even after delivery, thefe unfeafonable communications have produced fuch an anxiety as obftructed all the neceffary excretions, and brought on a violent fever and convulfions, that ended in dcath.

## $S E C$ T. $I I T$.

## of VIOLENT FLOODINGS

ALL women, when the placenta feparates, and after it is delivered, lofe more or lefs red blood, from the quantity of half a pound to that of one pound or eventwo; but fhould it exceed this proportion, and continue to flow without diminution, the patient is in great danger of her life, This hazardous hæmorrhage is known by the violence of the difcharge wetting frefh cloths as faft as they can be applied ; from the pulfe becoming low and weak, and the countenance turning pale; then the extremitics grow cold ; fhe finks into faintings; and, if the difcharge is not fpeedily fopped or diminifhed, is feized with convulfions, which often terminate in death.

The dangerous eflux is occafioned by every thing that hinders the emptied uterus from contracting; fuch as; great weaknefs and laffitude, in confequence of repeated floodings before delivery; the fudden evacuation of the utcrus; fometimes, though feldom, it proceeds from part of the placenta being left in the womb; it may happen when thcre is another child, or more, fill undelivered; when the womb is kept diftended with a large quantity of coagulated blood; or when it is inverted by pulling too forcibly at the placenta. See Book II. chap. iisi fect. iii.

In this cafe, as there is no time to be loft, and internal medicines cannot aft fo fuddenly as to anfwer the purpofe, we muth have immediate recourfo to external application. If the diforder be owing to weaknefs, by which the uterus is difabled from contracting itfelf; fo that the mouths of the veffels are left open; or though contracted a little, yet not enough ta reftrain the hxmorrhage of. the thin blood; orif, in feparating the plaz centa, the accoucheur has fcratched or tore the inner furface or membrane of the womb; in thefe cafes, fuch thing's muft be ufed as will affift the contractile power of the utcrus, and hinder the blood from flowing fo faft into it and the neighbopring veffels; for this purpofe, cloths dipped in any cold aftringent fluid, fuch as oxycrate, or red tart wine, may he applied to the back and belly. Some prefcribe venafection in the arm, to the amount of five or fix ounces, with a view of making revulfion; if the pulfe is Atrong, this may be proper ; othcrwife it will do more harm than good. Others order ligatures, for comprefing the returning vcins at the hams, arms, and' neck,' to retain as much blond as poffible in the extremities and head, Befides thefe applications, the vagina may be filled with tow or linen rags
dipped in the above-mentioned liquids, in which a little alum or faccbarum faturni hath been diffolved; nay, fome practitioners inject proof-fpirits warmed, or, foaking them up in a rag or fpongc, introduce and fqueeze them into the uterus, in order to confringe the vefiels.

If the floodings proceed from another child, the retention of the placenta, or coagulated blood, thefe ought inmediately to be extracted, 'and if there is an inverfion of the uterus, it muft be fyeedily reduccu. Should the hæmorrhage, by thefe methods, abate a little, but ftill continue to flow, though not in fuch a quantity as to bring on fudden death, fome red-wine and jelly ought to be prefcribed for the patient, who fhould talee it frequently, and a little at a time, but, above all things, chicken or mutton broths adminiftered in the fame manner, for fear of over-loading the weakened ftomach, and occafioning retchings: thefe, repeated in fmall quantities, will gradually fill the exhaufted veffels and keep up the rirculation. If the pulfe continues ftrong, it will be roper to order repeated draughts of barley-water, acidulated with elixir of yitriol ; but if the círculation be weak and languid, extract of the bark, diffolved in aq. cinnamoni tenuis, and given in fmall draughts, or exhibited in any other form, will be fervice :ble; at the fame time, lulling the patient to relt with opiates. Thefe, indeed, when the firf violence of the fooding is abated, if properly and cautioully ufed, are generally more effectual than any other medicine.

## $S E C T$. IV.

## OF THE AFTER-PAINS,

AFTER-PAINS commonly happen when the fibrous part of the blood it retained in the uterus or vagina, and formed into large clots, which are detained by the fudden contraction of the os internum and externum, after the placenta is delivered; or, if thefe fhould be extracted, others will fometimes be formed, though not fo large as the firf, becaufe the cavity of the womb is continually diminifhing after the birth. The uterus, in contracting, preffes down thefe coagulums to the os internum; which being again gradually ftretched, produces a degree of labour-pains, owing to the irritation of its nerves; in confequence of this uneafinefs, the woman fqueezes the womb as in real labour ; the force being increafed, the clots are puthed along, and when they are delivered the grows eafy. The larger the quantity is of the coagulated blood, the feverer are the pains, and the longer they continue.

Women in the firft child, feldom have after-pains ; becaufe, after delivery, the womb is fuppofed to contract, and puin off the clots with greater force in the firt than in the following labours ; after-pains may alfo procced from obftructions in the veffels, and irritations at the os internum. In order to prevent or remove thefe pains, as foon as the placenta is feparated and delivered, the hand being introduced into the uterus, may clear off all the coagula. When the womb is fclt, through the parietes of the abdomen', larger than ufual, it may be taken for granted there either is another child, or a large quantity of this clutted blood; and which foever it may bc, there is a neceffity for its being extracted. If the placenta comes away of itfelf, and the after-pains are violent, they may be alleviated and carried off by an opiate: for, by flccping and fweating plentifully, the irritation is removed, the cracuations are increafed, the os uteri is infenfibly relaxcd, and the coagula flide eafily along. When the difcharge of the lochia is fmall, the after-pains, if moderate, ought not to
be reftrained; becaufe the fqueezing which they occafion, promotes the other evacuation, which is neceflary for the recovery of the patient. Afterpains may alfo proceed from an obftruction in fome of the veflels, occafroning a fmall inflammation of thic os internum and ligaments; and the queczing thereby occafioned may not only help to propel the obftructing guid, but alfo (if not too violent) contribute to the natural difcharges.


WE have already obferved, that the delivery of the child and placenta is followed by an efflux of more or lefs bluod, difcharged from the uterus, which, by the immediate evacuation of the large veffels, is allowed to contract itfelf the more freely, without the danger of an inflammation, which would probably happen in the contraction, if the great veffels were not emptied at the fame time; but as the fluids in the fmaller veffels cannot be fo foon evacuated or returned into the vena cava, it is neceffiary that, after the great difcharge is abated, a now and gradual evacuation fhould continue, until the womb fhall be contracted to near the fame fize which it had before pregnancy; and to this it attains about the eighteenth or twenkieth day after delivery, though the period is different in different wómen.

When the large veffels are emptied immediately after delivery, the difcharge frequently ceafes for feveral hours, until the fluids in the fmaller veflels are propelled into the larger, and then begins to flow again of a paler colour.
The red colour of the lochia commonly continues till the fifth day, though it is always turning more and more ferous from the beginning; but abopt the fifth day, it flows of a clear, or fometimes (though feldom) of a greenith tint ; for the mouths of the yeffels, growing gradually narrower by the contraction of the uterus, at laft allow the ferous part only to pafs. As for the greepinh hue, it is fuppofed to proceed from a diffolution of the celLular or cribriform membrane or mucus that furfounded the furface of the placenta and chorion; part of which, being left in the uterus, becomes fivid, decays, and, diffolving, mixes with and tinẹtures the difcharge as it paffes along.

Though the lochia, as we have already obferved, commonly continuc to the eighteenth or twentieth day, they are every day diminifhing in quantity, and fooneft ceafe in thofe women who fuckle their children, or have had an extraordinary difcharge at firft ; but the colour, quantity, and duration, differ in different women; in fome patients, the red colour difappears on the firft or fecond day; and in others, though rarely, it continues more or lefs to the end of the month; the evacuation in fome is very finall, in others exceffive; in one woman it ceafes very foon; in another, flows during the whole month; yet all of thefe patients fhall do well.

Some alleidge, that this difcharge from the utus is the fame with that from a wound of a large furface; but it is more reafonabie to fuppofe, that the change of colour and diminution of quantity proceed from the flow contraction of the veffels; becaufc, previous to pus, there mult have been lacerations or impoftumes; and in women who have fuddenly died after delivery, no wound or excoriation hath appeared upon the inner furface of the womb, which is fometimes found altogethet fmooth, and at other times rough and unequal on that part to which the placenta adhered,

The fpace that is occupied before delivery, from being fix inches in didmeter, or eighteen inches in circumference, will, foon after the birth, be contracted to one third or fourth of thefe dimenfions.

## S E C \%' VI.

## OFTHEMILK-FEVEス。

ABOUT the fourth day, the breafts generally begin to grow furgid and painful. We have formerly obferved, that during the time of uterine gettation the breafts in moft women gradually increafe till the delivery, growing fofter as they are enlarged by the veffels being more and more filled with fluids; and by this gradual ditenfion they are prepared for \{ecreting the milk from the blood after delivery. During the two or three firft days after parturition, efpecially when the woman has undergone a large difcharge, the breafts have been fometimes obferved to fubfide and grow flaccid; and about the third or fourth day, when the lochia begin to decreafe, the breafts fwell again to their furmer fize, and Itretch more and more, until the milk, being fecreted, is ether fucked by the child, or frequently of itfelf runs out at the nipples.

Moft of the complaints incident to women after delivery, proceed either Trom the obftruction of the lochia in the uterus, or of the milk in the breafts, occafioned by any thing that will produce a fever; fuch as catching cold. long and fevere labour, eating food that is hard of digeftion, and drinking fluids that quicken the circulation of the blood in the large veffels; by which means the fmaller, with all the fecretory and excretory ducts, are obttructed.

The difcharge of the lochia being fo different in women of different conftitutions, and befides in fome meafure depending upon the method of management and the way of life peculiar to the patient, we are not to judge of her fituation from the colour, quantity, and duration of them, but from the other fymptoms that attend the difcharge; and if the woman feems hearty, and in a fair way of recovery, nothing ought to be done with a view to augment or diminifh the evacuation. If the difcharge be greater than the can bear, it will be attended with all the fymptoms of inanition; but as the lochiar feldom flow fo violently as to deftroy the patient on a fudden, fhe may be fupported by a proper nourihing diet, affitt-ed with cordial and reftorative medicines. Let her, for example, ufe broths, jellies, and affes-milk; if the pulfe is languid and funk, the may take repeated dofes of the confec. cardiac. with mixtures compofed of the cordial waters and volatile fpirits. Subaftringents and opiates frequently adminiftered, with the cort. Peruv. in different forms, and auftere wines, are of great fervice. On the other hand, when the difcharge is too fmall, or hath ceafed altogether, the fymptoms are more dangerous, and require the contrary method of cure ; for now the bufinefs is to remove a too great plenitude of the veffels in and about the uterus, occafioning tenfion, pain, and labour, in the circulating fluids; from whence proceeds great heat in the part, refleffinefs, fever, a full hard quick pulfe, pains in the head and back, naufea, and difficulty in breathing. Thefe complaints, if not at firft prevented, or removed by reft and plentiful fweating, mult be treated wi:h venæfection and the antiphlogittic method.

When the obftruction is recent, let the patient lie quiet and encourage a copious diaphorefis,' by drinking plentifully of warm, weak, diluting Ruids, fuch as watcr-gruel, barley-water, tea, or weak chicken-broth;
the may likewife take opiates and fudorifics in different forms as may be agreeable to her ftomach．－Theriaca andron．from $3^{\text {fs }}$ to $3^{i}$ ．Laudd biquid．from gut．x．to gut．xx．Pilul．Saponac．from gr．v．to gr．x．or syr．de meconio．from 3 fs．to $\mathrm{z}_{\mathrm{i}} \mathrm{i}$ ．Thefe may be repeated occafionally， with other forms of opiates；and if they fail to procure reft and fweating， the following diaphorctics，without opium，sught to be adminiftcred：

Be Pulv．contraycrv．cann． 3 fs．Pulva caftor．Ruff．fal．fuccin，āāa gre，vo Syr．croci．q．f．f．Bolusfatiom funendus cum bauf．Sequent．et repetat． quarta vel fexta quaque bora ad tres wices，vel ut opus．fucrit．
 vol．c．c．gr．iv．m．

Should thefe methods be ufed without fuccefs，and the patient，far from being relieved by reft，plentiful fweating，or a fufficient difcharge of the obftructed lochia，labour under a hot dry fkin，anxiety，and a quick hard and full pulfe，the warm diaphoretics muft be laid afide；becaufe if they fail of having the defired effect，they mult neceffarily increafe the fever and obftruction，and recourfe be had to bleeding at the arm or ancle，to more or lefs quantity，according to the degree of fever and obftruction；and this cvacuation muft be repeated as there is occafon．When the obftruction is not total，it is fuppofed more proper to bleed at the ancle than at the arm ； and at this laft，when the difcharge is altogether ftopped．Her ordinary drink ought to be impregnated with nitre，and the following draughts，or others of the fame kind，preferibed：
 contrayerv．comp．Эi．Saccl．alb．q．「．f．banghesfation fumendus，et quarta vel fexta quaque bora repetendus．

If fhe is coftive，emollient and gently－opening clyfters may be occafion－ ally injected；and her breafts mult be fomented，and fucked either by the mouth or pipe－glaffes．If by thefe means the fever is abated，and the ne－ cefiary difcharges return，the patient commonly recovers；but if the com－ plaints continue，the antiphlogiftic method muft ftill be purfued．If not－ withftanding thefe efforts the fever is not diminifhed or removed by a plen－ tiful difcharge of the lochia from the uterus，the milk from the breafts，or by a critical evacuation by fweat，urine，or ftool，and the woman is every now and then attacked with cold fhiverings，an abfeefs or abfceffes will probably be formed in the uterus or neighbouring parts，or in the breafts and fometimes the matter will be tranflated to other fituations，and the feat of it foretold from the parts bcing affected with violent pains；thefe ab－ fceffes are more or lefs dangerous，according to the place in which they hap－ pen，the largenefs of the fuppuration，and the good or bad conititution of the patient．
If，when the pains in the epigaftric region are violent and the fever in－ creafcd to a very high degree，the patient fhould all on a fudden enjoy a ceffation from pain without any previous difcharge or critical cruption，the phyfician may pronounce that a mortification is begun ；efpecially if at the fame time the pulfe becornes low，quick，wavering，and intermitting；if the woman＇s countenance，from being florid，turns dufky and pale，while fhe horfelf and all the attendants conceive her much mended，in that cafe the will grow delirious，and die in a very fhort time．

What we have faid on this fubject，regards that fcyer which proceeds from the obifructed lochia，and in which the breafts may likewife be affect－ ed ；but the milk－fever is that in which the breafts are originally concerned， and which may hapgen though the lochia continue to flow in fufficient
quantity ; neverthelefs they mutually promote each other, and both are to be treated in the manner already explained; namely; by opiates, diluents; and diaphoretics in the beginning; and thefe prefcriptions failing, the obftructions mutt be refolved by the antiphlogitic method defcribed above: The milk-fever alone, when the uterus is not concerned, is not fo dangerous, and much more eafily relieved. Women of an healthy conftitution; who fuckle their own children, have good nipples, and whofe milk comes frecly, are feldon or never fubject to this diforder; which is more incident to thofe who do not give fuck, and neglect to prevent the fécretion in time; or, when the milk is fecreted, take no meafures for emptying their breatts: This fever likewife happens to women who try too foon to fuckle, and continue their effiorts too long at one time; by which means the nipples, and confequently the breafts, are often inflamed, fiwelled, and obftructed.

In order to prevent too great a turgefcency in the veffels of the breafts; and the fecretion of milk, in thofe women who do not choofe to fuckle; it will be proper to make external application of thofe things which; by their prellure and repercuffive force, will hinder the blood from flowing in too great quantity to this part, which is now more yielding than at any other time ; for this purpofe, let the breafts be covered with emp. de minio, diapalma, or $\mathrm{cmp} p$. $\mathrm{im} \mathrm{p}_{\mathrm{p}}$. fpread upon linen, or cloths dipped in camphorated fpirits, be frequently applied to thefe parts and the arm-pits ; while the patient's diet and drink are of the lighteft kind, and given in fmall quantities. Notwithftanding thefe precautions, a turgefcency commonly begins about the third day; but by reft, moderate fweating, and the ufe of thefe applications, the tenfion and pain will fubfide about the fifth or fixth day, efpecially if the milk runs out at the nipples; but if the woman catches cold, or is of a full habit of body, and not very abftemious; the tenfion and pain increafing, will bring on a cold fhivering; fucceeded by a fever, which may obftruct the other excretions, as well as thofe of the breaft

In this cafe, the fudorifics above recommended muft be prefcribed ; and if a plentiful fweat enfues, the patient will be relieved; at the fame time the milk muft be extracted from her breafts by fucking with the mouth or glaffes. Should thefe methods fail, and the fever increafes fheought to be bled in the arm 3 and, inttead of the external applications hitherto ufed, emollient liniments and cataplafms muft be fubitituted, in order to foften and relax. If in fpite of thefe endeavours the fever proceeds for fome days, the patient is frequently relieved by critical fiveats; a large difelarge from the uterus, miliary eruptions, or loofe ftools mixed with milk, which is curdled in the inteltines. But fhould none of thefe evacuations happen, and the inflammation continue with increafing violence, there is danger of an impoftume, which is to be brought to maturity, and managed like other inflammatory tumours; and no aftringents ought to be applicd, left they fhould produce fcirrhous fiwellings in the glands.

As the crifis of this fever, as well as of that laft defcribed, ofter con. fifts in miliary eruptions over the whole furface of the body, but particularly on the neck and breafts, by which the fever is carried off, nothing ought to be given which will either greatly increafe or diminifh the circulating force, but fuch only as will keep out the eruptions. But if, notwithitanding thefe eruptions, the fever, inftead of abating, is augmented, it will be neceffary to diminifh its force, and prevent its increafe by thofe cvacuations we have mentioned above. On the contraty, fhould the pulfe fink, the eruptions legin to retreat inwardly, and the morbific matter be in danger of falling upon the vifcera, we muft endea-
vour to keep them out, by fuch opiates and fudorific medicines as we have already prefcribed in obftructions of the lochia ; and here blifters may be applied with fuccefs. On this fubject Sir David Hamilton and Hoffman may be confulted.

## $S \quad E \quad C \quad$ T. VII.

OF THE PROLAPSUS VAGINA, RECTI, ET UTERI.

WHEN the head of the child is long retained about the middle of the vagina, the lower part of that fheath fometimes fwells; and as the head comes farther down, is pufhed out at the os externum, occafroning great difficulty in delivering the woman: fometimes alfo the lower part of the rectum is protruded through the fphincter ani, efpecially if the patient is troubled with the inward piles. The cure of both thefe complaints confifts in reducing the prolapfus: if this cannot be done immediately in the laft, on account of the fwclling of the protruded part, emollient fomentations and pultices muft be ufed in order to remove the inflammation. Wher it is reduced, the woman muft be confined more than ufual to her bed; and if the part falls down again in confequence of her ftraining at ftool or ins making water, it muft be reduced oceafionally, and as the recovers ftrength the complaint will in all probability vanifh; otherwife aftringent fumigations or fomentations mult be ufed. If the diforder be of long duration, peffaries, adapted to the part, whether vagina or reftum, muft be applied.

A prolapfus uteri may happen from the fame caufes, or from any thing that will too much relax the ligament and peritonæum, by which the womb is fufpended ; fuch as an invcterate fluor albus, that, by its long continuance and great difcharge, weakens the womb and all the parts.

This misfortunc, when it proceeds from labour, does not appear till after delivery, when the uterus is contracted to its fmallef fize ; nay, not for feveral weeks or months after that period, until by its weight the os externum is gradually ftretehed wider and wider, fo as to allow the womb to hipthrough it; and in this cafe it defcends covered with the vagina, that comes down along with it, and hangs between the thighs; though the os tincx only can be perceived on account of this covering, the fhape and fubitance of the uterus may be eafily diftinguifhed.

As this prolapfus comes on gradually, the woman of herfelf can (for the moft parti reduce and keep it up while in bed; but when the rifes and walks, it will fall down again. When the complaint is not of long ftanding, and the womb does not come altogether through the os externum, the patient may be cured by aftringent injections; and in the next pregnancy, when the upper part of the uterus is diftended fo as to fill the pelvis and rife above its brim, the os internum will be raifed higher in the vagina; and after delivery, if the woman is confined to her bed for twenty or thirty days, the ligaments generally contract fo as to keep up the womb and prevent any future prolapfus. But when the complaint is of long continuance; when the uterus and vagina defcend quite through the os externum, and by the friction in walking, oceafioned by the vagina rubbing againtt the thighs and the os utcri upon the cloths that are ufed for fupporting it, an ipflammation, excoriation, and ulceration, are produced, inviting a greater flux of fluids to the part; thefe fymptoms, joined with a fluor albus from the infide of the uterus, deftroy the hope of a fecond impregnation, or cure
by injections; and we can only promife to palliate the difeafe, by reducing the uterus and keeping it up with a peffiry; by which means, ufed for a length of time, the parts will recover their tone, and the difeafe be radically cured.

If the uterus be fo much inflamed, that it cannot be reduced, generally evacuations muft be prefcribed, and fomentations and pultices applied in order to diminifh its bulk, fo as that it may be replaced. For this complaint, different kinds of peffaries have been ufed ; fome of a globular form ; others that open with il fpring, as defcribed in the Medical Effays of Edinburgh ; but thofe moft in ufe are of a flat form, with a little hole in the middle, and made of cork waxed over, ivory, box, ebony, lignumvitx, of a triangular, quadrangular, oval, or circular fhape. Thofe that are circular feem beft to anfwer the intention, becaufe we can more eafily introduce a large one of that than of any other figure; it lies more commodiounly in the vagina; and, as it always tilts a little upward and downward, never hinders the paflage of the urine or fæces; thefe inftruments, however, ought to be larger or fmaller, according to the laxity or rigidity of the os externum.

There is a peffary lately invented at Paris, which hath an advantage over all others; becaufe the woman can introduce it in the morning, and take it out at night; it is fupported and kept in the vagina by a fmall falk, the lower end of which forms a little ball that moves in a focket; this focket is furnifhed with ftraps, which are tied to a belt that furrounds the patient's body. This peffary is extremely well calculated for thofe who are in an eafy way of life; but the other kind is beft adapted to hard-working women, who have not time or conveniency to fix or mend the bandage when it wants repair.

## S E C T. VIII.

## of the evacuations necessary at the end of the month AFTER DELIVERY.

THOSE who have had a fufficient difcharge of the lochia, plenty of milk, and fuckle their own children, commonly recover with eafe; and, as the fuperfluous fluids of the body are drained off at the nipples, feldom require evacuations at the end of the month: but, if there are any complaints from fulnefs, fuch as pains and flitches, after the twentieth day, fome blood ought to be taken from the arm, and the belly gently opened by frequent clyfters, or repeated dofes of laxative medicines.

If the patient has tolerably recovered, the milk having been at firf fucked or difcharged from the nipples, and afterwards difcuffed, no evacuations are neceffary before the third or fourth week; and fometimes not till after the firlt flowing of the menfes, which commonly happens about the fifth week; if they do not appear within that time, gentle evacuations muft be prefcribed, to carry off the plethora and bring down the catamenia.

## C H A P. 'II.

Of the management of new-born children, with the difeafes to which they are fubject.

## $S$ E C T. I.

OF WASHING AND DRESSING THE CHILD:

TH E child being delivered, the navel-ftring tied and cut, a warm cloth or flannel cap put on its head, and its body wrapped in a warm receiver, it may be given to the nurfe or an affiftant, in order to be wafhed clean from that fcurf which fometimes covers the whole fcarf-fkin, and is particularly found upon the hairy fcalp, under the arm-pits, and in the groins. This ablution is commonly performed with warm water, mixed with a finall quantity of Hungary water, wine, or ale, in which a little pomatum or freth butter hath been diffolved. This compofition cleans all the furface, and the oily part, by mixing with and attenuating the mucus, prepares it for the linen cloth, which dries and wipes off the whole ; neverthelefs milk and water, or fope and water, are preferable to this mixture.

In laborious or preternatural cafes, when confiderable force hath been ufed in delivering the child, the whole body ought to be examined, and if there is any mark or contufion on the head, it will difappear if anointed with pomatum, and gently rubbed or chafed with the accoucheur's hand ; if any limb is diflocated or bruken, it ought to be reduced immediately luxations, though they feldom happen, are more incident fto the fhoulder than to any other part, the humerus being eafily diflocated, and as eafily reduced. The bones of the arm and thigh are more fubject to fracture, than any other of the extremities; the firft is eafily cured, becaufe the arm can be kept from being moved; but a fracture in the thigh-bone is a much more troublefome cafe, becaufe, over and above the difficulty of keeping the bones in a proper fituation, the part is often neceffarily moved in cleaning the child. In this cafe, the belt method is to keep the child lying on one fide, after the thigh hath heen fecured by proper bandage, fo that the nurfe may change the cloth without moving the part; and to lay it upon bolfters or pillows raifed above the wet-nurfe, that it may fuck with greater freedom; if any of the bones are bent, they may be brought into their proper form by a flow, gentle, and proper extenfion.

The navel-ftring muft be wrapped in a foft linen rag, and folded up on the belly, over which is to be laid a thick comprefs, kept moderately tight with a bandage commonly called a bclly-band. This compreffion mult be continued for fome time, in order to prevent an exomphalus, or rupture at the navel ; and kept tighter and longer on children that are addicted to crying, than on thofe that are ftill and quiet; yet not fo tight as to be uneafy to the child, and the bandage mult be loofened and the part examined every fecond day. The navel-ltring fhrinks, dies, and about the fixth or feventh day commonly drops off from the belly; though not at the ligature, as fome pcople have imagined. This being feparatcd, a pledgct of dry lint muft be applied to the navel, and over it the thick comprefs and bandage, to be continued feveral weeks, for the purpofe mentioned above.

During

During the time of wafhing and dreffing the child, it ought to be kept moderately warm, efpecially in the head and breaff, that the cold air may not obftruct perfpiration; the head and body ought alfo to be kept tolerably tight with the clothes, for the convenience of handling, and to prevent its catching cold, efpecially if the child be weakly; but if it be vigorous and full grown, it cannot be too loofely clothed, becaufe the brain, thorax, and abdomen, fuffer by too great compreffion. The clotheing of new-born children ought alfo to be fuitable to the feafon of the year and the nature of the weather; the extremes of cold and heat being avoided, as equally hurtful and dangerons. Intead of the many fuperfluous inventions of nurfes, and thofe who make clothes for children, with a view to make an expenfive and pompous appearance, the drefs ought to be contrived with all imaginable fimplicity; the child being wafhed, the navelfring fecured, and the head covered with a linen or woollen cap, as already directed, a fhirt and waiftcoat may be put upon the body, and over it a flannel Ri irt or petticoat open before, with a broad head-band, as commonly ufed, or rather a wailtcoat joined to it, fo as that they can be put on at once; this ought to be rather tied than pinned before; and, inftead of two or more blankets, may be covered with a flannel or fuftian gown; while the head is accommodated with another cap, adorned with as much finery as the tire-woman thall think proper to beftow.

In fhort, the principal aim of this point is, to keep the child's head and body neither too tight nor too flovenly, too hot nor too cold; that it may be warm, though not overheated; and eafy, though not too loofe; that refpiration may be full and large, that the brain may fuffer no compreffion, and that, while the child is awake, the legs may be at liberty; to reject all unneceffary rollers, crofs-cloths, neck-cloths, and blankets, and to ufe as few pins as poffible, andthofe that are abfolutely neceffary with the utmoft caution.

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WHEN the child cannot make water, becaufe the paffage is filled up with mucus; after having unfuccefsfully practifed the common methods of holding the belly near the fire, and rubbing the parts with ol. rutce, \&c. we muft introduce a probe, or very fmall catheter, along the urethra into the bladder; an operation much more eafily performed in female than in male children.

In boys, the prepuce alone is fometimes impcrforated; in which cafe an opening is eafily made. But if there is no paffage in the urethra, or even through the whole length of the glans, all that can be done is to make an opening with a lancet or biftory, near the mouth or fphincter of the bladder, in the lower part of the urethra, where the urine bcing obftructed, puthes out the parts in form of a tumour; or, if no fuch tumefaction appears, to perforate the bladder above the pubes with a trochar; this, however, is a wretchod and ineffectual expedient, and the other can but at beft lengthen out a mifcrable life. If the anus is impcrforated, and the fæces protrude the parts; or if it be covered with a thin membrane, and a bluifh or livid fpot appears, the puncture and incifion commonly fuccced. But when the rectum is altogether wanting, or impervious for a confiderable way, the fuccefs of the operation is very uncertain; neverthelefs it ought to be tried, by making an artificial anus with a biftory, remembering the courfe of the rectum, and the entry in both fexcs. For farther information on this
frbject, Mauriccan's and Saviard's Obfervations, and the Memoirs of the Academy of Surgeons, may be confulted.

In female children there is a thin membrane, in form of a crefcent, called the hymen, that covers the lower part of the orifice of the vagina, and is rent in the firft coition. The middle of it is fometimes attached to the lower part of the meatus urinarius, and on cach fide of the bridge is a fmall opening that will only admit the end of a probe, though it is fufficient for the difcharge of the menfes. This obftruction is commonly unknown till marriage, and hath often proved fatal to the unfortunate woman, who had concealed it through excefs of modefy, and afterwards funk into a deep melancholy which coft her her life, rather than fubmit to infpection, and the eafy cure of having the attachment fnipped with a pair of fciffars. On this confideration, Saviard advifes all accoucheurs to infpect this part in cvery fcmale child they deliver; and if there fhould be fuch a defect, to remedy it during her childhood; or, if the entry is wholly covered with the menbrane, let a fufficient perforation be made, which will prevent great pain and tenfion in their riper years, when the menfes, being denied paffage, would accumulate every month, and at laft puin out this and the neighbouring parts, in form of a large tumour, the caufe of which is generally unknown until it be opened.

Sometimes a thin membrane, rifing from the under part of the mouth, flretches almoft to the tip of the tongue, bracing it down, fo as to hinder the child from taking hold of the nipple and fucking. This diforder, which is called tongue-tying, is eafily remedied by introducing the forefinger into the child's mouth, raifing up the tongue, and fnipping the bridle with a pair of fciffars.

If, inftead of a thin membrane, the tongus is confined by a thick flefhy fubftance, the fafeft method is to direct the nurfe to ftretch it frequently and gently with her finger; or if it appears like a foft fungus, to touch it frequently but very cautioully with lunar cauftic or $r_{\text {a }}$ Roman vitriol ; but we ought to take care that we are not deceived by an inflammation that fometinues lappens in the birth, from the accoucheur's helping the head along with his finger in the child's mouth.

## $S \quad E \quad C \quad T . \quad I I$.

OF, MOULD-SHOT HEADS, CONTUSIONS, AND EXCORIATIONS. IN laborious and lingering labours, the child's head is often long confined, and fo compreffed in the pelvis, that the bones of the upper part of the cranium are fqueezed together, and ride over one another in different manners, according as the head prefented. If the offa parietalia rife over the os frontis, the cafe is called the mould:bot:; if over the acciput, it goes by the name of the borfe-floe mould. When the fontanel prefents (though this is feldom the cafe) and is pufhed down, the form of the head is raifed up in the fhape of an hog's back; whereas, in the former cafe, the vertex; or crown of the head prefented, and the whole was turned from a round to a very long figure. If the head is kcpt long in the pelvis, and the child not deftroyed by the compreffion of the brain, either before or fon after delivery, it commonly retains more or lefs of the fhape acquired in that fituation, according to the ftrength or weaknefs of the child. When the bones begin to ride over one another in this manner, the hairy fcalp is felt lax and wrinkled; but, by the long prefiure and obftructions of the circulating fluids, it gradually fwells and forms a large tumour.

In thefe cafes, when the child is delivered, we ought to allow the navelfring, at cutting, to bleed from one to two or three fpoonfuls, efpecially if the infant be vigorous and full grown ; and to provoke it by whipping and Atimulating ; for the more it crics, the fooner and better are the bones of the cranium forced outwards into their natural fituation; or, if the head hath not been long compreffed, and is not much inflamed, we can fometimes with our hands reduce it into its priftine fhape. The meconium ought alfo to be parged off as foon as polfible, to give freer fcope to the circulating fluids in the abdomen, and make a revulfion from the furcharged and compreffed brain. This may be effected, with fuppofitories, clyfters, repeated dofes of ol. amygrlal. d. mixed with pulv. rbabarb. or de althrea, or fyr. de cicboreo, cum rbeo.
If the child is feized with convulfons foon after delivery, in confequence of this compreffion, and the veffels of the navel-ftring have not been allowed to bleed, the jugular vein ought immediately to be opened, and from one to two ounces of blood taken away ; an operation eafily performed in young children : the urine and meconium muft be difcharged, and a fmall blifter applied between the fcapulx. When the fcalp is bruifed, inflamed, or fivelled, let it be anointed or embrocated with a mixture of ol. camomel. acet. and $\int p t$. win. camphorat. and cerates and pultices applied to the parts.

If the tumefaction is large, and we feel a confiderable fluctuation of extravafuted fluids, which cannot be taken up by the abforbent veflels, affifted with thofe applications, the tumour mult be opened; though generally there is no occafion for a large incifion, becaufe, after the fluid is once difcharged, the hollow fcalp, by gentle preffure, is more eafily joined in children than in older fubjects.

When the head is misfhapen, it fhould not be bound or preffed, but left lax and eafy; left, the brain being comprefled, convulfions fhould enfue.

The body of the child is fometimes covered all over with little red fpots, called the red-gum, and commonly proceeding from the coftivenefs of the child, when the meconium hath not been fufficiently purged off at firf. And here it will not be improper to obferve, that as the whole traft of the colon is filled with this vifcid excrement, which hath been graduaily accumulated for a confiderable time; and as the fmall inteftines, ftomach, and gullet, are lined with a glary fluid or mucus, the child ought to take no other nourifhment than pap as thin as whey, to dilute this fluid; for the firf two days; or indeed, till it fucks the mother's milk, which begins to be fecreted about the third day, and is at firt fufficiently purgative to difcharge thefe humours, and better adapted for the purpofe than any artificial purge.
If the mother's milk cannot be had, a nurfe lately delivered is to be found ; and if the purgative quality of her milk is decreafed, fhe muft be ordered to take repeated fmall dofes of manna or lenitive electuary, by which it will recorcr its former virtue, and the child be fufficiently purged.

If the child is brought up by hand, the food ought to imitate as near as pofible the mother's milk ; let it couffit of loaf-bread and water boiled up together, in form of panada, and mixed with the fame quantity of new cow's milk ; and fometimes with the broth of fowl or mutton. When the child is coftive, two drachms of mana, or fron two to four grains of rhubarb, may be given; and when the ftools are green and curded, it with
be proper to abforb the prevailing acid with the tcfaceous powders, fuch as the chel. cancror. fimps, or tcf. oftrear, given from the quantity of ter grains to a fcruple; and for this purpofe the magnefia alba is rccommended, from one to two drachms a day, as being both opening and ahforbent. The red-gum may likewife proceed from the officioufncfs of the nurfe, by which the fcarf-fkin hath been abraded or rubbed off; in which eafe the child muft be bathed in warm milk, and the parts foftened with pomatum 3 the fame bath may be alfo ufed daily in the other kind, and the belly kept open with the 'fore-mentioned medicines; with which fome fyrup, tincture, or powder of rhubarb, may be mixed, or given by itfelf, if the ftools are of a grecnifh hue.

Excoriations behind the ears, in the neck, and groin of the child, are fometimes indeed unavoidable in fat and grofs habits; but moft commonly proceed from the careleffnefs of the nurfe, who neglects to wafh and keep the parts clean; they are, however, eafily dried up and healed, with unguent. alb. pulv. eceruffa, or fullers-earth. Yet we ought to be cautious in applying drying medicines behind the ears, becaufe a difcharge in, that part frequently prevents worfe difeafes.

## $S$ E C T. IV.

## OF THE APHTHA.

THE aphtha, or thrufh, is a difeafe to which new-born children are frequently fubject, and is often dangerous when neglected at the beginning. This difeafe proceeds frons waaknefs and laxity of the contracting foree of the ftomach and inteftines, by which the acefcent food is not digefted ; and froma defect in the neceflary fecretion of bile, with which it ought to be mixed. This prevailing acid in the primx vix produces gripings and loofe green ftools, that weaken the child more and more, deprive it of proper nourifhment and reft, and occafion a fever from inanition and irritation. The fmalleft veffels at the mouths of the excretory ducts in the mouth, gullet, ftomach, and inteltines, are obftructed and ulcerated in confequence of the child's weaknefs, and acrimonious vomitings, belchings, and ftools, and little foul ulcers are formed.

Thefe firft appear in fmall white fpecks on the lips, mouth, tongue, and at the fundament : they gradually increafe in thicknefs and extent; adopt a yellow colour, which in the progrefs of the diftemper becomes dufkifh, and the watery fools (called the cuatery gripes) become more frequent. The whole inner furface of the inteftines being thus ulcerated and obitructed, no nourithment enters the lacteal veffels; fo that the weaknefs and difeafe are increafed, the milk and pap which are taken in at the mouth paffes off curdled and green, the child is more and more enfeebled, and the brown colour of the aphtha declares a mortification and death at hand. Sometimes, however, the aphthr arc unattended by the watery fools; and fometimes thefe laft are unaccompanied with the aphtha.

In order to prevent this fatal cataftrophe, at the firt appearance of the diforder we ought to prefcribe repeated dofes of teftaceous powders to abforb and fweeten the predominant acid in the łomach, giving them from ten to twenty grains in the pap, twicc or three times a day"; and on every third night from three to five grains of the palw. rbei. julop. © Creta; oily and anodyne clyfters, with cpithems to the fomach, may alfo be adminittered. When thefe and every otler prefeription fail, the child, if not much weakened,
is fometimes cured by a gentle vomit, confifting of puldi: ipecacuani: gr. 1. given in a fpoionful of barley-water, and repeated two or three times ar the interval of half an hour between each. When the child is much enfecbled; the oleo-faccharum cinnamomi or anifi, mixed with the pap, is fometimes ferviceable. If the milk is either too purgative or binding, the nurfe fhould be changed, of take proper medicines to alter its quality; or, if the child has been brought up by hand; women's milk may be given on this oceafion, together with weak broths; but if the child cannot fuck; the milk of cows, mares; or affes, may be fabftituted in their room; diluted with barley-water.

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& \text { OFTEETHING: }
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CHILDREN commonly begin to breed their fore-teeth about the feventh; and fometimes not before the ninith month ; nay, in fome the period is ftill later. Thofe who ate healthy and lax in their bellies, undergo dentition eafier than fuch as are of a contrary conftitution: When the teeth thoot from their fockets, and their thatr points begin to work their way through the periofteum and gums, they frequently. produce great pain and inflammation, which, if they continue violent, bring on feverih fymptoms arid convulfions, that often prove fatal. In order to prevent thefe misforsunes, the fwelled gum may at firft be cut down to the tooth with a biftoty or flean; by which means the patient is often relieved inmediately; but if the child is Atrong; the pulfequick; the fkin hot and dry; bleeding at the jugular will alfo be neceflary; and the belly muft be kept open with repeated clyfters. On the other hand, if the child is low; funk; and emaciated, repeated dofes of fpt. c. c. tinct: fuligin. and the like, may be preferibed; and blifters applied to the back, or behind the ears:

## C H A P: III.

Of the requifile qualifications of accouchëurs, midwives, nur fes who attend lying-in women, and wet and dry nurfes for children.

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## OF THE ACCOUCHEUR

THOSE who intend to practife midwifery oüght firt of all to make themfelves mafters of anatomy, and acquire a competent knowledge in furgery and phyfic, bécaufe of their connection with the obftetric art, if not always, at leaft in many cafes. He ought to take the belt opportunities he can find of being well inftruefed ; and of practifing under a mafter; before he attempts to deliver by himfelf.
In order to acquire a more perfect idea of the art, he ought to perform with his own hands upon proper nachines, contrived to conivey a juft notion of all the difficulties to be met with in every kind of labour; by which means he-will learn how to ufe the forceps and crotchets with more dexterity, be accuftomed to the turning of children, and confequently be more. capable of acquitting himfelf in troublefome cafes that may happen to
him when he comes to practife among women; he flould alfo embrace every oceafion of being prefent at real labours; and indeed of acquiring every qualification that may be neceflary or convenient for him in the future exereife of his profefion. But, over and above the advantages of education, he ought to be endowed with a natural fagacity, refolution, and prudence ; together with that humanity which adorns the owner, and never fails of being agreeable to the diftreffed patient; in confequence of this virtue, he will aflift the poor as well as the rieh, behaving always with charity and compafion. He ought to act and feak with the utmoft delicacy of decorum, and never violate the truft repofed in him, fo as to harbour the leaft immoral or indecent defign; but demean himfelf in all refpects fuitably to the dignity of his profeffion.

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## OF I HE MIDWIFE.

A MIDWIFE, though the ran hardly be fuppofed miftrefs of all thefe qualifieations, ought to be a decent fenfible woman, of a middle age, able to bear fatigue; fhe ought to be perfectly well inftructed with regard to the bones of the pelvis, with all the contained parts, comprehending thofe that are fubfervient to generation; fhe ought to be well ikilled in the method of touching pregnant women, and know in what manner the womb ftretches, together with the fituation of all the abdominal vifeera; fhe ought to be perfectly miftrefs of the art of examination in time of labour, together with all the different kinds of labour, whether natural or preternatural, and the methods of delivering the placenta; the ought to live in friendthip with other women of the fame profeffion, contending with them in nothing but in knowledge, fobiriety, diligence, and patience; fhe ought to avoid all reflections upon men-practitioners; and when fhe finds herfelf at a lofs, candidly have recourfe to their affitance. On the other hand, this confidence ought to be encouraged by the man, who, when called, inftead of openly condemning her method of practice (even though it fhould beerroneous) ought to make allowance for the weaknefs of the fex, and rectify what is anifs, without expofing her miftakes. This conduct will as effectually conduce to the welfare of the patient, and operate as a filent rebuke upon the conviction of the midwife, who finding herfelf fo tenderly treated will be more apt to call for neceffary affiftanee on future oceafions, and to confider the accoucheur as a man of honour and a real friend. Thefe genthe methods will prevent that mutual calumny and abufe which too often prevail among the male and female practitioners, and redound to the advantage of both; for no accoucheur is fo perfect, but that he maj err fometimes; and on fuch oceafions he muft expect to meet with retaliation from midwires whom he may have roughly ufed.

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## OF NURSES IN GENERAL

NURSES, as well as midwives, ought to be of a middle age, fuber, patient, and difercet, able to bear fatigue and watching, iree from external defornity, cutaneous eruptions, and inward complaints, that may be troublefome or infectious.

## $\begin{array}{lllll}N & U & M & B . & I .\end{array}$

NURSES that attend lying-in women ought to lave provided, and in order, evcry thing that may be neceffary for the woman, accoucheur, midwife, and child ; fuch as linen and cloths, well aired and warm, for the woman and the bed, which the mult know how to prepare when there is occafion; together with nutmeg, fugar, fpirit of harthorn, vinegar, Hungary-water, white or brown caudle ready made, and a clyfter-pipe fitted. For the ufe of the accoucheur, fhe muft hang a doubled iheet over the bed-fide, and prepare warm cloths, pomatum, thread, warm and cold water, and two hand-bafons; and for dreffing the child, fhe mult keep the clothes warm, and in good order. After delivery, her bufinefs is to attend the mother and child with the utmoft care, and follow the directions given to her relating to the management of each.
That the mother herfelf fhould give fuck, would certainly be moft conducive to her own recovery, as well as to the health of the child; but when shis is inconvenient, or impracticable, from her weaknefs or circumftances in life, a wet-nurfe ought to be hired, poffeffed of the qualifications above defcribed, as well as of thofe that follow.

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THE younger the milk is, the better will it agree with the age of the infant. The nurfe is more valuable after having brought forth her fecond shild than after her firft; becaufe fhe is endued with more knowledge and experience touching the managenent of children. She ought to have good nipples, with a fufficient quantity of good milk: the abundance or fcantinefs of the fecretion may be diftinguifhed by the appearance of her own child; and the quality may be afcertained by examining the milk, which fhe may be ordered to pour into a wine glafs, about two or three hours after fhe hath eaten and drank, and fuckled her own child. If, when falling in a fingle drop upon the nail, it runs off immediately, the milk is too thin; if the drop Itand $\varepsilon$ in a round globe, it is too thick; but when the drop remains in a flattened form, the milk is judged to be of a right confitence; in a word, it may be as wcll diftinguithed by its opacity or tranfparency, when it is dafthed upon the fide of the glafs; befides, it ought to be fweet to the tafte, and in colour inclining to blue rather than to yellow. Red-hairee women, or fuch as are very fair and delicate, are commonly objected to in the quality of nurfes; but this maxim is not without exceptions ; and on this fubject Boerhaave's Infti*utes, with Haller's Commentary, may be confulted.

Aithough it is certainly moft natural for children to fuck, it may be fometimes neceffary to bring them up by hand ; that is, nourifh them with pap ; becaufe proper wet-nirfes cannot always be found, and many children have fuffered by fucking difeafed women. Some never can be brought to fuck, although they have no apparent hindrance ; and others are prevented by fome fwclling or diforder about the mouth or throat.

## $N \quad U \quad M \quad$ B. III.

UPON fuch occafions, we mult choofe an elderly woman properly qualificd for the tark, and well accuftomed to the duties of a dry-nurfe. The food (as we have former! y obfersed) ought to be light and fimple, in
quality refembling as nearly as poffible the mother's milk, fuch as thin panada, mixed with cow's milk and fiveetened with fugar; or, fhould the child be coftive, inftead of fugar, honey or manna may be ufed. If there is any reafon to believe that the loaf-hread or bifcuit is made of flour which hath been mixed with alum for the fake of the colour, the common panada ought in this cafe to be laid afide, in favour of thick watergruel, mixed with milk; and fweetened as above.

Some children thrive very well on this diet; but when it is neither agreeable to their palates nor nouriming, a wet-nurfe muft be procured, before the child is too much emaciated and exhaufted; and if it can fuck, the good effects of the milk will foon be manifeft. But, for farther information on this head, they seader may confult Dr. Cadogan's Letter on Nurfing of Children.



# EXPLANATIONS TO PLATES 

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## ANATOMICALTABLES;

WITH AN ABRIDGMENT OFTHE

PRACTICEOF MIDWIFERY,

INTENDED TO IL\&USTRATE

THETREATISEANDCASES.

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REPRESENTS, in a front view, the bones of a well-formed pelvis. $A$. The five vertebra of the loins.- $B$. The os facrum. $-C$. The os coccygis. - $D$. The offa ilium. - $E$. The offa ifchium. - $F$. The offa pubis,-G. The foramina magna.-H. The acetabula.-I. The brim of the pelvis, or that circumference of its cavity which is deferibed at the fides by the inferior parts of the offa ilium, and at the back and fore parts by the fuperior parts of the offa pubis and facrum.

In this table, befides the general ftructure and figure of the feveral bones, the dimenfions of the brim of the pelvis, and the diftance between the under parts of the ofia ifchium, are particularly to be attended to ; from which it will appear, that the cavity of the brim is commonly wider from fide to fide, than from the back to the fore part, but that the fides below are in the contrary proportion. The reader, however, ought not from this to conclude, that every pelvis is fimilar in figure and dimenfions, fince even well-formed ones differ in fome degree from each other. In gencral, the brim of the pelvis meafures about five inches and a quarter from fide to fide, and four inches and a quarter from the back to the fore part; there being likewife the fame diftance between the inferior parts of the offa ifchium. All thefe meafures, however, mult be undertood as taken from the fkeleton; for in the fubject, the cavity of the pelvis is confiderably diminifhed by its teguments and contents. Correfondent alfo to this diminution, the ufual dimenfions of the head of the full-grown foetus are but thee inches and a half from ear to ear, and four inches and a quarter from the fore to the hind head.

Vide tab. xvi. xvii. xviii. Alfo part i. chap. i. feet. i. ii. iii. where the dimenfions of the pelvis, as well as of the head of the fotus, and the manner in which the fame is protruded in labour through the bafon, are fuily treated of. Confult likewife part ii. coll. i. numb. i. ii. where cafes are given of complaints of the pelvis arifing from difficult labours.

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GIVES a lateral and internal view of the pelvis, the fame being divided longitudinally. $A$. The threc lower vertebre of the loins. 3. The os facrum. - C. The os coccjris.-1). The left os iliom. - E. The
left os ifchium. $-F$. The os pubes of the fame fide. $-G$. The acute procefs of the os ifchium.-H. The foramen magnum.- $I$. The brim of the pelvis.

This plate fhews the diftance from the fuperior part of the os \{acrum to the offa pubis, as well as from the laft-mentioned bones to the coccyx, which in each anounts to about four inches and a quarter. The depth is rikewife fhewn of the pofterior, lateral, and anterior parts of the pelvis, not in the line of the body, but in that of the pelvis from its brim downward, which is three times deeper on the poferior than anterior part, and twice the depth of the laft at the fides.

From this view appears alfo the angle which is formed by the laft vertebra of the loins and the fuperior part of the os facrum, as likewife the concavity or tollow fpace in the pofterior internal part of the pelvis, arifing from the pofterior curvatuse of the laft-mentioned bone and cocsyx; finaily, the diftance from which to the poiterior parts of the offa ifchium - is here expreffed.
$V$ icte tab. xvi. xvii. xviii, xix, Alfo part $i$, and ij. as referred to in the former table.

## $\begin{array}{lllllll}T & A & B & L & E & I I I .\end{array}$

EXHIBITS a front view of a diftorted pelvis. - A. The five vertebre of the loins. - $B$. The os facrum. - $C$. The os coccygis. $-D$. The offa ilfum- $E$. The offa ifchium, $-F$. The offa pubis.- $G$. The foramina magna.- $H$. The acetabula.

From this plate may appear the great danger incident to both mother and child when the pelvis is diftorted in this manner; it teing only two inches and an half at the brim from the pofterior to the anterior part, and the fame diftance between the inferior paris of each os ifchim. Vide tab, xxyii. where the pelvis is one quarter of an inch marrower at the brim than this, but fufficiently wide below. Various ạe the forms of diftorted bafons, but the laft-mentioned is the moft common. It is a great happinefs, however, in practice, that they are feldom fo narrow, though there are inflances where they have been much more fo. The dinger in all fuch cafes muft increafe or diminifh according to the degree of diftortion and fize of the child's' head.
$V_{i d e}$ part i. book i. chap. i. fect. iv. $r$, and part ii. collect. i. numb. iii. iv. v. Alfo colle؟. xxj. xxvii. and xxix.

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T A B C L E \quad I V
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S HE W S the extemal female parts of generation.- $A$. The lower part of the abdomen.- $B$. The labia pudendi feparated.-C. 'The clitoris and preputium. $-D$. The nymphx.- $E$. The foffa magna, or os exter-num.-F. The meatus urinarius.- $G$. The frenum labiorum. - $H$. The perinxum.-1. The anus.-K. The part that covers the extremities of the coccyx.-L. The parts that cover the tuberofities of the offa ifchium.

As it is of great confequence to every practitioner in midwifery to know cxactly the fituation of the parts concerned in parturition, and which have not been accurately defcribed by former anatomifts with a view to this particularly branch, I have given this draught from one of the preferved fubjects which I keep by me, in order to demontrate thefe pats in the ordi-
.
nttachment of the vagina round the outfide of the lips of the mouth of the womb is here likewife fhewn, as alfo the fituation of the uterus, as it is preffed downward and backward by the, inteftines and urinary bladder into the concave and inferior part of the bs facrum:-O. The ligamenta lata and rotunda of the left fide.- $P$. The Fallopian tube, with the fimbrix.2. The ovarium of the fame fidet $-R$ : The fuperior part of the rectum and inferior part of the colon.

Fig. 3. gives a front view of the uterus in the beginning of the firft month of pregnancy; the anterior part being removed, that the embryo might appear through the amnios, the chorion being diffected off:- $A$. The fundus uteri._B. The collum uteri, with a view of the rugous canal that leads to the cavity of the fundus.——C. The os uteri.

Vide part i. book i. chap. it. fect. ii. iii. Part ii. collect. iii.

## T $A B L E$ VI: Fig 1.

INN the fame view and fection of the parts as in the firt figure bf the former table, fhews the uterus as it appears in the fecond or third month of pregnancy, its anterior part being here likewife removed.-F. The anus.-G. The vagina, with its plicx.-H. The pofterior and inferior part of the urinary bladder extended on each fide, the anterior and fuperior part being removed.-I The mouth and neck of the womb, as saifed up when examining the fame by the touch, with one of the fingers in the vagina. - $K$. The uterus as ftretched in the fecond or third month; containing the cmbryo, with the placenta adhering to thc fundus.

It appears from this and the former table, that at this time nothing can be known, with refpect to pregnancy, from the touch in the vagina, as the refiftance of the uterus is fo inconfiderable that it cannot prevent its being raifcd up before the finger; and even were it kept down, the length of the neck would prevent the ftretching being perceptible. The uterus likewife not being ftretched above the pelvis, little change is made as to the figure of the abdomen, farther than that the inteftines are raifed a little higher; whence poffibly the old obfervation of the abdomen being a little flatter at this period than ufual, from the inteltines being preffed more to each fide. Women at this period mifcarry oftener than at any other. It is a great happinefs, however, in practice, that although they are frequently mucla weakened by large diicharges, yet they rarely fink under the fame, but are fooner or later relicved by labour coming on, which gradually ftretches the neck and mouth of the wumb, by the membranes being forced down with the waters; and if the placenta is feparated from the internal furface of the uterus, all its contents are difcharged; but if the placenta fill adheres, the membranes break, the waters and foetus are cxpelled, and the flooding diminithes, from the uterus contracting clofe to the fecundines, which alfo are ufually difcharged fooner or later.
From the firucture, finally, of the patts, as reprcfented in this and the former table, it may appear, that it is much fafer to reftrain the flooding, and fuppori the patient, waiting with patience the efforts of nature, than to endeavour to ftretch the os uteri, and deliver either with the hand or inftruments, which might endangera laceration and inflammation of the parts.

Vide $C$. in tab. xxxvii. Alfo fart j.book ii. chap. ii. fect. ii. iii. iv. part, ii. collect. xii. numb. ii.


Fig. 2. reprefents the uterus in the fourth or fifth month of pregnancy, in the fame view and fection of the parts with the former figure; excepting that in this the anterior part of the collum uteri is not removed.

In the'natural fituation, the mouth and lips of the womb are covered with the vagina, and théfe parts are contlguous to each other ; but here tlie vagina $G$. is a little fretched from the neck and lips of the former, in order to fhew the parts more diftinetly.-II: The neck of the womb, which appears in this figure thicker, fhorter; and fofter, than in the former. $-K$. The inferior part of the fundus uteri; the ftretching of which can fometimes be felt through the vagina, by pufhing up a finger on the anterior or lateral part of the fame.
The uterus now is fo largely ftretched as to fill all the upper part of the - pelvis, and begins alfo to increafe fo much as to reft on the brim, and to be fupported by the fame; the fundus at the fame time being raifed confiderably above the pubes. From the abdomen being now more ftretched, the woman is more fenfible of her growing bigger; and the uterus alfo, from the counter-preffure of the contents and parietes of the abdomen, is kept down, and the os uteri prevented from rifing before the finget as formerly. In lean women, the fretching of the uterus can fometimes be perceived in the vagina at this period as well as above the pubes; but nothinis certain can be difcovered from the refiftance or feel of the moath of the womb or lips, which are commonly the fame in the firft months of pregnancy as before it.
The fize or bulk of the foetus is finally here to be obferved, with the placenta adhering to the pofterior part of the uterus.

Vide the references to part i. and ii. in the former table.

## T $A \cdot B \quad L \quad E \quad$ VII.

REPRESENTS the abdomen of a woman opened in the fixth or feventh month of pregnancy.- $A$. The parietes of the abdomen opened, and turned back to fhew $B$. The uterus.-.C. The inteftines raifed upward.

The labia pudendi are fometimes affected in pregnancy with œedematous fwellings, occafioned by the preffure of the uterus upon the returning veins and lymphatics. If the labia are fo tumefied as to obftruct the patient's walking, the complaint is removed by puncturing the parts affected: By which means the ferous fluid is difcharged for the prefent, but commonly recurs; and the fame operation muft be repeated feveral timés, perhaps, before delivery ; after which, however; the tumefaction entirely fublides. Here it may be obferved, that this complaint can feldom or never obftruct delłvery, as the labia are fituated at the anterior parts of the offa pubis, and can rarely affect the ftretching of the frenum, perinæum, vagina, and rectum. From this figure it appears, that the tretching of the uterus can eafily be felt at this period in lean fubjects, through the parietes of the abdomen, efpecally if the inteltines do not lie before it. In general indeed, as the uterus ftretches, it rifes higher ; by which means the inteftines are likewife raifed higher, and are alfo preffed to each fide. Hence the nearer a woman is to her full time, the fretching is the more eafily felt.

Vide part i. book i. chap. iii. fect. iii. Book iii. chap. i. fect. ii. and partii. coll, xii. xiii.

## T $A B L E$ VIII.

IN the fame view and fection of the parts as in table vi. is reprefented the uterus of the former table, in order to fhew its contents, and the - internal parts as they appear in the fixth or feventh month of pregnancy. $-A$. The uterus ft-ctched up to the umbilical region. $-B$. The fuperior part of the offa ilium.-C. The acetabula.-D. The remaining potterior parts of the offa ifchium. $-E$. The anus. $-F$. The vagina. - $G$. The bladder of urine. - $H$. The neck of the womb horter than in table vi. and raifed higher by the ftrctching of the uterus above the brim of the pel-vis.- $I$. The veffels of the uterus larger than in the unimpregnated ftate.K. The placenta adhering to the inferior and pofterior part of the uterus.$L$. The membranes that furround the foctus, the head of which is here reprefented (as well as of thofe in table vi.) fituated downward at the inferior part of the uterus, and which I am apt to belicve is the ufual fituation of the fcetus when at reft, and furrounded with a great quantity of waters, as the head is heavier than any other part. With refpcet to the fituation of the body of the foctus, though the fore parts are often turned toward the fides and pofterior parts of the uterus, they are here, as in the foregoing table, reprefented at the anterior part, or forward, in order to fhew them in a more diftinct and picturefgue manner.
Fidc part i. book i. chap. iii. fect. iii. iv. Part ii. collect. xiii. numb. is
From this table may appear the difficulty of feretching the os uteri in flooding cafes, even at this period, from the length and thicknefs of the neck of the womb, efpecially in a firft pregnancy; much the fame method, however, is to be followed here as was directed in table vi. till labour comes on to dilate the os uteri. If the flooding is then confiderable, the membranes fhould be broken, that the uterus may contract, and thereby leffen the difcharge. The labour likewife, if it is neceffary, may be affifted by dilating. the os uteri in time of the pains ; which alfo, if wanting, may be provoked by the fame method, when the patient is in danger. If this danger is imminent, and the woman feems ready to expire, the uterus, as "appears froms this table, is at this time fufficiently ftretched to reccive the operator's hand to extract the foetus, if the os internum can be fafcly dilated.

Latly, it may be obferved, that women are in greater danger in this period and afterwards, than in the former months.
Fide part i. book iii. chep. iv. fect. iii. numb. i. ii. iii. Part iii. coll. xxxiii. numb. ii.' See alfo, in the Edinburgh Phyfical and Literary Obfervations, art. xvii. the diffection of a woman with child, by Dr. Donald Monro, phyfician at London.

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\mathcal{T}^{-1} A \quad B \quad L \quad E \quad I X .
$$

$\mathrm{I}^{1}$N the fame view and fection of the parts with the former, reprefents the uterus in the eighth or ninth month of pregnancy.- $A$. The uterus as ftretched to near its full extent with the waters, and containing the foetus entangled in the funis, the head prefenting at the upper part of the pelvis.- $B$. The fuperior part of the offa ilium.-C. The acetabula. $-D$. The remaining pofterior parts of the offa ifchium. $-E$. The coccyx. $-F$. The inferior part of the rectum. $G$. The vagina ftretched on each fide. H. The os uteri, the lips of which appear larger and fofter than in the foregoing table, the neck of the womb being likewife ftretched to its full extent, or entirely obliterated. $-I$. Part of the vefica urinaria. $-K$. The

placenta at the fuperior and pofterior part of the utcrus. $-L$. The mem-branes'---M. The fuhis umbilicalis.

This and the furegoing table fiew in what mariner the uterus ftretclies, and how its neck grovs horter, in the different periods of pregnáncy; as alfo the magnitude of the foetus, in order more fully to explain part io book i. chap. iii. fect. iv. v. allo book iii. chap. i. fect. i. ii. likcwife part, ii. coll. xiii. numb. i.

Notwithtanding it has been händed down as an invariable truth, from the earlieft accounts of the art to the prefent times, that when the head of the fertus prefented, the face was turned to the potterior part of the pelvis, yet from Mr. Oald's obferiation, is well as from fome late diffections of the gravid uterus, and what I myfelf have obferved in practice, I am led to believe that the head prefents, for the moft part, as here delineated, with oie ear to the pubes, and the other to the os facrum ; though fometimes this may vary, according to the form of the head, as well as that of the p̉elvis.

Confult Dr. Hunter's elegant plates of the gravid utcrus.

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\ddot{T} \quad A \quad B \quad L \quad \ddot{E} \quad X,
$$

GIVES a front view of twins in utero in the begitning of labour; the anterior parts being removed, as in the preceding tables.-- $A$. The uterus as ftretched with the mémbrancs and waters.- $B$. The fuperior parts of the offa ilium. - $C$. The acetabula. $-D$. The offa ifchium, $-E$. Tlie coccyx.-F The lower parr of the rectum._-G. The vagina._H. The os internum frecthed open about a finger's breadth, with the membranes and waters in time of labour-pains.-I. The interior part of the uterus ftretched with the waters that are below the head of the child that prefents. $-K$. The two placentas adhering to the pofterior part of the uterus, the two foetufes lying before thëm; one with its head in a proper pofition, at the inferior part of the uterus, and the other fituated preternaturally, with the head to the fundus: the bodies of each are here entangled in their proper funis, which frequently happens in the natural às well. as preternatural pofitions, - $L$. The membranes belonging to each placenta,

This reprefentation of twins, according to the order obferved in my Treatife of Midwifery, ought to have been placed among my laft tables; but as that was of no confequerice, Thave placed it here, in order to fhew the os uteri grown much thinner than in the former figure, a little opén and Itretched by the waters and membranes which are pufhed down before the head of one of the foetufes in time of a labour-pain. With refpect to she pofition of twins, it is often different in different cafes; but was thus in a late diffection of a gravid uterus by Dr. Mackenzie.

Vide. part i. book ii. chap. i. fect. iv. and chap. v. feet. i. and part ii, coll. xiv. and part iii. coll. xxxvii.

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\begin{array}{lllllll}
T & A & B & L & E & X I .
\end{array}
$$

EXHIBITS another front vicw of the gravid utertis in the beginining of labour; the anterior parts being removed, as in the former table ; but in this, the membranes not being broken, form a large bay, containing the waters and foutus. $A$. The fubfance of the uterus. -
B.C. D. The bones of the pelvis.- - E. The coccyx.-F. The inferior part of the rectum.-G. The vagina.-H. The mouth of the womb largely ftretched in time of a pain; with $I$. the membranes and waters. This circumft.nee makes it ufually eertain that labour is begun ; whereas, from the degree of dilatation reprefented in the former table, there is little to he afcertained unlefs the pains are regular and ftrong, the os uteri being often found more open fevcral days, anid even weeks, betore labcur com-mences.- $K$. The chorion. - L. The fame diffected off at the inferior part of the uterus, in order to thew the head of the faetus throigh the amnios. ( $N . B$. This hint is taken from one of Dr.Albinus's tables of the gravid uterus. $/-M$. The placenta; the exterial convex furface of which divided into a number of lohes, is here reprefented, its concave internal parts being covered by the chorion.

The placenta has been found adhering to all the different parts of the internal furface of the utcrus, and fometimes even over the infide of the os utteri; this laft manner of adhefion, however, always oceafions floodings as foon as the fame begins to dilate.

Tables vi. viii. ix. x. fhew the internal furface of the placenta towards the foetus, with the veffels compofing its fubftance proceeding from the funis, which is inferted in different placentas, into all the different parts of the fame, as well as in the middle.

Thic thirtieth and thirty-third tables flew the infertion of the funis inta the abdomen of the fortus.

With refipect to the expulfion of the plaecnta when the membranes break, the uterus contracts as the waters are evacuated till it comes in contact with the body of the foetus: the fame being delivered, the uterus grows much thicker, and contracts clofely to the placenta and mombranes, by whieh neeans they are gradually feparated, and foreed into the vagina. This fhews that we ought to follew the method which nature teaches, waiting with patience, and allowing it to feparate in a fow manner; which is a mueh fafcr practice, efpecially when the patient is weak; as the difcharge is ncither fo great or fudden as when the placenta is hurried down in the too common method. But then we muft not run into the other extreme, but affift when mature is not fufficient to expel the fame.

Vide part i. book iii. Chap. i. fẹct. iv. Chap. ii. fect. ii. v. Part ii. coll. xiv, xxiii.

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\mathcal{T} A B \quad L E \quad X I I
$$

SHEWS (in a lateral view and longitudinal divifion of the parts) the gravid uterus, when labour is fomewhat advanced. - $A$. The loweft vertebra of the back.-B. The fcrobiculus cordis; the diftance from which to the lat-mentioned vertebra is here fhewn by dotted lines; as alfo part of the region below'the diaphragm.-C. The ufual thicknefs and figure of the utcrus when extended with the waters at the latter end of preg-naney.-D. The fame contracted and grown thicker after the waters are cvacuated. - E. The figure of the uterus when pendulous. In this cafe, if the membranes break when the patient is in an erect pofition, the head of the foctus runs a rifk of fliding over and above the 'offa pubis, whence the fhoulders will be pufhed into the pelvis.- $F$. The figure of the uterus when Atretehed higher than ufual, which generally oceafions yomitings and difficulty of breathing. Confult on thrs fubject Mr. Le-

veret fur le Mechanifine de differentes Groffeffes.——G. The os pubis of the left fide.- $H$. The os internum.-I The vagina.- $K$. The left nymp ha.- $L$. The labium pudendi of the fame nide.-M. The remaining portion of the bladder.- $N$. The anus.-O. P. The left hip and thigh.

In this period of labour the os uteri being more and more ftretched by the membranes pufhing down and beginning to extend the vagina, a great quantity of water is forced down at the famc time, and (if the membranes break) is difcharged; whence the uterus contacts itueff nearer to the body of the foetus, which is here reprefented in a natur I polition, with the verex refting at the fuperior part of the oflä pubis, and the forehead towards the right os ilium. As foon as the uterus is in contact with the body of the foetus, the head of the fame is forced backward toward the os facrum, from the line of the abdomen $B$, $G$. into that of the pelvis, viz. from the uppermoft $F$. to near the end of the coccy $x$, and is gradually pufhed lower, as in the following table.
If the membranes do not break immediately upon their being pufhed into the vagina, they fhould be allowed to protrude ft:ll farther, in order to dilate the os externum.

Vide part i. hook i. chap. ii. fect. ii. Chap. iii. feet. iii. Book iii. chap. i. fect. i. ii. iv. Chap. ii. fect. iii. Chap. iii. fect. iv. numb. v. Part ii. coll. x. numb. iv. cafe iii. iv. coll. xiv. Part iii. coll. xxxiv. numb. ii. cafe iv.

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\mathcal{T} A \quad B \quad L \quad E \quad X I I I .
$$

IN the fame view and fection of the parts as in table vi. fhews the natural pofition of the head of the fortus when funk down into the middle of the pelvis after the os intcrnum is fully opened, a large quantity of the waters being protruded with the membranes through the os externum, but prevented from being all difcharged, from the head filling up the ragina.- $A$. The uterus a little contracted, and thicker, from fome of the waters being funk down before the child, or difcharged.---B. The fuperior parts of the offa ilium. - $C$. The inferior part of the rectum.-D. The vagina largely fretched with the head of the foetus.-E. The os internum fully opened, $-F$. A portion of the placenta.-G. The membranes. $-H_{0}$ The ligamenta lata.-1. The ligamenta rotunda. Both thefe latf fretched upward with the uterus.

The vertex of the fortus being now down at the inferior part of the right os ifchium, and the wide part of the head at the nirrow and inferior part of the pelvis, the forehead, by force of the pains, is gradually moved backwards; and as it advances lowcr, the vertex :nd oeciput turn out below she pubes, as in the next table. Hence may be learned of what confequence it is to know, that it is wider from fide to fide at the brim of the pclvis, than from the back to the forc past ; and that it is wider from the fore to the hind head of the child, than from ear to ear.

Vide part i. book i. chap. i. feet. iti. iv. Alfo book iii. chap. iii. feet. iii. iv. numb. iii. Part ii. coll. xiv.

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\begin{array}{llllll}
T & A & B & L & E & \text { XIV. }
\end{array}
$$

IN a fimilar view and fection of the parts with table xii. fhews the forehacad of the foctus turned (in its progreflion downwards, from its pofftion in the former table) backwards to the os facrum, and the occiput

Gelow the pubes；by which means the narrow part of the heall is to flie nati－ row part of the pelvis，that is，between the inferior parts of the offa if－ chium．Hence it may be obferved，that though the diftance between the inferior patts of the lat－mentioned bones is much the faine as between the coccyx and pubes，yet as the cavity of the pelvis is much fhallower at the anterior than lateral part，the oectput of the fóftus，when come down to the interior part of either os ifchium，thims out below the pubes ： this anfwers the fanme end as if the pelvis itfelf had been wider from the pof－ terior part than from fide to fide；the head likeivife enlarging the cavity by forcing back the coccyx，and pufhing out the external parts in forin of a larger tumour，as is more fully deforibed in thié following table．

Vinte part i．ii．as referred to in the preceding table．－A．The uterus contracted clofely to the foetus after the waters are evacihated．－$B$ ．C．D． The vertebre of the loins，os facrum，and coccyx．－$E$ ．The ands．－$F$ ．The feft hip，$--G$ ．The perinaum．－－－$H$ ．＇The os externum beigilining to dilate．． 1．The os pubis of the left fide．－－－K．The remaining portion of the bladder．－－－$L$ ．＇1 he pofterior part of the us uteri．

N．B．Although for the moft part，at or before this petiod，the waters are evacuated，yet it of ten happens，that more or lefs will be retained，and not all difeharged，till after the delivery of the child ；occafioned fromi the prefenting part of the foetus coming into clofe contact with the lover or under fart of the uterus，vagina，or os externum，inmediately or foon af－ ter the inembranes break．

## $\begin{array}{llllll}T & A & B & L & E & X V .\end{array}$

ES intended principally to fhew in what manner the perinaum ahd ex－ ternal parts are ftretched by the head of the foetus in a firf pregnanicy， toward the end of labour．－$A$ ．The abdorten．$-B$ ．The labia pudendi． C．The clitdris and its preputium．－D．The hairy fcalp of the fortus［well－ ed at the vertex，in a laborious cafe，and protruded to the os externum． －E．F．The perinæum and anis pufhed out by the head of the foetus in form of a large tumour．－$G$ ．Thie parts that cover the tuberofities of the offa ifchium．－H．The part that covers the os coccygis．

The perinxutn in this figure is ftretched two inchets，or double its length in the natural ftate；but when the os externum is fo much diated by the head of the feetus as to allow the delivery of the fame，the perinaum is generally ftretched to the length of three，and fometimes fout inches． The anus is likewife lengthened an inch，the parts alfo＇between it and the coccyx being much difended．All this ought to caution the young prac－ titioner never to precipitate the delivery at this time，but to wait and allow the parts to dilate in in flow manner；as，from the violence of the labour－ p．inis，the fudden delivery of the head of the foctus might endanger the la： ceration of the parts．The palin of the operator＇s hand ought therefore to be preffed againt the perinxum，that the head may be prevented froms paffing till the os externurn is fufficiently dilated to allow its delivery， without tearing the fronum and parts betwixt that and the anus，which are at this time very thin．
Vide part i．book iii．chap，ii，fêt．ii．Clap．iii．fect．iv．numb．i．and book iv．chap．i．fect，i．Alfo part ii，coll，xiv，xxiy．Part iii．coll．xl．

$$
T A B \quad L \quad E \quad X V T_{0}
$$

AND the three following, fhew in what manner the head of the foetus is helped along with the forceps as artificial hands, when it is neceffary to affift with the fame for the fafety of either mother or child. In this table the head is reprefented as forced down into the pelvis by the labourpains, from its former pofition in table xii- A. B. C. The vertebre of the loins, os faerum, and coccyx, -D. The os pubis of the left fide- - $E_{-}$ The eemaining part of the bladder. $-F$. The inteftinum rectum. $G$. The uterus.- $H$. The nons veneris.- $I$. The clitoris, with the left nympha.$X$. The cospus convernofum clitoridis.- $V$. The meatus urinarius. $-K$. The left labium pudendi.-L. The anus.-A. The perinæum.- $2 . P$. The left hip and thigh. $-R$. The fk in and mufcular part of the loins.

The patient in this cafe may be, as in this table, on her fide, with her breech a little over the fide or foot of the bed, her knees being likewife pulled up to her belly, and a pillow placed between them, care being raken at the fame time that the parts are by a proper covering defended from the external air. If the hairy fcalp of the foetus is fo fweiled that the fituation of the head cannot be diftinguifhed by the futures, as in table xxi. or if, by introducing a finger betwcen the head of the child and the pubes or groins, the ear or back part of the neck cannot be felt, che os externum muft be gradually dilated in the time of the pains with the operator's fingers (previoufly lubrieated with hogs-lard) till the whole hand can be introduced into the vagina, and nipped up in a flatifla form between the pofterior part of the pelvis and child's head. This laft then is to be raifed up as high as polfible, to allow room for the fingers to reach the ear and pofterior part of the neck. When the pofition of the head is known, the operator muft withdraw his hand, and wait to fee if the ftretching of the parts will renew or incrcafe the labour-pains, and allow more fpace for the advancement of the head in the nelvis. If this, however, proves of no effect, the fingers are again to be introduced as before, and one of the blades of the forceps (lubricated with lard) is then to be applied along the infide of the hand or fingers and left ear of the child, as reprefented in the table. But if the pelvis is diftorted, and projects forward at the fuperior part of the os facrum, and the forehead therefore cannot be moved a little backward, in order to turn the ear from that part of the pelvis which prevents the cnd of the forccps to pafs the fame ; in that caic, I fay, the blade muft be introduced along the polterior pare of the car at the fide of the diftorted bone. The hand that was introduced is then to be withdrawn, and the handle of the introduced blade held with it as far back as the perinaum will allow, whilft the fingers of the other hand are introduced to the os uteri, at the pubes or right groin, and the other blade placed exactly oppofite to the former. This done, the handles being taken hold of and joined together, the head is to be pulled. lower and lower every pain, till the vertex, as in this table, is brought down to the inferior part of the left ifchium or below the fame. The wide part of the head being now advanced to the narrow part of the pelvis betwixt the tubarofities of the offa ifchium, it is to be turned from the left ifchium out below the pubes and the forehead backward to the concave part of the os facrumind coccyx, as in table xvii. and afterward the head brought along and delivercd as in table xviii. and xix. But if it is found that the delivery will require a confiderable degree of foree from the head being large or the pelvis narrow, the handles of the forceps are
to be tied together with a fillet, as reprefented in this table, to prevent their pofition being changed, whillt the woman is turned on her back, as in table xxiv. which is then more convenient for delivering the head than when lying on the fide.

This taile fhews that the handles of the forceps ought to be held as far back as the os externum will allow, that the blades may be in an imaginary line between that and the middle face between the umbilicus and frobiculus cordis. - When the forceps are applied along the ears and fides of the head, they are nearer to one another, have a betier hold, and mark lefs than when over the occipital and frontal bones.

Fide part i. book iii. chap. iii. from fect. is. to vi. and part ii, coll. yxv. xxvi: xxvii. and x́xix:

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\begin{array}{llllll}
T & \dot{A} & \dot{B} & L & E & X V I I:
\end{array}
$$

IN the fame view with the former, reprefents in outlines the head of the foetus brought lower with the forceps, and turned from the pofition in the former table, in imitation of the natural progreffion by the labourpains, which may likewife be fuppofed to have made this turn before it was neceffary to affift with the forceps, this neceffity at laftarifing from many of the caufes mentioned in part i:

In this view the pofition of the forceps along the ears and narrow part of the head is more particularly expreffed. It appears alfo, that when the vertex is turned from the left os ifchium, where it was clofely confined, it is difengaged by coming out below the pubes, and the forehead that was preffed againft the middle of the right os ifchium is turned into the concavity of the os facrum and coccyx. By this means, the narrow part of the head is now between the offa ifchium, or narrow part of the pelvis; and as the occiput comes out below the pubes, the head paffes ftill eafier along. When the head is advanced folow in the pelvis, if the pofition cannot be diftinguifhed by the futures, it may for the moft part be known by feeling for the back part of the neck of the fortus, with a finger introduced betwixt the occiput and pubes, or toward one of the groins. If the head is fqueezed into a longifh form, as in table xxi. and has been detained many hours in this pofition, the pains not being fufficient to complete the delivery, the afiftance of the forceps inuft be taken to fave the child, though the woman may be in no danger. But if the head is high up in the pelvis, as in the former table, the forceps ought not to be ufed except in the moft urgent neceffity.

This table alfo fhews that the handles of the forceps are fill to be kept back to the perinæum, and, when in this pofition, arc in a line with the upper part of the facrum, and if held more backward, when the head is a little higher, would be in a line with the fcrobiculis cordis. If the forceps are applied when the head is in this pofition, they are more eafily introduced when the patient is in a fupine pofition, as in table xxiv. Neither is it neceflary to tie the handles, which is only done to prevent their alteration when turning the woman from her fide to her back.

As I havc had feveral câfes where a longer fort of forceps, that are curved upward, are of great ufe to help along the head when the body is delivered firft, as in table xxxv. the fame are reprefented here by dotted lines. They may be ufed in laborious cafes as well as the othess, but are not managed with the fame eafe.


## TABLE XVIII



## Table XZX



Mof of the parts of this table being marked with the fame letters as the former, the defcriptions there given will anfwer in this, except the fol-lowing.--L. M. The anus.-M.N. The perinæum.-O. The common integuments of the abdomen. $-R$. The fhort forceps. $-\cdots-S$. The long curved forccps. The firlt of thefe is eleveri inches long, and the laft twelve inches and a half, which I have after feveral alterations found fufficient; but this need not confine others who may chufe to alte: them from this ftandard. Vide table xxxvii.

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\tau A B \quad \& \quad E \quad X V I H:
$$

I$N$ the fame view and fection of the parts; fhews the head of the foetus in the fame pofition, but brought lower down with the forceps than in the former table; for in this the os externum is more open, the occiput comes lower down from below the pubes, and the forehead paft the coccyx, by which both the anus and perinxum arc ftetched out in form of a large tumour, as in table xv.

When the head is fo far advariced, the operator ought to extract witl great caution; left the parts fhould be toren. If the labour-pains are fufficient, the forehead may be kept down and helped along in a flow manner by preffing againft it with the fingers on the external parts below the coccyx ; at the fame time; the forceps being taken off, the head may be allowed to ftretch the os externum more anid more in a gradual manner, from the force of the labour-pains as well as the affiftance of the fingers. But if the former are weak and infufficient, the affiftance of the forceps muft be continued. (Vide the defcription of the parts in tab. xvi.) S. $T_{:}$: in this; reprefent the left fide of the os uteri. The dotted lines demionftrate the fituation of the bones of the pelvis on the right fide, and may ferve as an exmmple for all the views of the fame-a.b. c. b. The outlines of the os ilium.-D. e. f: The fame of the pubis and ifchium. io i.k. The acctabulum.一m. $n$. The foramen magnum.

Vide part i. book iii. chap. v: fect. iii. Part ii. collect. xxv.

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\begin{array}{llllll}
\tau & A & B & L & E & X I X
\end{array}
$$

I N the famc view and fection of the pelvis, is intended by outlines to thew, that as the external parts are ftretched, and the os externun? is dilated, the occiput of the foetus rifes up with a femicircular turn from out below the pubes, the under part of which bones are as an axis or fulcrum, on which the back part of the neck turns, whilft at the faime time the forehead and face, in their turn upward, diftend largely the parts between the coccyx and os externum: This is the method obferved by nature in ftretching thefe parts in labour ; and as nature is atways to be imitated, the fame method ought to be followed when it is neceffary to help along the head with the forceps.

Vide the three former tables for the deferiptions and refferencés.

$$
\mathcal{T} A B \quad L \quad E \quad X X:
$$

I N the fame fection of the parts, but with a view of the right fide, thews the head of the foctus in the contrary pofition to the thiee laft figures; the vertex being hore in the concavity of the facrum, and the fore-
head turned to the pubes.- $A$. B. The vertebra of the loins, os facrum, and coccyx. -C. The os pubis of the right fide - $D$. the anus.$E$. The os externum not yet begun to ftretch.-F. The nympha.- (?. The labium pudendi of the right fide.-H. The hip and thigh.- $H$. The utcrus contracted, the waters being all difcharged.

When the head is fmall, and the pelvis large, the parietal bones and the forehead will in this cafe, as they are forced downward by the Iabour-pains, gradually dilate the os externum, and ftretch the parts between that and the coccyx in form of a large tumour, as in tab. xv. till the face comes down helow the pubes, when the head will be fafely delivered. But if the fame be large and the pelvis narrow, the difficulty will be greater, and the child in danger; as in the following table.

Vide part i. book iii. chap. iii. fect. iv, numb. iii. Part ii. collect. xvi. numb. ii.

$$
\tau A B C \quad E \quad X X I .
$$

SHEWS the head of the foetus in the fame pofition as in the former table; but, being much larger, it is by frong labour-pains fqueezed into a longifh form with a tumour on the vertex, from the long compreffion of the head in the pelvis. If the child cannot be delivered with the labotr-pains, or turned and brought footling, the forceps are to be applied on the head, as deferibed in this figure, and brought along as it prefents; but if that cannot be done without running the rifk of tearing the perinxum, and even the vagina and rectum of the woman, the forehead mult be turned backward to the facrum. To do this more effectually, the operator mult grafp firmly with both hands the handles of the forceps, and at the fame time pufhing upward raife the head as high as poffible, in order to turn the forehead to one fide, by which it is brought into the natural pofition; this done, the head may be brought down and delivered as in tab. xvi. \&c.

Tide part i. book iii. chap. iii. fect. iv, numb. ii. and part ii. collect. xxviii. Alfo the former table for the defcription of the parts, except $K$. The tumour on the vertex. The fame compreffion and elongation of the head as well as the tumour on the vertex, may be fuppofed to happen in a greater or lefs degree in the xvi. xvii. xviii. xix. tables, as well as in this, where the difficulty proceeds from the head being large or the pelvis narrow. Vide tab. xxvii. xxviii._L. The forceps. Sometimes the Eorehead may be moved to the natural pofition by the affiftance of the fingers or only one blade of the forceps: The forceps may either be the ftraight kind, or fuch as are curved to one fide, when it is neceliary to ufe one or both blades. - M. The vefica urinaria much diftended with a large quantity of urine from the long preffure of the head againft the urethra; which Thews, that the urine ought to be drawn off with a catheter, in fuch extraordinary cafes, before you apply the forceps, or in preternatural cafes, where the child is brought footling. $\quad N$. The under part of the uterus. - O. The os uteri.

SHE W S, in a front view of the parts, the forehead of the foctus prefenting at the brim of the pelvis, the face being turncd to one fide, the fontanel to the other, and the feet and breech Atretched to the fundus uteri. - A. The fuperior part of the offailium.-B. The anus.-_C. The

perinæum. - $D$. Theos extcrnum ; the thicknefs of the pofterior part before it is ftretched with the head of the child.-E The vagina, - $F$. The os uteri not yet fully dilated.-G. The uterus.-H. The membrana adipofa.

If the face is not forced down, the head will fometimes come along in this manner; in which cafe the vertex will be flattened, and the forehead raifed in a conical form; and when the head comes down to the lower part of the pelvis, the face or occiput will be turned from the fide, and come out below the pubes. But if the head is large, and cannot be delivered by the pains, or if the wrong pofition cannot be altered, the child muft, if poffible, be delivered footling, or delivered with the forceps.

Vide parti. book iii. chap. ii. fect. iii. Chap. iii. fect. iv. numb. iii. Part ii. collect. xvi. numb. iv. collect. xxviii.

## $\tau \quad A \quad B \quad L \quad E \quad$ XXIII.

SHEW S, in a lateral view, the face of the child prefenting, and forced down into the lower part of the pelvis, the chin being below the pubes, and the vertex in the concavity of the os facrum ; the waters likewife being all difcharged, the uterus appears clofely joined to the body of the child, round the neck of which is one circumvolution of the funis- $A$. $B$. The vertebre of the loins, os facrum, and coccyx.-C. The os pubis of the left fide. - $D$. The inferior part of the rectum,- $E$. The perinæum.$F$. The left labium pudendi.- $G$. The uterus.

When the pelvis is large, the head, if fmall, will come along in this pofition, and the child be faved; for as the head advances lower, the face and forehead will ftretch the parts between the franum labiorum and coccyx in form of a large tumour. As the os extennum likewife is dilated, the face will be forced through it ; the under part of the chin will rife upward oyer the anterior part of the pubes; and the forehead, vertex, and occiput, turn up from the parts below. If the head, however, is large, it will be detained either when higher or in this pofition. In this cafe, if the pofition cannot be altered to the natural, the child ought to be turned, and deliyered footling. If the pelvis, however, is narrow, and the waters not all gone, the vertex fhould if poffible be brought to prefent; but if the uterus is fo clofely contracted that this cannot be effected, on account of the ftrong preffure of the fame and flippinefs of the child's head, in this cafe the method directed in the following table is to be taken.

## T $A \quad B \quad L \quad E$ XXIV.

REPRESENTS, in the lateral view, the head of the foetus in the fame pofition as in the former table; but the delivery is fuppofed to bs sctarded from the largenefs of the head, or a narrow pelvis.

In this cafe, if the head cannot be raifed, and puthed up into the uterus, it ought to be delivercd with the forceps in order to fave the child. This pofition of the chin to the pubcs is one of the fafett cafes where the face prefents, and is moft eafily delivered with the forceps, the manner of introducing of which over the ears is fhewn in this fable. The patient muit lie on her back, with her brccech a little over the bed, her legs and thighs being fupported by an affiftant fitting on each fide: 'After the parts have beens Howly dilated with the hand of the operator, and the forceps introduced, and properly fixedalong the ears of the child, the bead is to be brought down
by degrees, that the parts below the os externum may be gradually ftretched; the chin is then to be raifed up over the pubes, whill the forehead, fontanel, and occiput, are brought out flowly from the perinæum and fundament, to prevent the fame from being hurt or lacerated. But if the foetus can neither be turned nor extracted with the forceps, the delivery mult be left to the labour-pains, as long as the patient is in no danger ; but if danger is apparent, the head mult be dclivcred with the curved crotchets. Vide tab. xxxix.

When the facc profents, and the chin is to the fide of the pelvis, the patient muft lie on her fide; and after thc forceps are fixed along the ears, the chin is to be brought down to the os ifchium, and then turned out below the pubes, and delivercd in a flow manner as above.

Vide part ii. collect. xvi. numb. vi. as alfo tab. xvi. xvii. xviii. and xix. for the defcription of the parts.

## T $A \quad B \quad L \quad E \quad X X V$.

SHEWS, in a lateral view of the right fide, the face of the foetus prefenting, as in tab. xxiii. but in the contrary pofition ; that is, with the chin to the os facrum, and the bregma to the pubes, the waters evacuated and the uterus contracted. $-A$. The os extcrnum not yet begun to ftretch $-B$. The anus. Vide tab. xx . for the farther defcription of the parts.

In fuch cafes, as well as in thofe of the laft-mentioned table, if the child is fmall, the head will be pufhed lower with the labour-pains, and gradually ftretch the lower part of the vagina and the external parts; by which means the os cxternum will be more and more dilated, till the vertex comes out below the pubes, and rifes up on the outfide; in which cafe the delivery is then the fame as in natural labours. But if the head is large, it will pafs along with great difficulty; whence the brain, and veffels of the neck, will be fo much compreffed and obiftucted as to deftroy the child. To provent which, if called in time, before the head is far advanced in the pelvis, the child ought to be turned and brought footling. If the head however, is low down, and cannot be turned, the delivery is then to be performed with the forceps, either by bringing along the head as it prefents, or as in the following table. See the references in the preceding table.

## $\tau \cdot A \quad B \quad L \quad E \quad$ XXVI.

R EPRESENTS, by out-lines, in a lateral view of the left fide of the fubject, the fortus in the fame fituation as in the former table.
The head here is fqueezed into a very oblong form; and though forced down fo as fully to dilate the os externum, yet the vertex and occiput cannot be brought fo far down as to turn out from below the pubes (as in the forcgoing table) without tearing the perinæum and anus, as well as the vagina and rectum.

The beft mothod in this cafe, after either the fhort or long-curved forceps have becn applied along the cars (as reprefented in the table) is to pufh the head as high up in the pelvis as is poffible ; after which the chin is to be turned from the of facrum to either os ifchium, and afterwards brought down to the inferior part of the laft-mentioned hone. This done, the operator mult pull the forceps with one hand, whilf two fingers of the other are fixed on the lower part of the chin or under-jaw, to kecp the face in the middle, and prevent the chin from bcing detaincd at the os ifchium as it somesalong; and in this manner move the chin round with the forceps
and the above fingers till brought under the pubes; which done, the head will be eafily extracted, as in table xxiv.

If, before affitance has been called, the head is fo fqueezed down into the pelvis, that it is impoffible to move the chin from the facrum to either os ifchium, fo as to deliver with the forceps, for the fafety of the child, the operator mult wait with patience as long as the woman is not in danger, or there is no certainty of the death of the fætus : but if the patient runs the leaft rifk, the head muft be delivered with the crotchet.

In general, with refpect to the pofture of the woman in the application of the forceps, when the ears are to the fides of the pelvis, the forceps, as was obferved in table xxiv. are moft eafily introduced when the patient lies upon her back, and her breech over the fide of the bed; but when the ear is to the pubes or groin, they are better applied when the patient lies on her fide, as was obferved in the cafes where the vertex prefented.

Vide table xxiv. for the defcription of the parts, and the references. Alfo table xxxix. for the manncr of ufing the crotchet.

$$
\tau A B \quad L \quad E \quad \text { XXVII. }
$$

GIVES a lateral internal view of a diftorted pelvis, divided longitudinally, with the head of a fertus of the feventh month paffing the fame. Vide the explanation of table iii. A. B.C. The os facrum and coccyx. $D$. The os pubis of the left fide.-E. The tuberofity of the os ifchium of the fame fide.

The head of the fœetus here, though fmall, is with difficulty fqueezed down into the pelvis, and changed from a round to an oblong form before it can pafs, there being only the fpace of two inches and one quarter between the projection of the fuperior part of the facrum and offa pubis. If the head is foon delivered, the child may be born alive; but if it continues in this manner many hours, it is in danger of being loft, on account of the long preffure upon the brain. To prevent which, if the labour-pains are not fufficiently ftrong, the head may be helped along with the forceps, as directed in table xpi.

This figure may ferve as an example of the extreme degree of diftortion of the pelvis, between which and the well-formed one are many intermediate degrees, according to which the difficulty of delivery muft increafe or diminifh, as well as from the difproportion of the pelvis and head of the foetus; all which cafes require the greatelt caution, both as to the management and fafety of the mother and child.

Fide part i. book iii. chap. ii. fect. iii. numb. v. Chap. iii. fect. iv. numb. iii. Part ii. coll. xxi. numb. i. and coll. xxix.

## $\tau \cdot A \cdot B \quad L \quad E \quad$ XXVIII.

GIVES a fide-view of a diftorted pelvis, as in the former table, with the head of a full-grown foctus fqucezcd into the brim, the parietal bones decuffating each other, and comprcffed into a conical form.-A.B.C. The os facrum and coccy $x$. - D. The os pubis of the left fide. - $E$. The tubcrofity of the os ifchium, - $F$. The proceflus acutus.-G. The foramen magnum.

This table fhews the impoffibility in fuch a cafe to fave the child, unlefs by the Cæfarean operation; which, however, ought never to be performcd, excepting when it is impract ble to deliver at all by any other method. Even in this cafe, after the upper part of the head is diminifhed in bulk, and the bones are extructed, the greateft force mult be applied in order to extract the bones of the face and bafis of the fkull, as well as the body of the fuetus.

Vidf part i. hook iii. chap. iii. fect. vii. Chap.v. fect. iii. and part iii. coll, xxxi. xxxix.

$$
\mathcal{T} A B, L \quad E \quad \text { XXIX. }
$$

REPRESENTS, in a front view of the pelvis, as in table xxii. the breech of the fotus prefenting, and dilating the os internum, the membranes being too foon broke. The fore parts of the child are to the porterior part of the uterus; and the funis with a knot upon it furrounds the meck, arm, and body.

Some time after this and the following tables were engraved, Dr. Kelly fhewed me a fubject he had opened, where the breech prefented itfelf, and lay much in the fainc pofition with its body as in table ix. fuppofing the breech in' that 'figure turned down to the pelvis, and the liead up to the fundus uteri.

I have fometimes felt in thefe cafes (when labour was begun, and before the breech was advanced into the pelvis) one hip at the facrum, and the other refting above the os pubis and the private parts to one fide; hut before they could advance lower, the nates were turned to the fides and wide part of the brim of the pelvis, with the private parts to the facrum, as in this table; though fometimes to the pubes, as in the following table. As foon as the breech advances to the lower part of the bafon, the hips again return to their former pofition, viz. onc hip turned out below the os pubis, and the other at the back parts of the os externum.
$N . B$. In this cafe the child, if not very large, or the 'pelvis narrow, may be often delivered alive by the labour-pains; but if long detained at the inferior part of the pelvis, the long preflure of the funis may obitruct the circulation. In moft cafes where the breech prefents, the effect of the labnur-pains ought to be waited for, till at leaft they have fully dilated the os internum and vagina, if the fapo have not been ftretched before with the waters and membranes. In the mean time, whillt the breech advances, the os externum may be dilated gently during every pain, to allow room for introducing a fingcr or two of each hand to the outfide of each groin of the fcetus, in order to affift the deliyery when the nates are advanced to the lower part of the vagina. But if the foetus is larger than ufual, or the pelvis narrow, and after a long time and many repeated pains the breech is not forced down into the pelvis, the patient's ftrength at the timc of failing, the operator mult in a gradual manner open the parts, and, having introduced a hand into the yagina, raife or pufh up the brcech of the feetus, and bring down the legs and thighs. If the uterus is fo ftrongly contracted that the legs cannot be got down, the largeft end of the blunt hook is to be introduced, as directed in table $x \times x v i i$. As foon as the brecch or legs arc brought down, the body and head are to be delivered, as defcribed in the next table, only therc is no neceffity liere to alter the pofition of the child's body.

Fide part i, buok iii. chap. iv. fect. i. ii. Part iii, col, xxxji.

The defcription of the parts in this and the following table is the farme as in table xxii. only the dotted lines in this defcribe the place of the offa pubis, and anterior parts of the offa ifchitum which are removed, and may ferve in this refpect as an example for all the other front views, whete, without disfiguring the table, they could not be fo well put in.

## $\tau A B E \quad E \quad X X X$.

SHEWS, in the fame view and with the fame references as the former, the breceh of the foctus prefenting; with this difference, however, that the fore parts of the child are to the fore part of the uterus. In this cafe, when the breech coming double as it prefents, is brought down to the hams, the legs muit be extracted, a cloth wrapped round them, and the fore parts of the child turned to the back parts of the woman. If a pain fhould in the mean time force down the body of the child, it ought to be pufhed up agaim in turning, as it turns eafier when the belly is in the pelvis, than when the brealt and houlders are engaged; and as fometimes the face and forehead are rather towards one of the groins, a quarter-turn more brings thefe parts to the fide of the pelvis, and a little backwards, after whicth the body is to be brought down. If the child is not large, the arms need not be brought down, and the head may be delivered by preffing back the fhoulders and body of the child to the perinæum, and, whilt the chin and face are within the vagina, to bring the occiput out from below the pubes, according to Darenter's method; or the operator may introduce a finger or two into the mouth, or on each fide of the nofe, and fupporting the body on the fame arm, fix two fingers of the other hand over the fhoulders, on each fide of the child's ncck, and in this manner raife the body over the pubes, and bring the face and forehead out with a femicircular turn upward, from the under part of the os externum. All this may be eafily done when the woman lies on her fide; but if the child is large, and the pelvis narrow, it is better to turn the patient on her back, as defcribed in table xxiv. and after the legs and body are extracted as far as the thoulders, the arns are to be cautioufly brought down, and the head delivered. If the woman has Arong pains, and when by the felt pulfation of the veffels of the funis umbilicalis, or the ftruggling motions of the fottus, it is cersain that the child is ftill alive, wait with patience for the affiftance of the labour; but if that and the hand are infufficient, and the pulfation of the funis turns weaker, and if the child cannot be brought double, the breecle muft be pufhed up; and if the refiftance of the uterus is fo great as to prevent the extraction of the legs, the patient ought to be turned on her knees and elbows. When the legs are thus brought down, the woman, if needful, is to be again turned to her back, to allow more freedom to deliver the body and head, as before defcribed.

If the head after feveral trials cannot be delivered, without endangering the child from over-ftraining the neck, the long-curved forceps ought to be applied, as in table xxxv. If thefe fail, and the patient is not in danger, fome time may be allowed for the effect of the labour-pains; which likewife proving infuffieient, the crotchet muft be ufed as in table xxxix. and when it is certuin that the child is dead, or that there is no poffibility of faving it,

## $\tau A B \quad L \quad E \quad X X X I$.

REPRESENTS, in a front view of the pelvis, the foetus compreffed by the contraction of the utcrus into a round form, the fore parts of the former being toward the inferior part of the latter, and one foot and hand fallen down into the vagina. In this figure the anterior part of the pelvis is removed by a longitudinal fection through the middle of the foramen magnum. - $A$. The fuperior parts of the offa ilium.- B. The uterus.$C$. The mouth of the womb ftretched, and appearing in $O$. The vagina; $-D$. The inferior and pofterior parts of the os externum. $-E$. The remaining part of the offa pubis and ifchium.- $F$. The membrana adipofa.

This and the three following tables, reptefenting four different preternatural pofitions of the foetus in utero, may ferve as examples for the manner of delivery in thefe as well as in all other preternatural cafes.

In all preternatural cafes, the foetus may be eafily turned and delivered by the feet, if known before the membranes are broke and the waters difcharged; or if the pelvis is narrow, and the patient is ftrong, the head, if large, may be brought down fo as to prefent in the natural way; but if all the waters are difcharged, and the uterus is ftrongly contracted to the body of the foctus, this latt method can feldom take place, on account of the ftrong preffure of the uterus, and flippinefs of the child's head.

In the prefent cafe, the woman may either be laid on her back or fide; as defcribed in tables xvi. and xxiv. and the operator, having flowly dilated the os externum with his fingers, muft introduce the fame into the vagina, and pufh up into the uterus the paris of the foetus that prefent; or if there is fpace for it, his hand may pafs in order to dilate the os internum, if not fufficiently ftretched previoufly by the membranes and waters. This done, he muft advance his hand into the uterus, to know the pofition of the foetus: and, as the breech is rather lower than the head, fearch for the other leg, and bring down both feet without the os externum. A cloth muft then be wrapped round them; and, having grafped them with one hand, he is to introduce the other into the uterus, in order to raife the head of the fæetus, whilft the legs and thighs are pulled dowu by the hand that holds the feet. When the head is raifed, and does not fall down again, the hand of the operator may be withdrawn from the uterus, and the delivery completed as directed in the two former tables. By the artlefs method of taking hold and pulling one or both feet, the breech may come down and the head rife to the fundus; but if this fhould not happen, there will be great danger of over-ftraining the foctus, which is prevented by the former mothod. If the membranes are broken before the os uteri is largely opened, and the hand of the operator cannot be introduced, which fometimes happens in a firlt pregnancy, the parts of the foetus fhould be allowed to protrude ftill farther, by which means the rigidity of the os internum will in time be leffened.

Vide part i. and iii. on preternatural labours.

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\begin{array}{lllllll}
T & A & B & L & E & X X X I I .
\end{array}
$$

REPRESENTS, in the fame view with the former, the foetus in the contrary pofition; the breech and fore parts heing toward the fundus uteri, the left arm in the vagina, and fore arm without the os externum, the fhoulder being likewife forced into the os uteri.


The operator in this cafe muft introduce his fingers between the back part of the vagina and the arm of the foetus, in order to raife the fhoulder and make room for preffing his hand into the uterus to diftinguifh the pofition. This being known, he ought to pufh up the fhoulder to that part of the uterus whee the head is lodged, in order to raife the fame to the fundus. If the body of the foctus does not move round, and thereby lies in a more convenicnt pofition for bringing down the legs, the hand of the operator ought to be pufhed up fill higher to fearch for and take hold of the feet, which are to be brought down as far as poffible. If this fhould not change the pofition, the fhoulder is to be pufhed up, and the legs pulled down, alternately, till they are brought down into the vagina, or without the os externum; after which the delivery may be completed, as in the former cafe.

If the feet cannot be brought down lower than into the vagina, a noofe may be introduced over both ankles, by which the legs are brought lower by pulling the noofe with one hand, whilit the other, previoully introduced into the uterus, pufhes up the fhoulders and head. By this double force the pofition of the fortus is to be altered, and the delivery effected. In thefe cafes, as the fhoulder is raifed to the fundus, the arm commonly returns into the uterus; but if the arm is fo fwelled as to prevent the introduction of the operator's hand, and cannot be folded up or returned into the uterus, it mult be taken off at the fhoulder or elbow, in order to deliver and fave the woman. If both the arms come down when the breaft prefents, the methods above defcribed are to be ufed.
$V$ :de the explanations and referentes of the foregoing table:

## $\mathcal{T} A \quad B \quad L \quad E \quad X X X I I$.

EXHIBITS, in the fame view likewife of the pelvis with the former, a third pofition of the foetus when compreffed into the round forms riz. the belly, or umbilical region, prefenting at the os internum, and the funis fallen down into the vagina, and appearing at the os externum.

The delivery in this cafe is to be effected as in the former table, by pufhing up the breatt and bringing down the legs. When the belly prefents, it is eafier coming at the legs than when the breaft prefents, becaufe in the former cafe the head is nearer to the fundus uteri, and the legs and thighslower. If the belly or breat is forced down into the lower part of the pelvis; the child will be in danger from the bending of the vertebræ and the preffure of the fpiral marrow. So great force is alfo required to raife thefe parts up into the uterus, in order to come at the feet, that it will fometimes be neceflary to turn the woman on her knees and elbows, to diminifh the refiftance of the abdominal mufcles. When the funis comes down without the os externum, if there is a pulfation felt, it muit immediately be replaced and kept warm in the vagina, to preferve the circulation, and prevent a ftagnation from its being expofed to the cold air. If the funis comes down when the head preients, the child is in danger, if not fpeedily delivered with the pains, or brought foot: ling.

See explanations to the two former tables.

## $\tau A B L E$ XXXIV.

SHEWS, in a lateral view of the pelvis, one of the moft difficult preternatural cafes. The left fhoulder, breaft, and neck of the foetus prefenting, the head reflected over the pubes to the right floulder and back, and the feet and breech ftretched up to the fundus, the uterns contracted at the fame time in form of a long theath round the body of the foetus.A. B.C. The os facrum and coccyx. - D. The os pubis of the left fide. E. Part of the urinary bladder.-F. The rectum.-H.I.K. The privities.$M$. The anus. $-M$. N. The perinæum.- $V$. The meatus urinarius. $O$. The os uteri, not yet opened, and fituated backward toward the rectum and coccyx.-R.S. The fame reprefented in dotted lines, as opened when the labour is begun.-T. U. The fame more fully dilated, but nearer to the pofterior than anterior part of the pelvis.-W. P. The fame not fully ftretched at the fore part, though entirely obliterated at the back part, the uterus and vagina being there only fometimes one continued furface.

Hence it appears why the anterior part of the os uteri is frequently protruded before the head of the fœtus at the pubes, which, if it retards delivery, is removed by fliding it up with a finger or two between the head and laft-mentioned part. Vide tables ix. x. xi, xii. xili.

The manner of delivery in the pofition of the foctus as reprefented irz this table, is to endeavour with the hand to force up the part prefenting, in order to raife the head to the fundus. If this is impoffible from the ftrong contraction of the uterus, the operator muft pufh up his hand in a flow and cautious mamer along the breale and belly of the child, in order to come at the legs and feet, which are to be taken hold of, and brought as far down as the pofition of the foetus will admit of. The body is then to be moved round, by pulhing up the lower parts and pulling down the upper, till the feet are brought without the os externum, and delivery completed as in table xxxi. But if the feet cannot be got down fo as to be taken hold of without the os externum, a noofe muft be fixed over the ankles, as in table xxxii.

Vide parts i. iii. as directed in table xxxi。

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T A B C \quad L \quad X X X V .
$$

SHEWS, in a lateral view of the pelvis, the method of affiting the de-
livery of the head of the foetus with the long curved forceps, in preternatural cafes, when it cannot be done with the hands as defcribed in tables xxix. and xxx.- A. The three loweft vertebre of the loins, with the os facrum and coccyx. $-B$. The os pubis of the left fide.- $C$. The perinxums and anus preffed backward with the forceps.-D. The inteftines. $-E$. The parieties of the abdomen. $-F$. The uterus.- $G$. The poferior part of the os uteri.- $H$. The rettum.- - . The vagina.

After the body and arms of the child are delivered, and the different methods ufed to bring down the head wish the hands, as directed in the above table, and more fully defcribed in parts i. and iii. the following method is to be tried in order to fave the child, who muft otherwife be loft by over-ftraining the neck and fpinal marrow : The woman being in the fupine pofition, as in table xxiv. one of the affiftants ought to hold the body and arims of the child up toward the abdomen of the woman, to give more room to the operator, who having introduced one hand up to
the child's face, and moved it from the fide a little backward for the eafier application of the forceps along the fides of the head, mult then turn his hand to one of the ears and introduce one of the blades with the other hand between the fame and the head, with the curved fide toward the pubes, as in this table. This done, the hand is to be brought downto hold the handle of the blade of the forceps till the other hand is introduced to the other fide of the head, by which means the fame is preffed againft the blade that is up, and which is thus prevented from flipping whilft the other hand introduces the fecond biade on the oppofite fide. The blades being thus introduced, care muft be taken that, in joining them, no part of the vagina is locked in. After the forceps are firmly fixed along the fides of the head, the face and forehead mult be turned again to the fide of the brim of the pelvis. by which means the wide part of the head is to the wide part of the brim. This done, the head is to be brought lower, and the force gradually increafed according to the refiftance from the largenefs of the head or narrownefs of the pelvis. The forehead, when brought low enough down, is then to be turned into the concavity of the os facrum and coccyx, the handles of the forceps raifed upward, and the fame caution ufed in bringing the head through the os externum as defcribed in tables xix. and xxx. By this method the head will be delivered, the child frequently faved, and the ufe of the crotchet prevented, except in thofe bafons that are fo narrow that it is impoffible to deliver without diminifhing the buik of the head.

Vide table xxxix. Alfo part i. book iii. chap. iv. fect. v. Part iii. coll. s.xxiv, exxy.

## T A B L E XXXVI.

REPRESENTS, in a lateral view of the pelvis, the method of extracting with the affiftance of a curved crotchet, the head of the feetus, when left in the uterus, after the body is delivered and feparated from it, either by its being too large, or the pelvis too narrow.-A.B.C. The os facrum and coccyx. - D. The os pubis of the left fide. $-E$. The uterus. $-F$. The lock ing part of the crotchet.-g.b. i. The point of the crotchet on the infide of the cranium.

If this cafe happens from the forehead being toward the pubes, or the child long dead, and fo mortified that both the body and under-jaw are feparated unexpectedly, the long forceps that are curved upward will be fufficient to extract the head; but if the fame is large, and the pelvis narrow, and the delivery cannot be effected by the above method, then the head muft be opened, that its bulk may diminifh as it is extracted. The patient being placed either on her back or fide, as in the explanation of table xri. and xxiv. the left-hand of the operator is to be introduced into the uterus, and the forchead of the fretus turned to the right-fide of the brim of the pclvis, and a little backward, the chin being downward; after which the palm of the hand and fingers are to bc advanced as high as the fontancl, and the head grafped with the thumb and little finger on caul fide, as firm as is poffible, whilft an affiftant preffes on each fide of the abdomen with both hands, to keep the uterus firm in the middle and lower part of the fame. This done, the operator having with his right-hand introduced and applied the crotched to the head (the point being turned toward the forchead, and the convex fide , toward the facrum) he mult go up along the infide of the left-hand as high as the foutanel, and tnere, or near it, fix the point of the crochet, keeping ftill the left-hand in the former pofition, till with the other he pierces the cranium with the point of the in-
frument, and tears a large opening in it from $K_{\text {. }}$ to $I$.; after this, keeping the crotchet ftcady, he m.y flide dowh his left-hand in a cautious manner left the former pofition fhould be altered, and the head will fink lower down by the affiftant preffing on the abdomen. The two fore-fingers of the left-hand are then to be introduced into the mouth, and the thumb below the under-jaw, the hand being above the blade of the crotchet. When this firm hold is taken, the opcrator may begin and pull fowly with both hands; and as the brain difcharges through the perforation, the head will diminifh and come along. If this mothod fhould fail from the flippinefs of the head, or its being fo much offified that a fufficient opening cannot be made, the vertex muft be turned down to the brim of the pelvis, the fontanel backward, and each blade of the long forceps introduccd along the fides of the head, with the curved fide toward the pubcs. After they are joined and locked, the handles arc to be tied together with a fillet, to keep them firm on the head; an affifant is to keep the handles back ward till the cranium is large lyopened with the long fciffars fhewn in table xxxix. This, done, the head is to be extracted in a llow manner, firt turning the forehead to the fide of the brim ; and as the brim evacuates, and the head comes lower down, again turning the forehead into the concavity of the facrum, and completing the delivery, as in table xvi.

This table may alfo ferve for an example to fhew the method of fixing the crotchet on the head, when although the body is not feparated from it, yet it cannot be delivered with the operator's hands or the long forceps, as in tables xxix. and xxxv.

Vide part i. book iii. chap. iii. fect. vii. Chap. iv. fect. v.? Alfo part iiis coll, xxxi. xxxvi.

## $T A B E L E X X X I I$.

A ND the two following, reprefent feveral kinds of infrum nts ufeful in laborious and difficult cafes.- $A$. The fraight fhort forceps, in the exact proportion as to the width between the blades, and length from the points to the locking part ; the firf being two and the fecond fix inches, which with five incles and a half (the length of the handlcs) make in all cleven inches and a half. The length of the handlcs may be altcred at pleafure. Ifind, however, in practice, this this ftandard is the moft convenient, and with lefs difficulty introduced than when longer, having alfo fufficient force to deliver, in moft cafes, whore their affitance is neceffary. The handles and loweft part of the blades may, as here, be covered with any durable leather; but the blades ought to be wrapped round with fomething of a thimer kind, which may eafily be renewed when there is the leaft furpicion of venercal infcetion in a former cafe: by being thus covercd, the forceps have a better hold, and mark lefs the head of the child. For their cafier introduction, the blades ought likewife to be greafed with hogs-lard.-B. reprefents the pofterior part of a fingle blade, in order to fhew the open part of the fame, and the formand proportions of the whole. The handles, however, as here reprefented, are rather too largc.

Vide table xxi. for the figure and proportions of the long forceps, that are curved upward, and covered in the fame manner as the former.

The forccps were at firft contrived to fave the fæetus, and prevent as much as poffible the ufe of fharp inftrunicits; but even to this falutary method eccourfe ought not to be had but in cafes wherc the degrce of force requilite to cxtrait will not endarger, by its. confequences, the life of the mother

L'ADLE. XXXTII.


Waziz: xגスvit.


ther; for, by the imprudent ufe of the forceps, much more harm may be done than good.

See the explanation of table xvi. Alfo part ii. with the cafes in the collection on that fubject.- C. The blunt hook, ufed for three purpofes, viz.

Firft, To affint the extraction of the head after the cranum is opened with the fciffars, by introducing the fmall end, along the ear on the outfide of the head to above the under-jaw, where the point is to be fixed; the other extremity of the hook, being held with one hand, whilt two fingers of the other are to be introduced into the aforefaid ovening, by which holds the head is to be gradually extracted.

Secondly, The fmall end is ufeful in abortions, in any of the firft four or five months, to hook down the fecundines when lying loofe in the uterus; when the patient is much weakened by floodings from the too long retention of the fame, the pains being alío unable to expel them, and when they cannot be extracted with the fingers. But if the placentafill adheres, it 'is dangerous to ufe this or any other inftrument to extract the fame, as it ought to be left till it feparates naturally. If a fmall part of the fecundines is protruded through the os uteri, and pulled away from what ftill adheres in the uterus, the mouth of the womb contracts, and that irritation is thereby removed which would have continued the pains, and have feparated and difcharged the whole.
Thirdly, The large hook at the other end is ufeful to affirt the extraction of the body, when the breech prefents; but fhould be ufed with great caution, 10 avoid the diflocation oref fracture of the thigh.
$V$ Vide table xxix. Alfo part i. book ii. chap. iii. Book iii. chap. iii, fect. vii. and chap. iv. fect. ii. Part ii. coll. xii. Part iii. coll. xxxi. xxxii.

## T $A B L E \quad$ XXXVIII.

REPRESENTS, by $A$, the whalebone fillet, which may be fometimes ufeful in laborious cafes, when the operator is not provided with the forceps in fudden and unexpected exigencies.

When the vertex of the fœetus prefents, and the head is forced down into the lower part of the pelvis, the wo:nan weak, and the pains not fufficient to deliver it, the double of the fillet is to be introduced alony the fore part of the parietal bones to the face, and, if pofiible, above the under-jaw; which done, the whalebone may be either left in or pulled down out of the fheath, and every weak pain affilted by pulling gently at the fillet. If the head can be raifed to the upper part of the elvis, the fillet will be more cafily got over the chin, which is a fafer and better hold than on the face. If the face or forehead prefents, the fillet is to be introduced over the occiput. Vide Part i. book iii. chap, iii. fect. ii. Part ii. coll. xxiv.

In fuch cafes likewife the whalebone may be fupplied by a twig of any tough wood, mounted with a limber garter or fillet fewed in form of a long theath,-E. Gives two views of a new kind of peffary for the prolapfus uteri, being taken from the French and Dutch kinds. After the uterus is reduced, the large end of the peffary is to be introduced into the vagina, and the os utcri retained in the concave pait, where there are three holes to prevent the flagnation of any moifture. The fmall end without the os extemum has rwo tapes drawn through the two holes, which are
sied to four other tapes, that hang down from a belt that furrounds the woman's body, and by this means kecp up the peffary. This fort mayy be taken out by the patient when fhe goes to bed, and introduced again in the morning; but as this fometimes rubs the os externum, fo as to make its ufe uneafy, the round kind, marked $C$. are of more general ufe. They are made of wood, ivory, or cork, the laft covered with cloth and dipped in wax; the peffary is to be lubrieated with pomatum, the edge forced through the paffage into the vagina, and a finger introduced into the hole in the middle, lays it acrofs, within the os cxternum. They ought to be larger or fmaller, according to the widenefs or narrownefs of the paffage, to prevent their being forced out by any extraordinary ftraining.

Fide part i. book iv. chap. i. fect vii. Part iii. coll. xxiv.
D. Gives two views of a fernale catheter, to fhew its degree of curvature and difierent parts. Thofe for common ufe may be made much thorter, for conveniency of carrying in the pocket: but formetimes, when the head or body of the child prefles on the bladder above the pubes, it requires one of this length; and in fome extraordinary cafes I have been obliged to ufe a male catheter.

Vide part i. book ii. chap. i. fect. i. ii. Part ii. coll. x. numb. ii.

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\mathscr{T} A B C L E \quad X X X I X
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REPRESENTS, by $a$, a pair of curved crotchets, locked together in the fame manner as the forceps. It is very rare that the ufe of both is neceffary, excepting when the face prefents with the chin turned to the facrum, and when it is impoffible to move the head to bring the child fooiling, or deliver with the forceps. In that cafe, if one crotchet is not futticient, the other is to be introduced, and, when joined together, will act as forceps in moving and tuming the head more conveniently for the delivery of the fame. They may alfo be ufeful to affitt when the head is left in the uterus, and one blade is not fuffic:ent. There is feldom occaGon, however, for the fharp crotchet, when the head prefents; the blunthook intable xxvii. being commonly fufficient, or even the forceps, to extrait the fame after it is opened with the fcillars. Great care ought to be taken, when the fharp crotchet is introduced, to keep the point toward the fretus, efpecially in cafes where the fingers cannot be got up to guide the fame. The dotted lines along the infide of one of the blades reprefent a fheath that is contrived to guard the point till it is introduced high enough; the ligature at the handles marked with the two dotted lines is then to be untied, the fheath withdrawn, and the point, being uncovered, is fixed as directed in table xxxri.

The point, guarded with this fheath, may alfo be ufed infteal of the blunt hook.-b. Gives a view of the back part of one of the crotehets, which is twelve inches long.- - . Gives a front-view of the point, to fhew its length and breadth, which ought to be rather longer and narrower than here reprefented. $d$. Reprefents the fciffars proper for perforating the cranium in very narrow and diftorted pelvifes. They ought to be made yery frong, and nine inches at leaft in length, with ftops or refts in the midcile of the blades, by which a large dilatation is more eafily made.

The above inftruments ought only to be ufed in the moft extraordinary cafes, whers it is not poffible to fave the woman without their affiftance.

Vide part i. book iii. chap. iii. fect. v. Chap. v. numb. i. Part ii. coll. 31, 35.

## T $A B C L E \quad X L$.

AMONG the few improvements which have been made in the obftetrical apparatus fince the days of Dr. Smellie, the moft important are the alterations in the forceps, by which the inconveniences formerly attending the ufe of that inftrument are obviated, and the operation is rendered more fafe and eafy.

In contriving thefe alterations, the intentions were; r . That the large curves fhould correfpond as nearly as poffible with that of the pelvis. 2. That their points fhould be thrown forward, and made round, to prevent their hitching, or even preffing uneafily againft any part of the pelvis; and likewife to maintain their hold of the head whilt it is to be brought forward in that curved line of direction which nature obferves. 3. That an inverted curve hould be made toward the joints, whereby the perinaum may be faved from injury, the extracting force rightly conducted, and the handles at the fame time kept from prefing uneafily on the inferior and anterior parts of the pubes. 4. That their fubftance fhould be reduced as much as poffible, fo that they are not made flexible, or fo thin at the edges as to hurt the part. 5. That their clamsmay be made to prefs equally on the child's head, and fpread gradually from the joint, fo as not to dilate the os vaginæ too fuddenly. 6. That the clams be of a due breadth with the outer furface, a little convex, and extremely fmooth, that they may not prefs uncafily or hurt the woman. 7. That their length be fuch as can be applied fafely and commodioufly within the pelvis, and at the fane time fuit the different fizes of the heads as much as poffible.

The inftrument, executed according to thefe intentions, is called the Joort curved forceps. It confifts of two blades, or parts; each of which is diftinguifhed into the handle $A$.-the joint B. C.-and the clams D.E. See fig. 1. which reprefents one of the blades before it is bent into its perfect fate- $a$ a $a$, are three holes for admitting fcrews to fix the wooden handle.-Fig. 2. fhews the inftrument finifhed and locked, in which fate it meafures about if inches; and, when properly made, weighs about ir ounces troy. The clams mult be covered with the beft Morocco leather fhaved thin, moiftened with water, and fewed on with waxed filk.

Fig. 3. Reprefents a catheter lately preferred by practitioners. It is flaight, perforated with i 6 holes in four rows near the point, and terminated by a flight knob. The length is about 5 inches three -quarters.

# SMELLIE's MIDWIFERY. PART THE SECOND. 

## ^ <br> $\begin{array}{llllllllll}\text { C } & \mathrm{O} & \mathrm{L} & \mathrm{L} & \mathrm{E} & \mathrm{C} & \mathrm{T} & \mathrm{I} & \mathrm{O} & \mathrm{N}\end{array}$ <br> 0 F

## CASESIN MIDWIFERY.

C O L L E T I O N

of the Separation, rigidity, and diftortion of the bones of the Pelvis.
[Vide Part I. Book I. Chap. I.]

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N U M B . \quad I . \quad C A S E \quad 1 .
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## OF THE SEPARATION OF THE BONES.

AW O M A N, about the age of thirty-five, being in labour of her firt child, complained of a violent pain at the juncture of the ilium with the facrum on the right fide; and in time of the feverelt pains, imagined thefe parts were feparated from one another with violence. This circumftance was not at that time attended to by the midwife, who delivered her after a tcdious, though natural, labour; yet, even after delivery, the pain in this part exceeded all her other complaints. I was called on the fifth day, when I found the pulfe quick, full, and hard, her Ikin hot and dry, the lochia obftructed, a difficulty in her breathing, a pain and induration in one breaft, and the was totally deprived of relt by the anguih in that part of the pelvis. She immediatcly lof twelve ounces of blood from the arm, an emollient cly:ier was injected, and a large suantity of hardened fæces difcharged. In confequence of thefe evacuations, her back, head, and difficulty of breathing were relieved; but the pain in her hip fill continuing, warm ftupes were applied to that part, and bottles of hot water to her feet, and I directed her to drink plentifully of warm barley-water. By the fe means fhe was thrown into a profufe fweat, refted well that night, and next morning the fever was abated, while the uterus yiclded a copious difcharge; the pain and induration in her breuft were greatly dimimifhed, and the milk began to run out at the nipples; fo that the child, which had before made a fruitlefs attempt, now fucked with calc. The only circumfance that now hindercd her from lying quict, and fiveating, was the continuation of that pain in the pelvis, which to allay, I prefcribed an embrocation of the anodyne balfam, and the following bolus:

R Pilul. Matth. gr.viii. Sperm. cet. Эi. Syr. de meconio q. f. f. bolus: h. f. fumendus.

This fhe was obliged to repeat every night, and fometimes oftener, in order to procure reft and maintain the neceffary diaphorefis; and a clyfter was adminittered every third day. Ten days elapfed before fhe could be moved out of bed; and twice that time before fhe could fit up in a chair. When her right leg was moved, her fenfation was fuch, as if the ilium and facrum of that fide were toren afunder; and with my hand upon the part I could perceive a fenfible motion in thefe bones. At the end of the month, the was not able to walk or ftand, without being fupported under the right 2 rm by an affiftant or a crutch, and continued in that fiuation five or fix months; after which fhe found fuch benefit from the cold bath, that fhe could walk with the affiftance of a cane. She had feveral children afterward, and her labours were eafy; but they commonly, in fome degree, affected that part, which never recovered its former Atrength and ftability.

## $C A S E$ II. Communicated by Dr. Smollett.

A GENTLEWOMAN about the age of twenty-feven, of a flender make, thin habit, an llax fibre, was; in the eighth month of her firt pregniancy, incommoded in her walking by a pain and crackling about the pubes, which, when I examined, I felt a furprizing relaxation of the ligament that connects the fhare-bones; infomuch; that while the lay in bed on one fide, I could eafily move them in fuch a manner, that they feemed to ride each other: however; fhe felt no great inconvenience from this preternaturd extenfion, which certainly widened the pelvis for the more commodious paffage of the child; and the ligament gradually recovered its tone: fo that in two months after her delivery, the offa pubis were as firmly united as ever:

Although I myfelf have never peerceived fuch feparation in the bones of 2 living fubject, Dr: Lawrence once fhewed me the pelvis of a woman who died foon after delivery, in which all the three bones were feparated almoft an inch from one arrother. I likewife faw the fane phenomenon in a pelvis belonging to Dr. Hunter: Spigelius, in his Anatomy, lib. ii. caf. xxir. fays, he has feen fuch a relaxation, which however, he obferves, very rarely occurs. Dr. Monro; who, in his Ofteology, quotes this author and fome others, owns he had never met with this kind of feparation, either in the courfe of his practice or diffections; yet has had reafon to fufpect a relaxation of the ligaments refpecting the offa inmominata and facrum, in fome women of a delicate make, who, after hard labour, complained of pain, weaknefs, and a fort of jerking motion in this place; and though norhing extraordinary was perceptable by the touch, could neither fit nor fland withoult pain for the fpace of feveral months; nay, the weaknefs continuied for a much longer time, during which they imagined themfelve always finking down between the haunch-bones.

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OF THE OS COCCYGIS OSSIFIED AND BENT INWARD.

IHAVE of late, in a rery particular mamer, examined the os coc. cygis, efpecially in laborious cafes, and in women who were turned of thirty before the birth of the firft child; and have found it aetually
offified in two patients, the firf turned of forty, and the other about the age of thirty-three: but in neither of thefe cafes could I perceive that this rigidity retarded the labour; for, in both, when the head of the child came down to the os externum, it paffed along, and the women were as eafily delivered as thofe in whom the coccy $x$ is moveable, though both children were of an ordinary fize. The coceyx and ifchia bcing much lower than the pubis, the back pirt of the head is commonly pufhed out below the laft, by that time the forehead is preffed againt the coccyx; for, in meafuring from the brim of the pelvis, we find that the pubis, being much fhallower than the other bones, allow an eafy paflage for the occiput to come out from below the fame; for which reafon an offified coccy $x$ feldom prevents the delivery, unlefs the head is larger than common, or the coccyx is bent inward in an extraordinary manncr.-Vide tab. i. ii. and iv.

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N \cup M B . \quad I I .
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## OF THE NARROW AND DISTORTED PELVIS.

ALTHOUGH cafes of this kind are more naturally inferted among the operations of midwifery, I fhall mention a few in this place, in order to preferve the regularity of our plan.

The moft common diftortion of the pelvis is from the protrufion or jutting forwards of the laft vertcbra of the loins with the os facrum, and fometimes of two or three of the loweft vertebral bones. I have been concerned in a few cafes, and in particular was called to three women in whom the pelvis was fo narrow, that the diftance between the loweft vertebra and the pubis did not exceed two inches and a half. The firft I delivered four times; but found it impofible to fave any of the children, cxcept one; which was fmall, and even in that the fhoulder was diflocated.
$V$ ide collect. xxxiv. and the third table of anatomical prints.
The fecond was twice delivered by another gentleman, and three times by myfelf; and only one child was faved, by being born in the eighth month, of a very fmall fize. Both thefe patients were fimall in fature, and diftorted in the fpine. The third, who was a tall woman, but had been ricketty for two or three years in her infancy, I delivered three times with great fatigue, but could fave none of the children that were large. At laft, however, the bore a live child in the feventh month. Vide coll. xxxr. alfo table xxvi. and xxvii. I have been called to feveral others, where the pelvis appeared at that part not to exceed three inches, or three inches and an half. When the children were large, it was impolfible to fave them, either by the forceps or by turning; but when I was called in time, and found them fmall, oreven of a middle fize, the patient was commonly delivered by one of thofe methods, if the labour-pains were not fufficient.

I have been feveral times befpoke to attend women in their firlt children by their friends, who were apprehenfive that they would have difficult or dangerous labours, becaufe they were diftorted in their barks. Eight patients, in thefe circumftances, I delivered in the courfe of a jear, and fix of them had eafy natural labours; the other two were more difficult, which proceeded from the large fize of the children, and the fmall make of the mothers. In a few cafes, I have found one or two bones of the facrum jutting inward to fuch a degrec, that the head of the child paffed with great difficulty ; in two of thefe I ufed the forceps, and at one time was obliged to dilate the bones of the cranium, as the lower ends of the offa ifchia were icarce three inches afunder.

## COLLECTION II.

## Operations performed upon the external parts.

(Vide Part i. Book i. Chap. ii. Sect. i.)

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C A S E I \text {. }
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## PRETERNATURAL SIZE OF THE NYMPHA.

IW.AS called to a young woman, who, by a fall from an hay-loft upon a poft below, had bruifed the labia pudendi. Befides an inflammation of the parts, I found one of the nympher fo preternaturally large, as to hang down three inches without the labia. Her mother was furprifed to fee fuch an extraordinary excrefcence, which the daughter had concealed from her knowledge, and defired me, after the inflammation was removed, to remedy, if poffible, this inconvenience, as the girl was to be married in a little time. The excifion was accordingly performed with great eafe, as that part next the labia was very thin. The parient could recollect no caufe to which this excrefcence might be owing ; but faid, fhe firf perceived it when the was fixteen years of age ; that it gradually enlarged, and frequently gave her great uneafinefs, by itching, and being fubject to pricking pains. The outward edge and extremity was about an inch thick, extending two inches from the upper to the under part. The caufe did not feem to have been venereal, but merely a fwelt ing of the glands.

## $C \quad A \quad S \quad E \quad I I$.

IWAS prefent at the extirpation of the nymphe, which were excellively large and pendulous, in a woman who alledged, that the diforder proseeded from a venereal taint, of which the had been formerly cured.

Mauriceau, in Obfervation 313, mentions his taking off by ligature 20 clongation of the carunculx myrtiformes.

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C A S E \quad I I .
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## OF AN OBSTRUCTED HYMEN:

AW O MAN brought her daughter from the country for my advice. he had been a year married, and, in her own opinion, was in the eighth month of her pregnancy, although the was regular in the difcharge of the catamenia. She affirmed the had frequently felt the motion of the shild, and was grown much bigger than her ordinary fize. I examined the abdomen, but could not feel the circumfribed tumour of the uterus; indeed fhe was corpulent, fo that the belly was large, though foft. I then di efted her to lean foryards on the back of a chair, and feating myfelf behind, attempted to examine the uterus by the vagina, when Ifound the entrance obftructed.

Through the perfuafion of her mother, the confented to have the parts infpected ; and being laid fupine upon a ${ }^{\text {a }}$ couch, I feparated the labia, when I perceived the hymen in form of a crefcent, from the middle of which proceeded a kind of ligament attached to the lower part of the meatus urtinarius, leaprigg a palfage on each fide, capable of admitting a
probe into the vagina, and of yielding paffage to the menftrual difcharge, but effectually obfructing the introduction of the penis. Having fnipped this attachment afunder, I introduced my finger into the vagina, and felt the uterus rifing up before it, as in the unimpregnated ftate, without any fenfible weight or ftrctching of the part. From this circumftance I conclided, and affured her, fhe was not with child ; then introduced a large thick tent, dipped in red-wine, and fecured it with a bandagc. After this operation, fhe foon became pregnant, and has fince been delivered of feveral children.

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C A S A \quad I V
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AWOMAN brought to me a girl five or fix ycars old, whofe hymen was imperforate, though it had been twice opened by a furgeon, but the li. s of the incifion had united again.

I miade an opening in the fame place with a biftory, which I gradually dilated, firtt with my little finger, and then with the fore finger, until I could touch the os uteri; then, fnipping with a pair of fciffars a fmall portion of the hymen that remained next to the fronum, I introduced a large tent, which was kept in the part by compreffes and a proper bandage.

Hildanus, in Centuria 3, Obferv. 60, gives three examples in which the paffage was thut up by a membrane.

The firlt was a girl of fixteen, who was once a month feized with violent pains in her belly, faintings, head-achs, and fometimes epileptic fits; which, on a copious bleeding at the nofe, vanifhed, and did not return tull the next period.

She had refufed feveral advantageous matches in confequence of there infirmities; which being communicated to our author, he infpected the pudenda, and, finding the vagina fhut up by a ftrong membrane, he directed an incifion to bc made; but the young woman being terrified at the thoughts of the knife, refufed to fubmit to the operation.
..The fecond was a young woman at Paris, who being married conld not admit the embraces of her hufband; and he, on that account, fued for a divorce ; but, as the fufpected herfelf with child, feveral eminent furgeons examined the parts, and found the entrance to the vagina fhut up by a itrong callous membranc, in which were fmall openings, fuficient to allow the menftrual difcharge.

This membrane being dilated, and proper peffaries and applications ufed to keep the paffages open, the hufband wis fatisfied, and the woman was in fix months fafely delivered of a full-grown child.

Mauriceau likewife, in Obfervation 489, gives an account of a woman having conceived, and been delivered of a child, though the hymen had not been broken in coition.

The third cafe of Hildanus nearly refcmbles the following, communicated by Dr. D. Monro.

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C-A \quad S, E \quad V .
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AGIRL of fifteen had all the fymptoms of the menitrual difcharge, which continued to terze her reguminty every month, though nothing. was cvacuated from the uterus. When fhe attaincd the age of ningteen, her belly was confiderably fwelled; and finding a large tumour in ner.pu* dendas
denda, the applied for relief to his father, who immediatcly perccived it was occafioned by an imperforated hymen. This he forthwith opened with a lancet, which was inttantly followed by a difcharge of about three pints and an half of blood, of the confiftence of butter-milk, and colour of grumons blood, though without the leaft fimell or foetor: about half a pint of the fame fluid wals evacuated before morning, and the girl did well.

## $C A S E V I$. <br> Communicated by Dr, George Macauly, Phyficiaṇ to the Lying-in-Hofpitạl in Brownlow-ftreet.

IWAS defired to a vifit a young woman, about nineteen years of age, of a large make, and full-breafted, who was in exquifite pain, and could not make water. Her belly being very much fwelled, her pulfe feverifh, and her pains exactly refembling thofe of labour, I ordered her to be bled, a clyfter to be injected, and prcfcribed fome other medicines. Next morning, I was informed more crrcumfantially of her illnefs by her mother, who faid the had been complaining for fome months, though pretty well at intervals; but now there was fomething forcing down at her privy parts. In confequence of this information, I examined her in a curfory manner, becaufe I had called in on my way to another patient, to whom I was fent for in a hurry. I found the belly very much diftended, and, endeavouring to pafs one finger into the vagina, felt what I then took to be the membranes, with the waters pufhing pretty low down.

From this circumfance I concluded the was in labour, and left her for the prefent, after having intimated to the mother that a little time would. in all probability, determine the nature of her daughter's complaint. In my return I called again, and found the girl in exquifite agony, thougla matters were not at all advanced, during three hours which had elapfed in may abfence.

Then it was I thought of enquiring whether or not fhe had cver undergone the menftrual difcharge, when, heing anfwered in the negative, I examined more carefully, and found what I had miftaken for the membranes was no other than the imperforated hymen protruded by fome fluid as far as the extertial labia.

Having, upon this difcovery, fignified the only and certain means of cure to the patient and her mother, and they confenting to the operation, I divided the thick ftrong membrane with a knife, and evacuated, as near as I can guefs, two quarts of thick black blood. As it flowed out, and the great preflure was removed from the neck of the bladder, the urine was difcharged, and the poor girl faid fhe found herfelf in heaven.

She was afterwards feized with fhiverings and faintings, for which I prefcribed cordials and the bark, upon a prefumption that the parts, from the long-continued preffure, might be difpofed to mortification.

She recovered very faft, and was married in fix months after the aperture was made.

Ruyfch, tom. i. obfervat. 22, fays, hc was called to a woman in labour, whofe hymen was entire, and prevcated the delivery of the child, by whofe head it was diftended. An incifion being cautioufly made, he perceived another thick membrance farther in the vagina, which being alfo opened, the woman was delivered.

Saviard, obferv. iv. relates the cafe of a young lady whofe vagina was obtructed by a membrane, which being cut, two pints of a ftinking mat. ter, of the confiftence of leys of wine, were difcharged.

He likewife gives an intarice of the entrance of the vagina being fo much contracted by the indifcreet ufe of aftringents, that a probe could hardly be admitted : but this opening was enlarged upon a directory, fo as to admit a tent an inch anc a half in circumference.

## COLLECTION III.

of the thickness of thee uteruu in time of gestation.

4OME years ago (wide part iii. col. xyxix. cafe i. and ii.) I had opportunities of opening two women who had arrived at their full time, but died of vialent foodings, before any afiftance could be procured to deliver them. The membranes wereftill unbroke, and borh uteri kept at their full extent by a large quantity of water, When I opened them, with intent, if poffible, to fave the children, 1 found each about a quarter of an inch thick. This is likewife the flate of an uterus now in ray poffeffion, taken from a woman who died in the eighth month of her preguancy, before the membranes were broke.

1 have affifed in opening feveral women who died after delivery, int konfequence of exceffive weaknefs and violent floodings. When the aterus was not mach contrafled, it was not much thicker than that I have deferibed; but ia thofe who died a few days afte delivery from obitrocrions of the lochia and a fever, the netuis was contracted to a fmall fize, and generally from one to two inches thick: 1 mutt, howeper, except one cale of a woman, who feemed to have been feren or eight months gaue with child ; yet the uterus was contracted to a fmall bulk, though, when fretched, it did not exceed the eighth or tenth part of an inch in thicknefs at the fundus. - Vide Dr. Garrow's letter, coll. xiiio namb. i.

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\begin{aligned}
& \text { COOL I E C T I O N IV, } \\
& \text { Of obftructions of the catamenia, the immenderate flux of the } \\
& \text { menjes, and of the fluor albus, }
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THE CATAMENIA OBSTRUCTED.

AGENTLEWOMAN turned of twenty, who had always enjoyed gond health and a regular difcharge of the menfes, happened, during that evacuation, to fall into a river in very cold weather, and was obliged to ride a full mile before the reached her home. By this accident the catamenia were entirely obftructed, and I was called to give my advice and affitance. When I arrived at the place, the had been in bed fome hours, and complained of violent pains in her head and back; her pulfe was quick, fhe breathed with difficulty, and icenied a little delirious.

It was fome time before I knew the difcharge was upon her when the fell into the water, confequently I was ignoraat of the obiltruction. She was. immediately bled in the arm, to the quantity of twelve ounces; but tinding no relief from this evacuation, the loft eight ounces mare, and faisted afray; ; she pains, however, and difficulty of breathing foon abated, and a profufe fiveat enfued. This was encouraged by frequent draughta of weak white-wize wher; the pulfe became more calm and regular, the delirium graduslly ceafed, the enjoyed a profound neep, and next moraing feemed to be in perfect health.

I was then informed of the obfruction; and, underftanding the was coftive, prefcribed a clyfer, which had a favourable operation: that fame evening I directed her feet to be bathed in warm water, and defired the might fit over the fteams of it, fo as that the vapour fhould foment her lower parts.

Next day the was gently purged with an infufion of fena and namna; but the difcharge did not return, although the was perfectly eafy, and froe from all complaints, but that of being low-fpirited from the evacuations the had undergone. I recommended warmth, gentle exercife, and food or eafy digettion, in hope that, as the was of an healthy conftitution, nature would reltore the regularity of the difcharge. Nor was I difappointed in my expectation: at the end of four weeks, the menfes appeared as ufuai, the was in a little time married, and has never fince had any complaint of that nature.

It would be equally tedious and unnecelfary to infert a number of fuch cafes which happened in the courfe of my practice. I thall only obferve, that gentle evacuations, exercife, and a low diet, generally remove thofe ob:tructions in the firt four or five months; and, unlefs the fluids acquire a wrong turn by fome other hind of irruption, fuch as a difcharge of blood from the hansurrhoidal veins, fomach, lungs, nofe, and fometimes, though verg feldom, through the hairy fcalp, cuticle of the legs, and other parts; I fay. except when diverted by fuch preternatural hamorrhages, the menfes comsoonly return, or elfe the patient is afficted with thofe complaints which proceed from a weak and languid circulation of the fluids. In this cafe, the method recommended above muft be altered, and the obitruction removed by taedicines that quickened the circulation of the blood; fuch as gentle emetics, bitter and aromatic infofions, preparations of itecl, chalybeate waters, riding, and nourihing diet. In a word, when the obftruction is owing to plethora, rigidity, or tenfion, evacuations are proper; but when it proceeds from a weak and relaxed habit of body, thofe things that nourifh and ftrengthen the conlitution are mott effectual. Great attention is therefore required to confider thefe different circumftances, and experience so judge of the indication, efpecially as almort all the complaints of urmarried women proceed from the irregularity of this difcharge.
During my general practice in the country, when my alvice was follicited by female patients who laboured under either an obitruction, immoderare difcharge, or irregularity of the menfes, efpecially if the diforder was of long continuance, 1 fucceeded beft by following the methods recommended by the late learned Dro Friend. I fhall therefore infert a fummary of his cales, with regard to the fijmptoms and practice ; and refer the reader to his Emmenologia for his theory of thefe diftempers.

## $C A S E I$.

AYOUN G woman; eighteen years of age, and till that time free from the menfes, complained of a fharp pain about the loins, knces, and ankles: She alfo laboured under a dyfpncea, naufea, and gripings of the fomach $\vdots$ upon the leaft ftirring there was a palpitation of the heart. Her countenance was of a florid colour, her pulfe weak and flow. Thefe fymptoms had contiriued violent for almoft fix months. He firf ordered the following catharic:

Ex Calomelan. Эi. Refin. jalap. gr. v: tartar. vitriolat. gr: iv. m. fo pulv. cap. mane in conferv. rofar.
After the operation of the above medicine, fhe was ordered the following electuary and infufion:
 phur. p. p. $3_{\text {fls. Rad. gentian, curcum. pulf. ä zij. Syr, caryoph: }}^{\text {g }}$ q. f. ni. f. Elect. cap. q. no m. ter ind die, hor: med. fuperbib. cochl: v. infuf. feq.

Pe Limat. chalyb. ${ }^{3} j$. fs. infunde in cerevifix tenuis to iij: per triduum; deinde adde rad. gentian. incif. $\bar{j}$ fs. Rub. tinctor. curcum. $\bar{a}$ jij. fumitat. Abfynth. vulgar. centaur. minor $\bar{a} \mathrm{~m}$. i. bac. junip. $\overline{3}$ fs: Sem. cardamom. min. cubeb. $\bar{z}$ 弓j. Mem. fiat infuf. per diem. In colature quolibet hautu cap. gt. xx. mixtur. feq.
B Sp. fal. ammon. elix. p. p. $\bar{a}$ jij. m.
He defignedly omitted bleeding, becaufe of the weaknefs of the patient.

Octoher 28 (three weeks afterward) in the afternoon, fhe complained lefs of her ftomach, the pulfe was ftronger, and her frength much increaled.

October 30. The menfes came down of a laudable colour. The pain at her loins and ankles immediately vanifhed. The flux continucd eight days, during which fhe was forbid the ufe of her medicines; which being however repeated, after another week, the menfes flowed regularly again at the next period, and the patient entirely recovered her health.

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C & A & S & E & I I .
\end{array}
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AW OMA N about thisty years of age, had not had the menfes for the fpace of two years. Upon the detenfion of which fhe was feized with a dry cough, violent dy fpncea, palpitation of the heart, pain in the head, a vertigo, lofs of appetite, indigeftion, and inflation of the fomach; fometimes a vomiting, decay of itrength, night-fiveats, a viciffitude of heat and cold, and a trembling; and fometimes the blood broke forth at the noffrils. The pulfe was very weak.

He fays the indications of cure feemed to be thrcc.
I. To refore a good digeftion in the fomach.
II. To increafe the impulfe of the blood.
III. To relax the uterine veffels.

To relicve the pains and decay of ftrength, he ordered the following cardiac:

Bx Sp. fal. ammon. tinct. croci. Laud. liq. $\bar{a} 3 j$. m. gt. xxx. fopius in quovos vehiculo.
By the ufe of thefe things, the pains very much abated, and her ftrength was recruited.

November $i$ (two days afferward) the took the eathartic preferibed in the former cale, which purged her fix times, and eafed the dyfpnoca.

November 3, fhe made ufe of the electuary and infufion deferibed in the former cafe; not neglesting, in the mean time, the cardiac mixture. The following eniollient fomentation was applied to the region of the uterus to relax the veffels:

R Rad. althæx. Lil. alb. $\bar{a}$ 亏̄ij. fem. Lini, fenugrec. $\bar{a}$ ziij. Flor. camameli. ancth. āp. i. Marjoran. m. i. Bulliant ex vin. \& aq. part. xq. liguor fit pro fomentatione bis in die applicand.
Norcmber S. The pulfe was fomewhat Atronger ; but hardly any change in the fymptoms.

November 15. Nothing new, except that the appétite feemed to return, and the nocturnal fiveats vaniifhed.

Norember 2.2. A whitifh humour flowed from the uterus, which ceafed after five days. :He remarks, that there is frequent mention among authors of pallid menifes.

December f. The fymptoms, although mich milder, were not however yet removed. The following purge was prefcribed:

Rx Pil. Ruf. 3 fs. Refin. jalap. gr. iij. Ol. falfafr.gt. i, Balf. Peruv. q. f. m.f. pil mediocr.

She likeuife returned to the nfe of the elequary, infufion, and mixture; which being duly taken, the puife grew ftronger, and her ftrength was recruited:

- December ng. The menfes were brought down of a pretty red colour, which continued for three days. Upon their breaking forth, the fymptoms were fo much abared, that fhe complained only of fome fmall difficulty in her lareathing, and pain of her head. But repeating the infufion, hes health, at the month's end, returned with the catamenia.


## $C A$ S IIH.

ALAUNDRY-MAID, of a fanguine hahit, aged twenty-four years; caught coid, and by wafhing her legs in cold water in time of the menfes, they were wholly fupprefled for the face of one year ; yet without any remarkable detriment to her hiealth; which he imagined proceeded from hier hard-labour and exercife. But at the year's end fhe was attacked with moft of the fymptoms as in the fecond cafe; only there arofe a hard tumour on the tibia, for which he ordered a vein to be opened in the arm. As that did not relieve the tumour, he ordered a cathartic, and a bitten chalybeate infufton, with the emollient fomentation.
Octobor 28 (three weeks afterward) the purge was repeated, and the tumour beeame milder.

Norember 6. The pulfe increafed with the ftrength, and, to prowoke the menfes, the faptiena was opened. 's

November ir. The menfes, thowed in a fmall quantity. Her foric cobour returned again, and the tumour, with the other fymptoms, vanifhed.
He gives three other eafes. The firt two had their complaints from the menfes being irregular and in ton finall a quantity; but the third was that of a married womin, about twenty-five years of aye; the had a decreaic of the menfen for almot a year, but a ontal fuprefifion for the three laft pe-
riods．All thefe he treated according to their different complaints，but brought then regular principally by the ufe of chalybeate medicines．

I have had many patients，who，in obftructions of the menfes，if they were attacked with the difcharges from other parts of the body of diffetent kinds，either periodically or continued，have fruttrated all attemps to bring back the catamenia，and prevented conception．If the difcharges were from the lungs，fomach，and other vifcera，they frequently proved fatal to the patients ；if from the external parts，as hamorrhages from the nofe， hairy fcalp，legs，or iffues in different parts，although they partly prevented the removal of the obftruction，yet they kept the patients in a tolerable fate of health．Sckenckius，in his Obfervationum Medicinalium，lib．iv．de Conceptione， $\mathrm{p}^{6} 61$ ，gives feveral cafes from different authors，of fome women who conceived before they had the menfes，others who bore feveral children，and never had any fuch difcharge．

Mr．Pearce，in the Bath Menoirs，chap．xix．from p．187，to p．190， gives four cafes of girls labouring under the chlorofis，or green ficknefs， who，after trying many medicines in vain，were cured by drinking the Bath waters，and frequently bathing in them．

Vide Hildani，cent．v．obferv．xli．

## $N U M B . \quad$ ．$\quad C A S E \quad I$ ．

## IMMODERATEFLUXOFTHECATAMENIA。

IWAS called to a young woman about the age of eighteen，who was verp． much weakened by an immoderate difcharge of the menfes．She had been of an healthy contitution，and regular in her monthly evacuation for the fpace of a whole year；but，about fix months before I faw her，the was，in time of the difcharge，over－heated with dancing；in confequence of which the menfes flowed to fuch a quantity as threw her into fainting fits，fo that fhe was obliged to be carried home and put to bed，where the was fupported by a nourifhing diet，and in ten days was free of the dif－ charge．Yet，every three weeks after this period，fhe was attacked in the fame manner，though in a lefs violent degree，and continued ill about the fame fpace of time．By this excefs of evaeuation，fhe was reduced from ant healthy conftitution and florid complexion，to a weak habit of body and pale vifage；and，when I was called，actually lay in a fwoon，occafioned by the great difcharge；and her puife，which at any time was low，I could now bardly feel．As fonn as fhe could fwallow，fhe took a draught of wine and water，in which fifteen drops of liquid laudanum were diluted ；then the was put to bed，and in half an hour the violence of the difcharge was con－ fiderably abated；when I introduced into the vagina a bit of fponge，dipped in a folution of alum，wine，and water．Having confidered the cafe dur－ ing this period，I directed her to take two fpoonfuls of the following prefcription，as often as the violence of the difcharge fhould return：

R Infufio rof．rub．亏̄vi．Elix．vitriol．laud．liquid．ā gut．xv．m．
Ilikewife directed the fponge to be continued，and frequently moiftenced with this decoction：
$R$ Cort．granat．querc．flor，balauft．rof．rub， $\bar{a}$ zij．Coquantur in aq． fontan．ad．亏yi．In colatura folve alum． $\mathrm{z}_{\mathrm{fs}}$ ．Kadde vin．rub．zij．
Next day fhe was mucle eafier，the difcharge being diminifhed and of a pale colour．For drink，I prefcribed chicken－broth，in which rice had been boiled．；with aftici－milk to be taken morning andercning ：for diet，yeal， chickens．
clicken, bread-pudding made with the whites of eggs ; and for change of drink, barley-water in which gum-arabic was diflolved, and water-grucl with eggs, in the manner of egg-caudle. Though fhe recovered her ftrength by this method, the difcharge returned at the end of the three weeks, but not in fuch quantity, nor for fuch a length of time. I direfted her to ufe the fame regimen, with moderate excrife; and after two or three periodical evacuations of the fame kind, fhe perfectly regovered hor health and bloom.

The fame method I have fuccefsfully ufed with a great number of patients, both married and unmarried, only varying the medicines and the dict, according to the violence of the difeafe and conftitution of the patient; and occafionally prefcribing the cort. Peruvian. pilul. gummos. Spa, Bath, and Briftol waters, the two laft kinds efpecially to be drank at the wells.
Thofe who are much weakened by floodings in mifcarriages, or even in delivery, had fometimes, for two or three periods after, vcry large diifcharges, and were relieved by the means fecified above.

What follows, concerning the immoderate flux of the menfes, is copied from Dr. Dale's tranflation of Friend.

## $C A S E \quad I$.

ACERTAIN woman, after a lying-in, was feized with an immoderate flux of the menfes, which continued for fix years; in the latt wo years the blood flowed almoft daily, concreting fometimes into grumi of the bignefs of an egg. She laboured under a very great weaknefs and drought, and was alfo fometimes feverifh; with a violent and continued pain in the abdomen and region of the uterus. She was feized with an anxicty at her heart, and fometines alfo with a fyncope. The pulfe fcarce, perceptible. The intention of the cure fecmed to be, after the floppage of the fluz, to reftore the ftrength, which was extrencly much decayed. But in checking the flux, fince ithought proper to abfain from repellents, becaufe their ufe feemed to be forbid, by the ftrength being fo exceffively weak, I trufted wholly to aftringents, and them J ordcred as well internally as externally.

PX Cortic. granat. 3 fs. Rad. tormentill. 3 j . Flor. rof, rubr. balauf. $\bar{a} \mathrm{~m} . \mathrm{i}$. coq. in aq. fcrrar. 拈 iij. ad confumpt. Jb ij. Colatura fit pro fomentatione, his in die parti affectx tepide applicand.
For her common drink the ufed the decoct. alb. in tb ij , whereof were boiled cinnamoon 3 ij .

Internally was applied the tinet. antiphthifica, fo much commended by Etmuller, drawn from facchar. fatur. $\&_{i}$ vitriolum martis, with 1 p. vini. Of the tincturc, the took twenty drops in aq. plantag. feveral times a day. When her pain or watching was troublefome, the took twenty drops of laud. liq. 'Two days afterward (Feb. 3) the flux was ftaycd ; and, left it might poffibly return, the fomentation was refeated daily to February 6. Gut the flux being thus reftrained, the pain and weaknefs feemed now to be regarded. I took, therefore, from the dieetetic medicine, broths and good nourifhing foods; from the phamaceutic, the following mixture:
p. Tinct. croc. laudan. liq. Sydenh, $\bar{a} \overline{i j}$. camphor. in fp. vini. $\frac{\Sigma}{5}$ fs. Diffolut. $3 \mathrm{j} . \mathrm{m}$. cap. gut. xxx . Scxies in die in aqua cinnam. fort. $\mathcal{E}$ hord, a p.x- with which her ftrength was very much repaired and
her pain abated. - Feb. 8, a fort of membranous pouch hung down from the labia pudendi, which yet adhered fo firmly toward the uterus, that it could not be extracted from the vagina. It had alfo a very ill fmell; and indeed, at firt fight, the inner coat of the vagina feemed to be fallen down; for I the ${ }^{l}$ efs fufpected it to be any remains of the placenta, becaufe the woman denied that the had becin brought to bed for fix ycars. But when, upon confidering the itench and the pain, I began to entertain. fome fufpicion of a placenta, I thought it proper to examine into the matter a little more narrouly; and therefore enquired of the woman, whether the had not mifcarried fince that lying-in. She confeffed fhe had. been with child about two years fince, and that, being ter ribly frightened, as fhe returned home in the night-time through the firects, She had mifcarried by the way; but that, after the was rcturned home, fhe fent for no midwife to examine whether any thing was lefi in the uterus or not. From that time alfo the pain took its rife. The difcalc having becn thus enquired into, the indication fecmed to be this; inamely, to reftore theforce of the uterus and abdominal mulcles, fo that it might expel any remains of the placenta; and becaufe the mixture which was ordered her conduced very much to this end, the took forty drop sof it feveral times in at day; by which madicine her firits were fo recruited, that, Fcb: 10, fome part of the placenta was thrown forth, not only of a very. ftrong fimell, but plainly putricl. Feb. in, another portion was alfo thrown forth of the fame ill fcent. From that time there yere no. marks of that membronows fubfance within the vagina: in like manner alfo was the whole pain immediately allayed.-Fcb. 13, fhe had fo far recovered her ftrengih, as to, be able to fit up for fome hours, after having been confined to her bed almoit a month. She madc no complaint of any thing but her weaknefs and lofs of appetite. the took daily of her mixture, from which fhe found very great relief.-10. 17, the flux returned; which I was unwilling to check, becaufe I found it yery moderate, and attended with no ill fymptoms; for it appeared to be the natural and ordinary evacuation of the menfes; which was therefore ended on the fourth day:-Fcb: 23. That I might farther piovide for her trength, the following things wore pre-, ficribed:
 $\bar{a} 弓$ fs, mo. cap. coch -rvi. ter in die.
Feb. 25, her appetitc was reflored. Nothing was. wanting to complete lier-health but ftrength; which, however, upon tivice repeating the decoction, was alfo happily renewed.

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C^{\cdot} A \text { S } \quad E \quad I \%
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AWOMAN of a full habit, and who had been ufed to have too great a difcharge of the menfes, fell into an immoderate flux, from exceffive excrcife, fo that the menfes came down in a large quantity ; at firlt, indeed, for fix days, and afterward for twelve.

When fhe had haboured under this indifpofition the whole fummer, her ftrength was very much caft down; fhe was often feized with a fyncope and fipafm; her feet fwelled; her counthanae almolt hippocratic; the blood being very thin, did not fow guttatim, lut, as it were, in a continued ftream. When I firit vifited her, the flus had continucd four य.2.

The indication, therefore, of the diftemper reauired that the flux fhould he imnocdiately Itopped. That this m:ght be eifected, the fanie fomentation was 'applied as is ciefcribed in the firt cafte!.

At the hour of :en, the took the following hypnotic:
E. Trochife. Gordnn. 3 fs. Laudan. Lond. gr. ii. Mucilag. gum, Arab, q. f. m. pil. exigua. cap. iii.

By the ufe of theie fhe flept very quietly. -The next day (Sept, in) the menfes fill fowing, this clectuary was prefribed:

R Conferr. ref. iub. $\bar{j}$. Bol, arno. croc. mart. affring. $\bar{a}$ _j. Mafich. ter. Japan. $\overline{\text { a }}$ Эij. Spec. diatr. fantal. Эiv. Syr. e Fympht. q. I. mo f. clect. car. q. n. m. $4^{\text {ta }}$ quaque hora, fuperb. coch. 5 . julèp. feq.
R. Aq. fuerm. ranar. plantagin. cinnam. hord. at ts. iyr. e coral. q. f. m. f. julep. cap. etiam. ter in die fuir. vit, ivi. gt. xi, i! $q$ quavis vehiculo.
Repet. foment. \& pilul. præfcript.
Sept: I3, the flux fill continued, although only guttatim ; which yet, upor her duly taking the medieines, on Sept. 15, wholly ctafed.
Now, therefore, the whole method of cure femed to turn upon this point, namely, to ftrengthen the veffels and prevent the ravefaction of the blood. Tr anfwer the firf intention, the fomentation was every day repeated; the ufe of glutinants and b.lfanics feemed fuficient for the fecond : altringents being therëfore fét alide, the following method wàs purfued:
 . cap. 亏̄ir. quater in die.
Ex Balf. capir. polychreft. $\bar{\sigma} \bar{弓}^{2} \mathrm{j}$. cap. gt. xxv. hora decubitus in confers. rofar, rub.
Upon the taking of thefe remedies, after the interval of almoft three weeks, OAt. 5, the menfes retursed, and continued fo for fix days. But the laft prefcriptions being repeated the next period, the flux was terminated the fourth day; which flopping hitherto within the fame fpace of tinae, the woman was thereupon perfectly recovered.

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C A S E \quad \text { III. }
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AW OMAN thirty-fix years of age, after a mifcarriage, had a flux of the meṇfes during fourteen days, for three perions; afterwards for. almoft three manths they eame down daily. By which flux fhe was fo weakened, that fhe could by no means walk, and but fcarce fand. She drew her breath with fo much difficulty, thit the was in danger of being fuffocated. She was feized fometimes with a fineope, and fometimes with an hyfferie fit; fo that fhe lay for an hour or two as if the was dead. The fame pale colcur and leannefs as in confumptive perfons; the pulfe weals and intermitting.
The indication of cure feemed to regard, firf, the ftopp-ge of the flux, and then the reftoring of the itrength. 'The fomentation was therefore made ufe of which is defritied in the irff eafe; which indeed I generally found to be efficacious. Invardly the took twenty drops of firit. fal. dalc. in decoct. tormentilı. four times a day.-Four days afterward (May 25) the flux fonething abated, although it broke out again every day. The following emulfion was ordered, in the roum of her common drink:

R. Amygde

Ex Amygd．dulc．excorticat．そi．fem．iv．frig．maj． $\bar{a}$ zij．quibus in mor－ tario contufis affund．aq．hord．It ij．Colaturx add．fal．prunell． $\mathrm{s}^{i j}$ ，fyr．althæx q．f．m．
May 30 ，the flux was flayed；however，it broke forth again the next day in the evening．But by the continual ufe of the remedies prefcribed， the flux was fo regulated，that from June the 3 d to the 9 th，it was wholly flopped；afterward，at the month＇s end，it returned at the ufual periods． The flux being therefore reftrained，and the canals fufficiently clofed up， the other indication was purfued after this manner：

Be Cortic．Peruv． 3 j．Rad．zedoar．${ }_{3}$ fs．Cochinell．zij．Digerantur cum vin．alb，咕 ij ．tepide per triduum．Liquoris filtrati cap．ter in die $z_{i j} \mathrm{j}$ ．in quolibet hauftu inftillentur tinct．ferpent．virg．gt． 20 ，
At night，becaufe fhe was often fleeplefs，and fometimes alfo hyfteric， the took the following paregoric pills ：

Px Galban，col． $\bar{j}$ j，fpec．diambr．caftor．camphor． $\bar{a}$ Đfs．Laudan． Lond．Эi．m．f．pill．20．cap． 2 ante decubitum fuperb．tinct．præ－ feript．coch． 4.
Let her dict confift of very nourifning food，
July 19，her ftomach，which had been hitherto difordered，was mucly firengthened，and her ftrength alfo fonsewhat confirmed．At the beginning of Auguft，the woman，by following the nethod prefcribed，was perfectly recovered．

Forefus de Mulierum Morbis，lib．xxviii，has nine obfervations on the too great flux of the menfes．

Fide Zacut．Lufitan．tom．i．lib．iii．p．479，and tom．ii．lib．iii．p． 48 \％．
Fide Mr．Stead＇s cafe in the following number．

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N \quad U \quad M \quad B: \quad I H .
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## OF THEFLUORALBUS，

$A$$S$ Hoffinan has treated largely on the fluor albus，I have inferted an abridgment of the following cafes，from that part of his works where he treats De cachexia uterina，five fluore albo．

## OBSERVATION II．

IN a woman about thirty years of age，of a tender conftitution，living near the fea a fedentary life，and on a diet of difficult digettion，as fea－finh， efpecially oyfters，the difcharge of the menfes had for a year been irre－ gularand in fmall quantities；she was much afflicted with the fluor albus； her countenance began to turn pale，with great laffitude both of body and mind．He firttordered a vomit of rad．ipecacuanhz 3 fs，tartari vitrioli Dis．to be taken twice a week；after that to take，once a week，a dofe of opening pills，which were compofed of fome bitter extracts，gums，and shubarb．；and，in the intermediate days，three or four ounces every morn－ ing of the following fomachic wine ：

BX Rad．zedoar．calami，aromat，enulx $\bar{a} \overline{3}$ fs．Herb．abfynth．rorifmar． marub．alb．menthæ，falvix，centaur．minor．àm．j．Baccar．junip．亏j．infundantur in vini Canarienfis menfura una \＆dimidia．Coletur ufus tempore，\＆per menfem hæc cura continuetur．
He advifed her alfo to take frequent and moderate exercife，to eat things of eafy digeftion，and fhun the contrary．By this method he cured many， where the difeafe proceeded from a bad digeftion，and not of long ftand－ ing，or had not degencratedinto a bad habit of body．

## OBSERVATION III.

AWOMAN paft thirty, of a clcan habit, for more than a year, after fhe had milicarried three times, was taken with a troublefome fuor albus; the menfes were irregular, and fometimes in a large quantity. He ordered her fome of his opening balfamic pills, to be taken for three nights, and each morning about three ounces of aperient wine. The fame days he ordered her a bath, made with foft water and ftrengthening herbs, with a bag of the fame herbs, applied over the region of the groins. After the intermifion of threc day's, the fame things were again adniniftered for three more, and repeated in the fame manner a third time, with frefh herbs each time. Then he ordered the uterus to be fumigated with frankincenfe, maftich, and amber; and the patient to live regular. By which method not only the bowels, but alfo the uterus, was purged of a large quantity of humours.
By the fame treatment he recovered many others under the fame complaint. as well as the above patient. He farcher obferves, that it is not only necelfary to purge the body of vifeid ferous fluid, but alfo to ftrengthen the relaxed uterus, which is too much loaded with vifcid humours, by the ufe of the above baths, made more efficacious with nervous and aromatie herbs. And becaufe, for the molt parr, this diforder is the oecafion of barrennefs, the above method is noft probable to remove the fame.

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P A R T \text { III. OBSER. V. }
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AYOUNG woman, twenty years of age, of a delicate conflitution, and who indulged in a fedentary life, after a difficult labour, in which the placenta was pulled away with a great deal of foree, was feized with an acute pain. The lochia afterward did not flow fo freely as they ought. Ever fince, fhe laboured under a fluor albus, which increafed fo much as to weaken her vafty ; fhe was more and more emaeiated every day, and her legs hegan to fwell. He obferves, that he had frequently found in practice fuch violent treatment was the oceafion of the like complaints.

She was prefcribed fome balfamic and nitrous medicines, and ordered to drink with her victuals a decoction of maftich, with fome cinnamon and wine mixed with it. The parts were likewife fumigated with fandaric, maftich, benzoin, and einuabar, and fomentations of nervous medicines boiled in wine often applied to the inguinal region. This method, with an exact regimen of diet, had the defired effect.

## (From Mr. Pearce's Bath Memoirs, p. 219.)

AMARRIED woman, aged thirty-feven years, having for a long time laboured under the fluor albus, which at firf was only white, afterward yellow, then greenifh; after that dufkifh, towards a black, and then interfperfed with red, was eured by fome time bathing in the Bath waters, drinking them, and taking fome gentle balfamie aftringents along with them; while at the fame time fhe threw up into the uterus fome of thefe waters, with fone mel rofarum. In this feetion, there are three other eafes of women cured by drinking thefe waters and bathing.

Vide Foreftum de Mulierum Morbis, lib. xxviii. where he gives five eafes on the fluoralbus.

Fide Boneti Sepulchrenum de Fluore Mulicbri, lib. iii, fect, xxxvi.

## A CASE FROM MR. STEAD2 OF GUY'S HOSPITAL.

AGIKL of a florid compicxion, and eleven years of age; about thrce years and a half ago; had her mentrua come down in a fmatl quantity, of a projer red colour, and whicli continued upon her feveral fucceeding wecks ; then fopped and returned afterwards in a regular manner once a necnih, till within thefe three uceks laft paft; during the grcateft part of which time, fhe has had a flooding. Two or three days after the firft ftop of the menfes, it was difoovered fhe had the whites; and has becn fubject thereto cier fince"; the colonr is whitc, has of late been thin, and fo tharp as to cx coriate" thé parts intra labia. She was fufpected to be clapped ; but both fhe and her motheer folemnly declared no man had cver touched her; and this "was confirmod by the extreme, nariownefs of the mouth of the $-a g i n a$. No particular caufe of this early appearance of the menfes could be found out; unlefs thefe be admitted, that the had at that time a violent fit of crying, and might perhaps have been weakened, and received a wrench in the loins, by having been compelled to carry large heavy children in her arms. Some time before, and after her admiffion into the hofpital, fhe had fuch a conttant uneafinefs, fmarting pain, and fenfe of bearing down about the vagina and privitics, that the could not walk or lie in bed, except crofs-legged ; which pofition of the parts was tolerably eafy to her. She complains of great weaknefs acrofs the loins'; and has an almolt unextinguifhable thirit, and is regular in Itool. In thefe circumftances the phyfician dirceted as follows:

Ex Gum. oliban ${ }^{3}$ fs. Mellis $q$. f.' folut. adde aq. lact. alex. 3 j fs. Mirabil. Syr. balf. "̄ $\mathrm{S}_{\mathrm{ij}}$. f. hauft. omni nocte '\& mane fumend. \& k Decoct. e cort. Peruv. डij. Elix. vitriol. 'gr. xx. f. hauft. quotide hora xima matutipa \& vta vefpertina capicnd.
After the ufe of which between two and three wecks, the being rather coftive; a gentle purge was judged necellary ; as,
 affumendus.
Thefe agreed perfectly well with her, the menfium profluvium whas foon flopped by the altringents; and the external forcnef's removed by fomenting the parts night and morning, with warm milk, and afterward gently anointing them win fome of this liniment :
 menturi:
Little or no check was however given to the whites.by two months' ufe of the internals; and therenpon they were at that time left off for thefe pills:

R Pil. ex duobus̆ gr. xii. Calomel. ppt. gr. iv. f. pil, ij. bis in feptimana cum levi regiminc capiend.
Ax Terebinth. venet. ${ }^{3} \mathrm{ij}$. Pulv. glycyrlh. q. f. f. pil. medioct. quarum capiantur quatuor ter de die in quovis.vehiculo.
.The.purging pills operated inmicdiately, and, eogether with the others, were perinted in about cight weeks, the fux gradually abating the ebey, except for the laft three weeks, during which it feemed to be at a ftand, and was fo confiderable as to induce the phyfician to endeavour to put a total ftop to it; which he attcmuted and freceeded in by five weeks' repetition of the olibanum ditanght, as directed aoove ; and the was accordingly prefonted out well.

It would be unneceffary to infert more cafes of this complaint ; though. ic may be ufeful to make fonie genctal remarks on the methods which $I$ have found fitcerefsful in practict.

I have found this difcharge beneficial to thofe who were obftucted or Irregular in their menfes; but this benefit was more or lefs, aecording to the quantity of the evaruation: and the fluor albus is diminifhed by all thofe methods that are ufed in removing obftructions.
Indeed, where this complaint was owing to a weak and lax habit of body, I have found it relieved by the method of curre recommended in the immoderate flux of the catamenia ; and although I have generally fucceedcd in both cifes, I have met with fome patients who, from the long continuance of the difeafe, could riot be radically cured,
I have had feveral paiients where this difchatge diminifhed on the ceffation of the mienfes; about the age of 45 or 50 , and in a few years afterterward entirely itopped of itfelf. Some of them for ten, fifteen, or twenty years, from the tumeftetion, excoriation, and forenefs of the parts, could not, till after the above ceffation, converfe with theit huifands.

Vide part i. book i. chap. iii. fect. i:

## C O L L E C T O N V.

of labour without any previous fenfible motion of the child; and extra-uterine fotufes.
[ Vide Part i. Book i. Chap. iii. Seef. ii and iii. ]

## $\begin{array}{lllll}M & U & M & B . & I\end{array}$

## EABOUR WITHOUT THE MOTXON OF THE FEETUS,

AW O MAN turned of thirty; after havin'g boren three children, inclining to be corpulent; found the menfes obfructed; but, far from afcribing this obitruction to the true caufe; imagined it was the confequence of her growing fat, efpecially as the had never felt any thing like the motion of a child. In' this way fhe continued till the feventh month, when I was confulted about removing the obftruction, though the would not allow me to examine in a proper manner. Finding her in good health, though fully perfuaded that her bignefs was either owing to corpulency or a droply, and bent upon having the obftruction removed, I prefcribed fome gentle opening medicincs, as the was naturally coftive. I was again confulted in the eighth or ninth month, when fhe ftill declared that the felt no motion ; and obitinately adhered to her former opimion. At laf, however, 1 was called to relieve in a fuppofed fit of the colic, and teached the place of her abode juft time enough to receive the child ; though fhe would not be perfuaded of her real fituation until the átually heard it cry, beeaufe fhe had never felt it flir, either before, or:sin time of the labour-paing. I have delivered many women of ftrong and lively children, after they were fully prepoffeffed with a notion that they were dead, becaule they had felt no motion in time of labour.

In fome cafes, I have imagined the labour was brought on by fuch motion; but have generally found that the pains did not follow this motion; and after the children were sertainly known' to be dead, I have delivered
a number of women with as much eare as when the children are alive. The only offtaieles I ever found in the delivery of dead children were the tumefaction of the belly, from the rarefaction of the contained air, that rendered the labour a little tedious, and a large head or narrow pelvis, which would have been attended with the fame difficulty, lad the children been alive or the body not tumefied.

## $\begin{array}{lllll}N & U & M & 13 .\end{array}$

## OF EXTRA-UTERINE FQETUSES,

IN the Philofophical Tranfactions, No. 323, 4.426 , there are accounts of fome extra-uterine foctufes, both of the human and brute fpecies, by Mr. J. Younge. With regard to the human, he fays, extrauterine embryos have been fometimes found in women, bot not publicly taken notice of till the beginning of the latt century. The younger Riolan, fpeaking of the Fallopian tubes, fays, they appear of the fame nature and fubstanee as the wonb, quia carroficelt in qua, quod cft mirabile fartum bunuthum concipi, fuit oblervotum. 'Ther gives an account of four fueh ftrange conceptions which occurred to his knowledge.

He likewife obferves, frinee that time, more flange ones have happened in that country. One was found at Paris, by Mr. L. Vefalius, in the tube of a woman. It was four months old, and fo grown, and the tube fo diftended, as made him mitake it for another womb, and accordingly to call the acsount he publifhed thereof, Demonfaration d'wne double Matrice. Mr. Oldenburgh inferted an extract of it in the Philofophical Tranfactions, No. 48, and the German Academy, vol. i. obf. ino, did the hike; but neither feemed to underfand the myftery, till De Graaf took it right, and made ufe of this very obfervation to illuftate and confirn the hypothefis of Kikringius. About ten years afterward, a more wonderful and ineredible one happened there. It comes very well attefted by Dr. Bayle, who firt publinted a hiftory of it in the Journal des Scarans, and, after, Mr. Oldenburgh put an extract of it into the Phil. Tranf. No. 139, p. 979. 'This eafe is taken from the : bove, and not from :Mr. Younge.
Margaret Matthew, wife of John I'uget, fhearman, at or near Touloufe, being with ehilk, perceived, about the end of the ninth month of her bearing, fuch pains as women ufually have when about to fall in labour. Her water alfo broke, but no child followed. For the fpace of twenty years the had perceived this child to fir, with many troublefome fymptoms accompanying; but for the latt fix yars, the perceived not the child to move. She died, and the next day, being opened, a dead child was found in her belly out of the womb, no way joined or fattened to it; the head downward, the buttocks hanging toward the left iide. All the back part of the ch:id was covered with the omentum, which was about two fingery thick, and fuck hard to civers parts of the bedy; fo as not to be feparated without a knife, which being done, very little blood iffued. This infant weighed eight pounds avoirdupoize; the fiull was broke into fer eral pieces; the brain of the colour and confiftence of ointment of rofes. 'The fleh red where the ontentuan ituck; other parts whitifh, yellowifh, and fomewhat livid, except the tongue, which had the natural fofenefs and colour. All the invard parts were difeoloured with a blackithnefs, except the heart, which was red, and without any iffuing blood., The forehead, cars. eyes, and nofe, were covered with a eallous lublance, as thick as the briadih of a finger. 'The gums being cut, the tecth appeared in the adult-
nefs of thofe in grown perfons. The body had no bad funcll, though kept three day's out of the mother's belly. 'The length of the body, from the buttock's to the top of the head, about eleven inehes. The finother died about the 64 th year of her age.

Mr. Younge gnes on, and fays, that before cither of thefe appeared in Fr:nec, there happened one in Holland to H. Rhounhuys. A woman with child, at her full time, was four days in labour, and, although the had many midwives, could not be delivered. Our author was ealled, found the internum uteri ofculum clofe fhut, without flowings, or any fore-runners of the delivery. He, finding the common paftage fo elofely mut up, and a very painful tumour above the navel, propofed the Cæfarean fection. The woman having feen that operation made at Paris, earneftly defired him to perform it on her; but he, to obferve fome unnecefliry forms, delayed it till the woman died; who, he believes, with the child, might have been preferved, if the operation had been done when he firft faw her. Upening the belly, he found a child among the entrails, and the placenta faftened to the colon, and part to the fundus uteri, and that there was a breach in the womb, eapacious enough for the infant to pafs through into the helly. T. Batholinus the year after Rhoonhnys's exploration, met with fuch an extraneous foetus wrapped up in a mola, which he found in the belly of a woman, and conjectures, non poljum aliud divinare, quam quod fuitus bic primo in tubis ut.ri comcrptus. He inparted thịs firit to G. Hortius, Le. 58 , yol, iv. afterwards in the 9 2d obfervation of his fixtn century.

In the city of Aurange, D. Baldwin and Mr. Delafort, found puclliuss egregiunt optime formatam extra uterum, The report of this difcovery is made public by Sachs, with remarks, Mifeell. Cur. vol. i. obferv. $110^{\circ}$ which he concludes with one more ftupendous than all I have cited, which he had from the Silefia Chronicle, written long fince by N . Polinus, and thus relates it:

A woman who had boren ten children in fifteen years matrinony, cont ceived again; and, at the full time, was delivered through an abfeefs of the lelt hypochondria: ex qua infans boni babitus critratius, qui baptizatus fuit, है annum unum cun dimidio fupervixit; mater vero, fummis in. doloribus tertio die obitt. He alfo, at the beginning, gives an account of a-gentleman's fervant having killed an ewe which was thought fat, and having taken out the bowels, fond a very unufual and monttrous lump of fat, proceeding like a wen from the middie of the omentum; and when opened, a lamb was fonnd in the fane. He likewife relates, that, thirty years fince, he had been thewn the like in a bitch. He was alfo told by a gentlenan-hunter, that he lately found in the paunch of a hare, two fullgrown young ones amongtt the bowels, but almoft rotten, and three immazure embryos in the uterus.
'There is alfo, in the Philofophical Tranfactions, one cafe that feems to be publifhed by two different perfons, of near the fame date, at Paris; the firit is by Mr. Saviard, No. 222, p. 314; the fecond is by Dr, Ferne, No. 231, p. 121; which laft I have copied as being the fulleft :

A goldfmith's wife, near nine months gone with child, was receired into the Hotel Dien. She was about thirty-fonr years of age, of a tender conftitution; had had four children before, all which had done very well; but with the prefent the had been very ill, and endured a great deal of mifery. The midwife who examined her body, fonded a confederable sifing on the right file near the navel, which very much refembeled a "child's
head ; her belly below that place bearing no proportion to that above, or to the time of her pregnancy; on the left fide there was nothing fingular. The midwife thought the felt, through the vagina, a thick membrane filled and diftended with water, and in it the heel of a child bent toward the thigh; but fhe could not be affured whether this was within the womb or not, by reafon the inner orifice was drawn fo high under the os pubis, fhe could not without fome difficulty touch it with the extremity of her finger. Upon'trying fome time after, fhe could not difcern any thing like the foetus fhe had felt before. The patient told her, that for the firt fix weeks after her being with child, fhe had great and continual pains, which fhot toward the navel, and terminated there; and thefe lafted till the third month; that from thence to the fifth fhe had frequent convulfions, apoplectic fits, and terrible fyncopes, fo that thofe about her defpaired of her life; that from the fixth to the eighth month, fhe had enjoyed much better health, which in fome nieafure had ftrengthened her and her infant; that the pains fhe had endured fince that time feemed to be fo many alternate throws, probably proceeding from the repeated Arokes of the child's head in that place, where the teguments were fo thin, by reafon of their great extenfion, that the hardnefs of the cranium could p'ainly be difcerned through them. In this condition was this miferable woman when the was received into that hofpital; till, her affliction increafing, fhe could neitherlie on her fides or back, being forced to fit on a chair, or kneel in her bed, with her head refting on her breaft. Thefe ftrange and unaccountable fymptoms obliged the midwife to confult with the phyfician and mater-furgeon of the houfe, who thonght it was beft to leave the work to nature, and prepare the woman for labour by opening a vein in her foot. The evacuation was ordered to be fmall, in which regard was had to the weaknefs of tho patient, and the delicacy of her conftitution. However, after this time the child made no efforts, and the tumour fubfided, there remaining only an hydropic indifpofition, which might be perceived by the fluctuation; and a great quantity of water came away for feveral days, from the orifice of the vein, infomuch that the who feemed to have her lower belly and thighs extremely diftended, was very much emaciated before her death.

Afier he: deceafe, her body was opened by M. Jovey; and upon the firt incifion through the teguments, there came away two or three pints. Paris. meafure, of water and blood, and there appeared the head of a child naked. When the parts were all laid open, there was found an entire female fretus, contained in a cover or bag, which at once ferved it both for a womb and membranes. 'M. Jovey took the child and umbilical fring out of the mother's belly, tracing the fring to the placenta, into which it was inferted. This laft appeared like a great round lump of flefh, and adhered fo firmly to the mefentery and colon on the left fide, that it could not be feparated from them without fome trouble. On one fide of this lump was a lefer; about the fize of a kidney, which principally adhered to the mefentery, and received feveral branches of the ftring into it. 'The larger lump was round, and the greateft part of it adhered to the bag or cafe which contained the child, This cafe of bag was corrupted and mostified in part, which probably might proceed from the frequent frokes of the infant's head. It fprung from the edges of the tuibe or fimbria of the right orary, which was more entire than the left, and proceeded obliquely to the left fide, terminating at the bottom of the pelvis. In its defcent it fent out a fmall portion between the womb and the rectum. This bag, hy comprefing the ncighbouring parts; had gaized a confiderable fpace in the above-mentioned
cavity, in fuch a manner that a great part of the child's bedy was lodged at the bottom of it, in a bended pofture, with the head projecting forward, which formed the prominence near the navel. This bag feemed to be nothing elfe but an elongation and diftention of the tube, and an expanfion or production of the broad ligament on the right fide; which was evident from its continuity to thefe parts, and the diltribution of the fpermatic veffels, which were larger than ufual, and paffed from the extremity of the tubie to the larger lump. The womb was entire, and in its natural ftate, except that it was fomething larger than ordinary, being aboút the fize of that of a woman ten or twelve days after delivery, and no marks that the child had been lodged in it.
M. Jovey having obferved this, thought proper to defift till feveral eminent phyficians and furgeons were called ; and then the womb being carefully diffected, it was unanimoufly agreed, that the foctus had never been in it ; it being, as it was noted above, in the fame fate as in women who are not with child, except the fmall dilatation of its bulk, which might arife from a compreffion of the veffels, and interception of the refluent blood, by the unnatural pofition of the foetus. In thrufting a long and flender probe through the right horn of the womb, it eatily paffed into the zube on the fame fide for three fingers breadth in length, but it could not be thruft farther, by reafon of the confriction of the tube in that part. The capacity of the tube could not be diftinguifhed; the parietes of it, by their coalition with the chorion and amnios of the child, forming the bay in which the child was inclofed, which extended from the tube on the right fide to that on the left, and was agglutinated to the vifcera of the lower belly, the rectum, and to the back part of the womb, as appeared by fome fragments remaining on thofe parts after the feparation.

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\text { A fotus in the right born of the uterus. By Dr. Ferne, No. 251, p. } 125 .
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IN diffecting the body of a woman, who fuppofed herfelf to be three menths gone with child, I found the womb very fmall, not larger than in virgins, and a hard fubftance in the right horn; which being opened, appeared to be the fkeleton of an infant, with the navel-ftring fmeared round with a white matter not unlike plafter.

In the Pbil. Tranf. No. 378, p. 387, an exira-uterine foetus that bad continued five years and an balf in the body. By Robert Houlfon, M.D.

IWhs fent for to a woman near Newport-Market, who had been married eighteen years to a native of the Eaft-lndies, by whom the had cight children, befides two mifcarriages. At my vifiting her, the was with child in a fecond marriage, and her hurband a vigorous young man. She was near her full time, and had felt pain for feveral days, which, returning, by intervals, the concluded would, as ufual, bring on delivery. Her mother and her midwife apprehending no difficulty, affured thofe about them that only time was wanting; but I found, on examination, that her womb was of no bulk to contain a child near its time; and that its neck, which was of an uncommon hardnefs, was alfo clofed fo Araitly as to refufe the admiffion even of a fmall probe or knitting-needle. 1 declared uponthis that her delivery was impoffible, becaufe the child was nor within the womb, but between the womb and the guts; but that it inight be removed by a paffage to be made for it, without any great pain.
and with fafety to the mother. I offered to undertake it; and affured them that this was the only opportunity, and that if the neglected it, it would be out of the power of art hereafter to give her any relief; for the muft languilh till death, unlefs favoured by fome unlikely and extraordinary accident. However confidently I affirmed it, they liftened with a mixture of difbelief and amazement, and rejected my afiftance. At that time, in all probability, it would have been fuccefsful; for fhe was a fiender well-fhaped woman, in good habit of body, and of a fprightly difpolition.

- It was a year after this when I was defired again to vifit her. I found her much difordered by a growing impofthumation in her bolly. I ordered her fome cordial ftomachies, ealia, and fuch gentle lenitives; and they met with fuecefs beyond my expectation; fo that by aid of a regular diet, and the watchful exactnefs of a very tender mother (a nurfe of about thirty years' experience about this city I I reftored her to fueh ftrength, that fhe went cheerfully abroad, and applied herfelf to bufinefs.

About fifteen months after the time when I vifited her firf, her mother came from her to intreat my affiftance: fhe complained of great pain in the lower part of her abdomicn; and I found a tumour of a conic form, projecting about an inch beneath the umbilicus; its inflammation, with tention and a feverifhnefs attending it, fo plainly indicated fuppuratives, that I was not furprifed to hear in a few days that it had broke as I winged. I propofed to lay it open, both to give a free emifion and prevent its beconing filtulous; but fhe was approbenfive that I would, as fhe ealled it. cut open her belly: fo that not being able to prevail with her, I ordered her a pot of unguent, and fome plafters. The ulcer foon grew fiftulous, and fo continued till fhe died, which was in the 411 year of her age.

For above five months before her death, fhe voided her exerements by this vent; and all the foft parts of the factus, with fome finall bones of its fingers. But the reft of the fkeleton remaining entire, I took it out of her body, together with the vagina, uterus, rectum, \&c. wherein it had involved itelf.

A fatus formed in the ovariun. By. M. de S. Maurice. Pbil. Tirauf. Ao. 150, p. 285.

AWOMAN, after being fafely delivered of eight children, and con ${ }^{*}$ tinuing five years afterward without having any more, about three months before her death fufpected herfelf to be fallen into that condition again ; beeaufe fhe never before failed of being very regular, and had not found herfelf fo formore than a month. After this, fhe had a little fhow, which fearee left off wholly during the two laft months of her life, and which fhe pafied, neverthelefs, without much trouble ; fo that the thought herfelf to be fecure as to the point of her being with child. But, after She was up one morning, in very good health, fhe fell into faintings, had violent pain, like the eolic, in the region of the right groin, which terminated at the reins, a little after eight in the evening. She felt all the preludia of an inminent travail ; the ealled her furgeon, and died in his arms, faying, "I am delivering, I am delivering;", there appearing outwardly neither diftillation norffooding, nor any mark of this diforder.

On opening the integuments of the belly, all the entrails of the epigaftric region were feen floating in blood, which was taken out with a fpoon, ta thequantity of two pounds. To avoid changing the fituation of the parts,
a large quantity, which was coagulated, fill remained in the right flank : and trying to take this out with the hand, a little fuetus was found in the firlt cluts, about the bignefs of a man's thumb, and a third lefs in length, all very diftinetly formed, and in which was manifeftly difcovered the fex of a boy, but naked and without covering. The iight cornu of the womb was found near this place ; the telticle, or ovary, was toren longwife, and through the middle on the fide, that it did not touch the tuba. This tefticle was near the bignefs of an hen's egg, and feemed to be the place where the foetus was contained, and which had burft through the fame, for the left tefticle was no bigger than a fmall chefnut : the tube was not dilated. neither was there any rent of the uterus, which appeared to be in its natural ifate, and was as Dr. Harvey had defcribed it in the firf month of pregnancy; but when it was opened, he found not the leaft fign of conception; the veffels of the interior membrane feemed full of blood and varicous, which might be the caufe of that little fhow of blood, as before mentioned.

He remarks, that alchough authors fpeak of foctufes found in the tubes and belly, he does not know any that mention their being in the tefticle or ovarium, as this feems to have been.

In the Pbil. Tranf. No. 367 , p. 126, a fretus that continued 46 years in the mother's body. Communicated by Dr. Stegertabl.

AN NA MULLEE N, of the village of Leinzelle, near Gemund, in Suabia, of a dry and lean conftitution, but otherwife healthy and robuft, died at the age of ninety-four, after the had lived a widow forty years. Forty-fix years before her death, the declared herfelf to be with child, 'and had all the ufual tokens of pregnancy. At the end of reckoning, the waters came away, and the was taken with the pains of labour, which continued upon her about feven weeks, and then went off, upon the ufe of fome medicines given her by a furgeon. Some time after this fhe recovered her perfect health, except only that her belly continued fivelled, and that now and then, upon any exercife, fhe felt a little pain in the lower part of it. She was after this twice brought to bed ; the firft time of a fon, who is now a huntfman at Bifchoffhein; and afterward of a daughter, who is married to a foldier. But notwithitanding this, fhe was firmly perfuaded that the was not yet delivered of what fhe firft went with, and defired Dr. Wohnlixe, the phyfician of Gemund, and one Knauffen, a furgeon at Heubach, to open her body after her death. Accordingly, after her death, which happened after four days illnefs, her body was opened by the furgeon, the phyfician before-mentioned being dead. He found within her a a hard mafs, of the form and fize of a large nine-pin bowl, hut had not the precaution to obferve whether it lay in the uterus or without it, and, for want of better inftruments, broke it open with the blow of a hatchet. This ball and the contents of it are explained in the figures of the 'Tranfactions; and, according to the defeription and appearance, feem to have been fo frongly prefed, that the parts were confolidated to one another, and the integuinents in a manner offified. The nofe was turned up and flattened, and the eye clofed ; but the ear, the arms, of which the right is the largett, and the two joints of the thumb, \&c. are plainly difinguihable.

An arcount of a child taken out of the abdomex, after baving lain there upwards of fixteen years, during rwhick time the quoman bad four cbildrens all born alive. By Starkey Middleton, M. D.

## GENTLEMEN,

THE records of your fociety furnifh us with feveral cafes of extrauterinc conceptions, one of which I communicated to you, March 28, 1745. Neverthelefs, I could not help flattering myfelf, that this care alfo might be worthy your notice.-In April, 1731, Mrs. Ball, without Bihopfgate, perceived, by the ufual fymptoms, that the was pregnant; and, in October following, being then in the fixth month of her pregnancy, fhe had a child died in her lap of convulfions; the furprife of which caufed a greaz fluttering within her, attended with a fenfible motion of the child; which motion continued, though gradually weaker and weaker, for about fix or feven days, after which fhe did not perceive it move any inore; but from this time fhe had conftant pains attending her, which appeared like labour-pains. Her midwife for feveral days expected a mifcarfiage; but finding herfelf difappuinted, advifed her to apply to Dr. Bamber, whofe known abilities, in the feveral branches of phyfic, joined to his great experience and judgment in midwifery, made him unqueftionably the molt proper perfon to be confulted, as the cafe appeared fo very un* common in its circumfances; at the fame time that his great humanity. always gave the moft free accefs to the poor in their diftrcfes. The doctor, after a proper examination, finding fufficient indications of a dead child, ordered her fome forcing medicines; upon taking which about three times, fhe difcharged fomething, which the women fuppofed to be part of the after-birth, accompanicd with a fmall quantity of water. In confequence of this difcharge, her pains ceafed, but without any diminution of her belly. After fome tinie, the again applied herfelf to the doctor, who thought it mott advifeable to difcontinue her medicines, and leave the affair entirely to nature. In this ftate fhe continued for about twenty months, viz. to July 1733, which was two years and two months from her firt reckoning; the then again applied to Dr. Bamber, acquainting him, that fhe was not yet delivered of the child fhe fo long fince came to confult him about, and that her pains were lately returned, and daily increafed without intermiffion. Upon the dotor's examining her, he thought it proper to fend her home immediately, directing her to promote her pain by frequently fipping fome warm caudle, \&c. by the ufe of which her pains became more regular; and the next day the doctor made her a viftt, and was informed the had difcharged two waters, but nothing more: he then carefully examined her again, and plainly felt a child through the integuments of the abdomen, but could not give her any affiftance.

It was about this time Dr. Bamber firit aquainted me with the cafe, defiring me to attend her as often as occafion might require ; and that I would acquaint him if any thing like labour or other remarkable alteration thould offer. Accordingly, I made her a vifit, and after a proper examination, was convinced of the certainty of the doctor's affertion. Her pains now began to abate, and fhe grew tolerably eafy; but about the latter end of January 1733.4, fhe conccived again with-child, and was delivered the 28 th of October following by Dr. Bamber, who fent for me to attend him in her labour: the doctor foon delivered her of a fine boy, and after having brought away the placenta, he fearched for the other child, which he had before felt through the integuments of the abdomen, but found it lodged in
the cavity of the abtomen, tind beyond the reach of htiman art to relieve hor. This fate every onc then prefent was made fenfibie of.

October 22,1735 , I was fent for to her in her labour, but before my arrisal he was delisered of a boy; however, I brought away the placenta. which gave me an opportunity of examining forjthe other child, and found it in the fane fituation as formerly.

Octuber 9,1738 , I was again fent for to her when in labour, but fhe was delivered of a boy before I arrived. Upon examining the womb, and the flate of the abdomen; the child appearced juft às before, without any alteration.

June $17,1 \% 4 \mathrm{I}, \mathrm{I}$ wás agailin fent for in hèr labour, hit foưnd her juft delivered of a girl; ahd; upon exxamining the parts, every thing appeared as bcfore:

October ${ }^{14}$, $17+7$; being greatly emaciatcd by conftant pains; \&ic. fhe was admitted a patient in Guy's Hofpital, where the died the 7th of Noricmber following, after having laboured under the diftreffes and unieafiriefs of carrying a dead child within her; in a manner loofe in the abdomèn; upward of fixteen years. The daj after her death; I opened her in the prefence of doetcors Nefbit, Nichols, and Laurence, when the uterus, and the feveral other conténts of the abdomen, appeared neatrly in their natural fate; but on the right fide; within the os ilium, a child prefented itfelf, which was attached to the ilium and ncighbouring membraries hy a portion of the peritonetm, in which the fimbria and pairt of the tight Fallopian tube feemed to lofe themfelves. The child feemed no-vife putrid ; but the integuments were bécome fó callous, and changed from their natural fate, that the whole feened to refemble a cartilaginous mafs, without form or diftinction; the legs; indeed, were diftinguifhable, though they wete much wafted and dittorted: Upon opening the callous integuments of the head and face of the child, the bones appeared perfectly formed, with a few fpots of tophous concretions on them. This account hay ferve to convince thofe who are of opinion that bojs are conceived on the right fide and girls on the left, as this woman had three boys and one girl after the Fallopian tube on the right fide had loft its action.

> Your's; S. MIDDLETON.

In the Memoirs of the Acaderry of Sciences at Paris, M: 1702, p. 234: \&c. we read of a feetus extractcd by the anus; and in $\mathrm{H} .1722, \mathrm{p} .20$, of one found in the Fallopian tube. The German Ephemerides, an. prim. 1. iii. obfery. cx. mentions a foctus lying betwixt the uterus and rectum; and tom. iii. obferv, xi: deferibes another found in the abdomen of a woman, where it had lain above fixtecn years.

In the Med. Eflays of Edinburgh, vol. v. art. 38, is the hiftory of one child extracted by an opening in the abdomen, and part of another paffed. by ftool ; by Dr. Gabricl King, phyfician at Armagh, Ircland.

## COLEETTON XT.

Of ficuer-fatation, or what was formerly fuppefed to be fo. [Vide Part i. Book i. Chap. iii. Sect. vi. $]$

## $C A^{\prime} S^{\prime} E$

IWT AS called to a woman in the country, who was feized with a volent flooding in the four month of her pregnancy; and before L reached hor house, which was about four miles diftant from the place of my habitation, the had mifearricd of a foal foetus and the fecundines. The difctrarge was abated; yet, as fie had been before delivered of twins, at three different times, I examined the vagina, and found the os internum fo much contracted that I could hardly introduce the top of my finger. The neck, ot the womb fecmed to be about half an inch long; and above. that I felt a pretty large fetching of the uterus on the fides and anterior part. As foe had retted little the preceding night, I preferibed a paregoric, mixture, with thirty drops of liquid laudanum, two fpoonfuls of which the took every two hours, until forme flight pains that fill remained were removed, mod the fell aftecp: In two days the was perfectly eafy, and in e about three months after this period hes husband brought her to my house, where the told me the had been irregular in the difcharge of the menes line her mifcarriage, and was grown very big; a cireumtance the inputed, to a dropsy, or rather a tympany; for the found frequent motions from wind. By examining the abdomen and vagina, 1 plamby perceived. the was in the eighth month of pregnancy, and affined her the wind the felt. was no other than the motion of a child; offering that he had probably conceived two children as formerly, and though the had mifcarried of. one, the other had remained, and would continue to the full time. My: prognoltic was verified in about nine weeks, when fie e was delivered of a full-grown female child.

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C=\mathcal{A}+S \quad E \quad I I .
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ABOUT three years after this tranfaction, my affiance was demanded to a woman, who, in the firth month of her pregnancy, was altotaken with a flooding, though in a fall quantity, which continued ten' days before I was called; forme water was likewise difcharged without pain, and yielded a mortified fuel. I inderfood, that the day before I was confulled, the had felt forme light pains, and a few fmall bones had been coifcharged from the vagina; and the fe, upon examination, proved to te the bones of the legs and arms belonging to a foetus. I could fare introduce' the th p of my finger into the os internum, though the neck feemed larger than offal, and above that the uterus was pretty large. The cloths, that were moiftened with a ferrous difcharge, exhibited a brownith colour, and had a putrid fell. The woman was much alarmed, her finite were funk, the had for forme time enjoyed little or no reft, and was costive. I ordered an aperient clyfer to be immediately injected, after the operation of which, I -directed her to take ten grains of the pill. Math. and next day four fpoonfuls of the following mixture, every fix hours:

R Aq. Pules. qty. Bryon. comp. oj. Tinct. cater, gat, c. Spit. c. c. gutt.lx. Syr. caryoph. $\overline{5 j}$. M.

I like-

I Likewife dirested the clyfter to be repeated every aftermoon, and thic pills every night, if there thould be occafion, and found her perifeoly cefy and free from all complaints, and was' told fle had the preceding night difcharged the reft of the bones and feciundiues of a child. I infifted upon her keeping her chamber and bed for fome days, and preferibed a cordial mixture, with fome dofes of fperma-ceti; at the requeft of her female acquaintance.

About two months after this diforder, I received another call, when the fold me her flomach was ftuffed up with wind, that fhe was taken with a violent colic, and had been three days without paifage in her belly: When I felt the abdowen, as the was a thin woman, I could plainly perceive a Arctching of the uterus, extending above the navel; and upon examining Wy the touch, in the vagina, felt the os internum largely opened, thie membrases with the waters pulhed down, and through thefe the arms; fhoulder, and navel-ftring of the foetus. She was agreeably furprifed when I told her the was in labour of a child, though in the feventh or eighth month; then being put to bed, and the female friends affembled, fhe was, to her great joy, delivered of a live malc child, which, though fmall, was reared by lucking another wonan at firf, and afterwards the mother, who had formerly lolt two children.

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C . A S E \cdot H I .
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Communicaticl by Mr. Campbell, in a letter, dated from Poole, April 24 , 1.750.

SIR,

T*HE following being a very uncommon care, I am willing to communicate the fame, to have your fentiments on the fubject :
A woman in this neighbourhood was delivered of her firt child, and the -delivery followed by fevere after-pains; and, hee day's after, the mifcarried of a fretus, which could be no more than four or five months in growth. There was no fign of putrifaction about it, though it was itill-born; there was no hair, mor other fign of its being longer conceived. How to reconcile this with the prefent doctrine of conceprion, will, I believe, be found dificult. I fhould be ghad, if at the fame time you would be pleafed to acquaint me how to dilinguifh betwixt an obftrection and-the-total difappearance of the menfes in women.

## My anfiwer weas to this effict.

S 18 ,

WHAT you have writ me fecms to favour the notion of fuper-fuetation more than any thing I have met with in practice. But there are inftances of cxitra-uterine foctufes which have lain whole years in the abdomen without beirig putrified. However, we fee; from time to time, things happen that we cannot account for, and thefe defroy ail our fine sheories.

The menfes commonly difappear in women between the age of 45 and 50: fometimes they leave them fooner, if the woman chances to grow fat, if the cat umenia appeared cariy in life, or if the had boren many children : but whether the diforder proceeds from obftructions, or the total difappearance of the menfes, the intention of cure in both cafes is, to repeat yenxfection and gentle purgatives.

Schenekius, lib. iv. De Super-foxtatione, p. 617, has collected feveral obfervations of fuper-fextations.

Others of late, to prove the poffibility of fueh things, have advaneed an attefted cafe from Anerica, of a black woman, who by converfing with her bufband, of her own complexion, and immediately after with a white overfeer, was delivered of twins, one a mulatto, and the other a black child : alfo another of a wonan of Charles-Town, South-Carolina, mentioned by Dr. Parfons, in a lecture read before the Royal Society of London, who was brought to bed of twins, one a mulatto, and the other a white child. She confeffed, that immediately after her hufband had lefi her, a negro fervant came to her, and forced her to comply with his defires, by threatening her life if fhe refufed.

In the Memoirs of the Academy of Sciences at Paris, H. 1702, F. 30, $\& c$. we read of the delivery of a boy, in whofe placenta was found a fort of bladder, which contained a female fotus, reckoned to te four or five months : and H. 1729, p. 12, of two child ren delivered at a day's diftance, one aged forty days, the other at the full time.

Ruyfch, in tom. i. obferv. xiv. gives an account of a furgeon's wife at Amfterdam, who was delivered of aftrong live child, and in fix hours after, of a finall embryo, the funis of which was full of hydatidcs, and the placenta as large and thiek as in one of three months. He exhibits a figure of this phrnomenon.

Mauriceau, in the midft of his additional obfervations at the end of the book, mentions his having feen a young woman who had been delivered at the ufual time, of $t w i n s$, one of whieh was alive, and of the ordinary fize; the other was dead, and feemed to be only of three or four months. He accounts for thịs circumftance, by fuppofing the death of the child at the term of four months, but that its waters remained uneorrupted, from the air not being admitted, \&e.

## COLLE CTION VII. Of women who exceed the common terin of geflation.

[Vide Part i. Book i. Chap. iii. Sect. vii. ]

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IWAS befpoke to lay a joung woman of her firft child. She was. taller than the middle fize, and had been healthy from her infancyShe was married about a wcek after the menftrual difcharge, which not returning at the flated time, flie was feized with the ufual complaints of ficknefs and retching, which her mother fuppofed to be certain figus of pregnanicy; and though the rcekoned only to the begrinning of June, fhe was not delivered till the end of Auguf. Before marriagëe the menfes had flowed regularly' every four week's ; and thougli the, perhaps, did not conceive immodiately, after wedlock, it was reafonable to fuppofe fle actually excecded the ufual term of geltation, hy four or five weeks at leaft. Her labour was very tedinus, thou'gli the pelvis was of a large fize; but the child was very lufty, and the head fquezzed into a longitudinal form.' Two jears after, 1 delive:ed her of a feeond child, which was alfo very large '; yet the labou: was fhort, and happened according to the common time of reckoning ; nor was the head of this laft fqueered into a longifh form like that . of the tirit, which was indecd the larget child I ever brought into the world.

## C $A S E$ II.

WAS called by a midwif to a woman in ehild-bed, and found the breech of the foxtus prefenting at the brim of the pelvis, where it had fiuek for fome time without advancing, although the mother had beeu long in labour, and the membranes had heen broken eighteen hours before I came. I with great difficulty pufhed up the breeeh, and brought downthe legs; and after much fatigue delivered her of a live child. Aceording to this woman's reckoning, the had exceeded the ufual time of gettation by cight weeks; for fhe affirmed, and her mother confirmed the ailertion, that the had but one difeharge of the menfes after the was married, and in the middle of the month was feized with the eommon fymptoms of pregnancy, from which they coneluded fhe had conceived foon after the evacuation.

I have felected thefe two cafes from a great number of lefs certainty, to fhow that women may probably go with child beyond the nine months, though this is a citcumftance that rarely happens. Indeed, I have known many women exeeed that period by their own reckoning; but I have generally fuppofed they committed fome error in keeping the account.

Fide La Motte, liv. i. ehap. xxvii. and xxviii. where we read of women who have been delivered a confiderable time before and after the term of reckoning. I myfelf very often find my patients go two or three weeks beyond the nine months, reckoning from the laft difelarge of the menfes.

## C O L L E C T I O N VIII. <br> Of what is commonly called the falle conception, molas, and hydatides.

NUMB: I: CASEI.<br>OF FALSECONCEPTION.

BEING ealled to a gentlewoman, I was told by the women who were about her, that the had mifearried of a falfe eoneeption in the third month; and that the fame misfortune had happened to her feveral times before this aceident. The midwife pretended that the fe falfe eoneeptions proceeded from a foulnefs of the uterus, and had prefcribed, from time to time, decoctions of fabine, artemifia, and uther herbs, to be taken by the mouth, and injected by the vagina.

This being the firt eafe of the kind which I had feen, I carefully examined she fubitance, which was bigger than a goofe-egg, and found it no other than a coagulum of blood, of which fhe had loit a large quantity, formed round the feeundines ly the preffure of the vagina, where it had lain for many days. I plainly difcovered the cavity whieh had eontained the embryo, and affured them it was a real conception, though the embryo had been forced through the membranes and loft.

Since that time I have been eoncerned in a great number of cafes of the fame kind: fometimes I have found the embryo partly diffolved, and fometimes perfect, eommonly of the fize and figure of a finall horfe-bean, when the mifcurriage happened in the ninth or tentla week of pregnancy; but
when no embryo was found, it was always termed a falfe conception by the good women.

When the membranes broke before the fecundincs were difcharged, I have known the embryo pais off unobferved with the coagula of blood, and be loft among the clots; and at other times, when the inembranes were not broke, I have found it difiolied in the waters.

In one cafe where I was concerned, the chorion had broke, and the amnios, was difcharged whole, with the embryo fwimming in about ten times its own bulk of watcr, as clear as cryftal. Though it was not higger than a fmall bean, 1 could diftinguifh the legs and arms pretty well formed; but as I had not lcifure to immerfe it in fpirits immediately, it lay in a cup for the fpace of twelve hours, at the expiration of which I found the waters muddy; and when I opened the amios, in order to evacuate the corrupted fluid, and fupply its place with firits for the prefervation of the embryo, I perceived the legs, arms, and greatelt part of the body, were quite difolved.

## $C A B A \quad$ II.

IATTENDED a paticnt who mifcarried in the fifth month, the fectus and membranes having been difcharged together. About five days after. the mifcarriage, I was called to examine a fubltance, which had becn paffed with a great deal of pain, and which the midwife termed a real falfe conception. This was about the fize of ann hen-egg, furrounded with what appeared to be aftrong thick membrate, which, when I opencd, I perceived the whole was no other than a coagulum of blood which had been ftrongly prefied in the uterus or vagina, fot that the ferous part having been fqueezed out, the furface, in confequence of the preflurce, had affumed the form and appearance of a membrane. I have feen a great number of fuch fubltances, which have been always miftaken for falfic conceptions by midsives, nurfes, and even gentlemen of the profeffion. Indeed I my felf had at firit a confufed notion of thefe things, untill underfood that coagula of blood would affume fuch appearance from proffurc in any cavity. Thefe I have feen difcharged both before and after mifcarriages and deliveries, at all times of pregnancy, - though generally in the firft five months, and more. frequently in the third than in a more advanced fate of uterine geftation.

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WIDOX-GENTLEWOMAN, about the ag: of fifty, was fuddenly, blood from the uterns. Two years had elipfed fince her menfes difappeared ; but, haring received a fall down fairs, fhe had, from the time of that accident, been fubject to pains in the lower part of the abdomen and back, with a flow draining of blood from the uterus. Thce complaints continued fix months before fle was taken with the violent pains, in confequence of which I was called to her afiftance. I feit the os intcrnum, a little open, and fomething prefenting like the edge of a placenta, or a round flefhy fubfance. She was for feveral days kept tolerably eafy, by taking five or ten grains of pil. Matt. or draughts with liquid laudanum, from fifteen to thirty drops, repeated occafionally as the pains returned. Laxative and cmollient clytters were frequently injected by way of fomentation
as well as to evacuate the interfincs. The os internum was gradually dilated, the difcharge and pains fuddealy returned, a large oblong flefh-like fubflance was chrult down into the vagima, and by gently opening, the os ex= ternum, at length extracted, when the pains and flooding abated. This fubttance being examined, appcared to be nothing elfe than the fibrous part of the blood, ftrongly fyucezed together, ncarly as large as the head of a child in the fixth or feventlr month. A bloody ferum continued to drain from the parts for feveral days, when the red colour vanifhed, and it began to rield a ttrong foctid fimell: She was feized with violent pungent pains in the hypogattric reginn, the lips of the os internum fivelled, and bec ime unequally indurated, the pains and difcharge increafed, with all the direful fymptoms of a confirmed cancer in utero. Yet no other flefhJilec fubftance was evacuated, though every now and then the was attacked with violent floodings; at length fhe became hectic, and died in about three months.-Vide col. ix. No. ii. cafe iii.

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Mr. Watkins, Surgeon, at Colefnill, in Warivich Jiirc, surites to this effect.

GIVE ine leave to trouble you with one cafe, as a confirmation of your: doctrine, that the mola is for the molt part an excrefcence or coagu-; lated blood, and not a falfe production from generation.

I was called to a marricd woman full fixty years of age, who flooded pro-; fulely, in confequence of a falling down of the womb, as I was informea?, by the midwives, for fhe was attended by two who had attempted the re-: duction. Finding an imperforated fubftance prefenting, I concluded it was: not the uterus: then placing her in a proper pofture, I introduced my hand ${ }_{s}$. and delivered her of a mafcular or rather tendinous-like fubfance, as big as a large calf's heart, exactly refembling the auricles, and conical : point, which had prefented at different times, for feven years laut paft, with vaft flooding and excruciating pains. The lofs of blood was now ex-, ceflive, but by the help of incraffating medicines and acids, fhe is happily ${ }^{\prime}$ recorered and hearty.
Fide Boneti Sepulchret, lib. iii. fect. 37. Ruyfch, tom. i. obferv. 28, znd 29. Foreftus de Morbis Mulierum, libo xxviii. Hildanus, Centur. 2o, obfervat. 24.

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HYDATIDES DISCHARGED FROM THE UTERUS.

1N the year ${ }^{1} 75^{2}$, one of my pupils attended a poor woman, who, ins the fourth month of her pregnancy, was taken with a violent fooding, which was reffrained by opiates; but in three days returned with greater violence, accompanied with ftrong pains and frequent fraining like $x$. tenefmus. At length fhe difcharged a potful of coagulated. blood and hydatides, adhering to a membranous fubftance, or to one another, like a: bunch of grapes of different fizes, from the bignefs of a nutmeg to the fmallinefs of hemp-feed. The patient was reduced to fuch a degree, that we thought the could not poffibly live; neverthelefs, fhe gradually reco-: vered, contrary to our expectation,

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C A S E \quad I I .
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Commainicated by Mr. Craceford, of Loudos.

IWAS called to a woman about the are of twenty-feven, who thought herielf feven months gone with child: When I entered the room, the ftood leaning on the back of a chair, with an earthen pot betwixt her legs : the had voided near a pint and an half of blood into this receiver before $\{$ came, and at times evacuated the fame quantity for near three months. Her flooding was then much abated; but the was very weak and low. though almolt entirely free from pain. When I examined the matrix, I found the os tinex open to fearee the breadth of half-a.crowib, but nothing like the appearance of a child. Though her flooding was now but finall, in confideration of her having enjoyed no reft for three nights before, the was, by my direction, put to bed, and took a compofing draught, whichi made her fleep ahout two hours; but the waked with fecmingly ftrong pains. I examined her again, and introducing my fore and middle fingers into the ragina, felt fomething which I mittook for clotted blood. It filled both my hands when I brought it away, and appeared to be a large bundle of hydatides, connected one with another by an infmite number of fmall fiender filaments. Thefe bladders contained a clear lymph, and were of different fizes, fome as large as my thumb, and others as fmall as a pin's head ; and her pains continuing, fhe evacuated ris many a's filled a two"quart bafon; thus delivered, the was frced from her pains, her flooding ceafed, and the woinb contracted to the fizie of my firt. Neverthelefs, fhe was frongly poffeffed with the notion that there was a child remaining; and earneltly begged that I would Ering it into the world. I affured he that fhe was already delivered of what the had miftaken for a child: and having preferibed what was neceffary, left her very well fatisfied and compofed. Next day I found her eafy; fhe continued to do very well, and, at the writing of this cafe, was in the fifth or fixth month of pregnaney.
N. B. She had been delivered of two children before fhe was troubled with the hydatides.

Mr. La Motte, in his xith Obfervation, gives an accournt of a woman that imagined herfelf gone with child above five months, whö was dali vered of a mole, or fomething of that nature, as big as two filts, compofed of an infinite number of vefieles, tied to one another by nembranes, and which held together like a fwarm of frogs, after being exceffively weakened with a continual lofs of blood for eighteen days, which was flight at firt, but became very violent before delivery; and fopped immediately after.

In Obfervat. xvii. he gives an account of a woman that imagined herfelf gone feven or eight months, who paficd a great quantity of waters, which; he thinks, was a real dropfy of the uterus.

In Obfervat. xviii. he gives a cafe where the abdomen inereafed to a great height, to the eighth or ninth month; and, although the woman had her menfes, the imagined the was fo long gone with child, having miffed one period at the beginning of lier reckoning; but inftead of being delivered of a child, fhe, for feveral days together, paffed an incredible quantity of wind, making the fame noife as when it vents itfelf at the azus, but involuntarily. Vide Ruyfeli, tor. i. obfervat. 13.

In Phil. Tranf. No. 30 , p. 2387 , there is a paper by Mr. J. Young, giving an account of halls of hair, with bones in the middle, fome like teeth, others refembling the mandible, with a few fockets and teeth in
them, contained in different parts, as the uterus and otaria, \& co. There are alfo atcounts of the famc kind, by Dr. Edward Tyfon, No. 2, p. II, and by Dr. Sampfon, No. 2, p. 49 .

## C O L L.E C T I O N IX.

Of poljpus, foirrlofity, and cancer, in the uterus and vagina:

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& \text { [ Vide Part i. Book i. Chap. iii. Seê. ix. ] } \\
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& \text { OF THE P OLYPUS. }
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AWOMAN turned of thirty, who hever had bore children; corfulted me about a very extraordinary diftemper. One of the febaceous glands, on the right fide of the os externum, and clofe to the caruncule myrtiformes, had infenfibly increafed and fwelled to fuch à degrec, that I found it as large as a middling fear; hánging from the part by a long neck as thick as my little finger, and about half a yard long, fo that the tumour reached down to her knees. I perceived the lower end, which was the largeft, excoriated, and appearing like an herpes, though fhe felt no pain; and from this part a fmall quantity of blood was difcharged during every moultrual evacuation. A ligature being applied to the neck of the timour, clofe to its origin, it was amputated, and the wound cured without any difficulty.

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AMIDWIFE being called to a woman in labout, about the age of twenty-fix, felt not only the child's head puthing down throngh the os internum into the vagina, but, at the fame time, another large, firm, sound fubftance at the fide of the head, protruding in the fame manner. A male practitioner being confulted, could not difcover the nature of this tumour, and left the patient, tellinit her it was furgeon's work. Neverthelefs, the head was with great difficulty forced bcyond the fwelling, and the child delivered, thongh the midwife was unjuftly accufed by the neighbours of having pulcd down the titerus. Some months after her delivery, the tumour inflamed, and matter being formed below its furface, was dif: chargce to fuch a quantity as cmaciated and enfeebled the patient. A gentieman bring called to her affittance, defired my advice; but whicn we confulted together, no right judgment could be formed, becaufe the tumour filled up the whole vagina, and the os internum could not be felt. We recommended a milk-diet, and fome time after the confultation we were called again, when we found the fwelling forced down without the external parts, and could plainly feel the os internums to the fide of which the tumour adhered by a very flort neck, abont an inch thick, arrd of a iivid colour towards the lowe: part. The os internum was pulled down in fuch a manner that the lips were perceivable, together with the upper part of the tumour, which had not as yet changed colour. Round this, a firm. ligature being made, the tumour was amputated, when we found the lower parts of its neck already livid. Refore this feparation the pationt had
been tormented with viokent pains from the pulling down of the uterus and the ftraining of the ligaments, and at the time of the operation was very much exhaulted ; fo that fhe died in two or three days after the exeifion.

The body being opened, the under fide of the uterus was found mortified, and the right fide adhering to the neighbouring farts, by which the orarium and Fallopian tube of that fide were eovered and concealed. The tumour being eut open, appeared to be a folid, firm, glandular fubftance.

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## Conmmuicated in a letter from Mr. Ifolyorke.

THE child prefented with the back, and was cxitracted footling; and after delivery, the placenta came away with little or no affittance; but the uterus fill continuing remaskably large, Mr. Holyoake fufpected that there was contained in it a great quantity of coagulated blood, or another child. He accordingly introduced his hand into the womb, and felt a large flefhy fubflance adhering to the left fide of the fundus, with fimall excrefeenees hanging from it like teats. At fi.it he was afraid of extracting it, Ieft it hould be-followed by a mortal hamorrhage ; but, confidering that a dangerous fionding might enfue from the uterus being thus kept diftended, he refolved to feparate ;his fulffance; which did not come away without conliderable force, and weighed ncar two pounds, being of the texture of a polypus.

As he defired my opinion of this affair, T obferved in my anfwer, that glandular excrefecnecs, or polypufes, are commonly attached by veffels, and could not have bern ieparated with the fingers; the placenta, when left and long retained in the uterus, is compreffed into a fehirrious hardnefs; that the nature of molas is not yet afcertained ; and, though fometimes unaecountable appearances oceur, this fubftanee feems to have been 2 large coagulum, which had aequired fueh firmmefs by preffure, ina flooding whieh might have happened before he arrived.
I myfelf had extracted as large coagula after delivery, though of a loofer texture; but thofe formed in repeated floodings, before delivery, are more folid, and affune the appearance of a fefly fubitance.

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IWAS called to a woman by Mr. Pinkfane, who informed me that the had been much weakened with large difcharges from the utesus, at firft fanguincous, and afterwards of a brownifh colourand foctid fmell : on examining the vagina, I folt the uterus largely itretened, with little or no neck, and a little above the pubes, the abdomen felt like one in the fixth month of pregnancy. The os uteri was thin, and fo muchopen as to receive the end of my finger; and I found a finall fubfance, like a polypus, lying loofe within it. 'iwo days after, being again ealled, the above gentleman told me that the woman had fomething like pains, that the os uteri was more open, and he could feel the fubtanec adhering to the uterus by a fimall neek. This was really the eafe; but when he preflied on the ahdomen to keep down the uterus, I felt a contraction higher, as if the neek of the polypus adhered to another nound hard fubfanee, mueh larger and higher in the uterus. In two or three days, I was again ealled, and informed he had hooked down the polypus with his finger through the os uteri into the vagina. I then fownd it arote fenfible, adhering to a larger fubftance; yet at no time did

I perceive any difcharge on my finger. She was aged thirty-eight years, had been married about a year; and although regular in the menttrual difcharge, her bignefs gave forne fufpicion that fhe might be with child. She had been taken with frequent ficknefes and retchings; whieh, about fix weeks before I was called, had increafed, and the was every now and then attacked with violent pains; then followed the large difcharges, which weakened her fo much as frequently to throw her into dangerous faintings. Every shing necefiary was ordered as to diet and medicine, to fupport and keep up her ftrength; but the difcharge was fo great, that the at latt funk under it and died. When the abdomen was opened, a large quantity of brownifh foetid fluid was difcharged, and a tumour appeared at the lower part, larger than a child's head, which we took firt for the uterus; and from which we, with great difficulty, feparated the peritonæum, omentum, and inteftines; all thefe adhering fo firmly to one another that we could foasce dittinguin and §eparate them withour tearing the parts. Finding we could not be informed preperly, as the uterus lay in the abdomen, all was carefully diffected; and, when taken out, we found this large tumour was not the womb. We then endeavoured to find the ovaria and Fallopian tubes; but all the neighlecuring parts adhered all round fo ftrongly that there was no fuch thing to be difcovered. Having dilated the fore part of the ragina, we difcovered the little polypuslying in it, about the bignefs of a kidney-bean, with a flender neck about an inch long; and opening the os uteri, we perceived a little cavity in the neck that had been ftretched by the polypus which it contained. Tracing farther, we found the cavity of the fundus uteri, to our great furprife, no larger than in an unimpregnated ftate, and the neck of the polypus admering, as we thought, to a round hard tumour that was contained in the fubitance of the uterus, on the left frde of the nect:. This being diffected out, feemed to be one of the glands, increafed to the dize of afmall pullet's egg, covered with the internal membrane of the uterus; and the polypus adhered only to the infide membrane, and not to the gland. It was allo covered by the peritonxum on the left fide, and when cut open, was of a whitih folid fubftance. The polypus, when cut, was fofter, and in colour and confiftence like a kidney. We then examined the large tumour, at firt taken for the uterus, which was of a livid colour, and full of the fame foerid brownith fluid that was found in the abdomen. We obferved a fmall opening at the back part, by which this had been gradually difcharged into the abdomen, and another opening lower down through the rectum, which was livid. This circumftance fhowed that the fluid trickled from the turnour into the abdomen, and from thence through the rectum and findament, and not from the uterus through the vagina, as had been imagieed. This tumour appeared to proceed from the fundus uteri ; and, in examining more narrowly the fubftance of the uterus, which was white, folid, and a little thicker than common, we found another gland, near as big as the firft, and a little above, on the left fide of the fundus, and contained aifo in the fubftance of the uterus; but when ive cut open this gland, it was grown livid on the infide. We then concluded it was more than probable the large tumour was originally one of thefe glands that had increafed gradually as the others; that it had turned cancerous on the infide, and had been gradually ftretched more and more with the cancerous fluid that had burft through, and was difcharged as was before obferved. The infide of the tumour was full of little hard knots, of the bignefs of hemp-feed, and the coats about one-eighth of an inch thick. The pain waias mush of the fame kind as a burning heat and
tearing, attended with a heaic fever, fyncopes, a low, quick, and fometines an intermitting, pulfe. Thefe fymptoms, before I examined the os uteri, made me imagine there was a eancer in the uterus; but, finding the os- uteri foft, and hot fcirrhous, and in large hard bumps, as in other cafes when cancerous, 1 was at a lofs what judgment to form, though I imagined it was more probably a gland or polypus, increafed to a large fizce in the iterus, and turned cancerous, and that the fmall polypus was an appendix from that ; and as fhe had fomething cvery now and then like labour-pains, the large polypus, if it adhered to the uterus with a fmall neck, might be at laft forced down into the uterus and taken off by a ligaturc.

## $C A S E \quad V$. <br> Communtcatcd by Dr. Harvic.

AWOMAN who had bore feveral ehildren, and was of a delicate conftitution, about the age of forty-five began to be irregular as to the catamenia. Sometimes fhe had frequent returns, and at other times at an interval of two or three months, and generally much in quantity; always attended with more or lefs pain. She continued in this way for two ycars, when fhe was feized with volent throbing pains above the left groin, and had no relt unlcis fhe took an opiate. A large quantity of ferous foetid matter began to be difcharged from the vagina, which by degrees brought her very low. She had confulted feveral phyficians, but found no relief; at length I was fent fer to in:form her phyficians of the ftate of the uterus. Upon examining, I found all the back part of the vagina filled up with a large hard fubfance, the os uteri more forward than common, with large, hard, and ragged lips; from which the doctor and I agreed that the uterus wi.s fcirrhous and cancerous. She now alfo had great pain above the left groin, which we fuppofed to proceed from the ovaria and ligaments being alfo affected. She made water with great difficulty, and never went to ftool unlefs by the force of medicines. She had now no intermifion of pain but by opium, which at laft was increafed to thirty grains intwenty-four hours. For feveral months before death . The continued in this deplorable fituation. I was aiterwards defired tọ open the body, and found a confiderable quantity of thin ichorous matter, of a very offenfive fmell, floating among the inteftines; the peritonæum, the external coat of the inteltines, was croded every where as tiar as the matter had infinuated, and the inteftines were every where adhering. At fint I was at a lofs to know from whence this matter came, or indced to dillinguifh one part from anotler; but upon careful infpection found that the right ovarium was fchirrous, one end of which had formed into a large abfcefs and broke. The uterus was alfo fchirrous, and about the bignefs of a goofe-egg, and preffed fo clofe to the pubes that no part of the bladder could be feen: the infide of the uterus, when opened, was wholly ulcerated. I then looked for the left ovarium; but not finding it in fotu, and obferving the uterus thrown clofer to the pupes than might be expected from its bignefs, it came into my mind that it might have fallen down behind the uterus; which accordingly was the cafe, the upper end of it lay upon the laft vertebra of the loins, the bulk of it filling up all the concare part of the facrum. The length of this ovarium was five inches; in thicknefs four inches, entirely fchirrous. Although it was not attended to in the diffection, yet the great quantity of matter that was difcharged from the vagina when the patient was alive, muft have been from the importhumated ovarium corroding and mal.ing its way through the
parts (wide cale iv.) as that did into the rectum, which prevented an afcites in the abdo men.

Bonetus, in his Sepulchretum, lib. iii. fect. xxxii. obfcrv. vi. viii. \&c. gives fereral intancea of farcomatous and glandular tumours, which were militaken for the utcrus, until the contrary appeared upon diffection.

Saviard, obferv. xxxvi. mentions a woman who imagined herfelf eleven months gone with child. The os internum being dilated to the bignefs of a crown, they endeavoured to extract the extraneous body, but unfuccefsfully. Since her imagining herfelf with child, the had every month a very confiderable difcharge of blood, which weakened hir fo much that fhe died. On opening her body, there was found, adhering to the fundus uteri, a flefhy mafs of the hignefs of an ox's heart, covered with a membrane, which feemed a continuation of that of the uterus, to which it adhered by a longifh neck fmaller than the tumour. There was a confiderable cavity found in it that extended from its bafe to its point, into which the vcins emptied themfelves, and from whence the monthly hæmorrhage Howed. The fubftance of it was glandular and feirrnous, and its point gangrenous from the violence in the extraction. Vide M. Levret's Obfervations fur la Cure radicale du plufieurs Polypes de la Matrice, \&:c. Paris 1749 .

In the Philofoph. Tranfact. No. 481, p. 285, is a letter from Peter Templeman, M. D. to William Beattie, M. D. Fellow of the Koyal College of Phyfici ins, London, and F. R. S. coneerning a polypus at the heart, and a fehirrous tumour in the utcrus.

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of the scirrius and cancer in the uterus and vaginan

IASSISTED in opening the body of a woman turned of feventy, who, for a long time before fhe died, had been very big in the abdomen, and fubject to retchings and colic pains: the firt diforder was fuppofed to proceed from water contained in ciftufes, and the other complaints from a diftemperature in the fpleen or kidneys.

The adipofe membrane and omentum were of an extraordinary thicknefs. The uterus was almoft as big as a child's head, and feemed very folid to the touch; when laid open, we could not perceive the leatt appearance of a cavity, which, in all probability, was filled up by the increafe and preffure of the glands. The gall-bladder contained about twenty ftones of different fizes, while the ovaria were fmall and fhrunk.

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C & A & S & E
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AN old female fervant belonging to a lady in the country died in a very cmaciated condition, her belly having been increafed to an enormous fize. The abdomen had begun to fivell foon after the eatamenia ceafed to flow ; and as it increafed to a confiderable bulk, the was afflicted with a difficulty in breathing, in making water, and going to ftool. Thefe complaints increafed in proportion to the augmentation of the belly, particularly the difficulty in breathing; which would not allow her to lic in bed execpt when fupported by pillows; though fhe was eafier when up, efpecially when fufpended by the arm-pits. A great number of deobftruent medieines were adminiftered, as well as hydragogues; for the cafe was fuppofed to be dropfical; but every thing proved ineffectual ; and when fhe was opened, we were
not a little furprifed to find the fwelling proceeded entirely from the uterus ; which, when taken out, weighed about twelve pounds. It was attogether folid, without any perceivable cavity, of a white colour, and firm glandular confiftence; and had preffed upon the inteftines in fuch a manner, that about four inches of the ilium were mortified. The ovaria were likewife much emaciated.

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C A S E \text { III. }
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WHEN I opened the abdomen of the woman mentioned numb. ii. cafe i. collect. viii. I found the uttrus nearly as large as that defuribed in the firit cafe of ihis number; but the furface, inftead of being mooth, was rendered unequal by large indurations as hard as a cartilage : the ovaria were affected in the fame manner, and feveral fcirrhotities appeared upon the omentum. The cavity of the uterus was irregular in confequence of thofe indurated fwellings, the interltices of which were deeply ulcerated; the os uteri was large, unequal, and fludded with tumours as large as pigeon's eggs ; and the vagina was full of little ulcers with callous lips.

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C A S E I V .
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IWAS iately called to a woman about the age of forty-five, who had never bore children, but, for ten years, had been irregular in the menftrual difcharge, and always in great pains before its appearance ; fhe had likewife been aftlicted with the fluor albus in great quantity. I felt a large hard tumour filling up all the back part of the vagina, to which it ciofely adhered by a large bafis; and it was with difficulty I could feel the os uteri caft forward toward the pubes, and fludded with large indurated fwellings: from which fhe had been for feveral months fubject to excruciating pains, fo as to be obliged to receive a clyfter every evening, with an opiate after its opcration. She had likewife from time to time large evacuations of blood, as well as the other difcharge in great quantity, often of a brownifh colour and very foutid fmell.

I have known a great number of fuch cafes, which commonly begin at the time when the menttrual difcharge ceafes, being occafoned by different accidents and irregularities; and generally preferibe vengection anice a month, and fome gentle laxative once or twice a week; by which means the uterus, though firrhous, is kept in a ftate of indolence, without in: flammation, or degenerating into a confirmed cancer.
N. B. The above patient died foon after the cafe was fent to the prefs.

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\begin{gathered}
\text { C O L L E C T I O N X. } \\
\text { Of complaints proceeding from uterine gefation. }
\end{gathered}
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## OF NAUSEA, VOMITINGS, ANDLQNGINGS:

 [ Vide P̣art i. Book ii. Chap. i.]IWAS called to a womain, who having been attacked in the fecond month of her firt pregnancy sivith violent retchings and vomitings, was perfuaded by fome of her acquaintance to take a vomit, which they fuppofed would remove the complaint. She alccordingly took twenty-five
grains of ipecacuanha; which operated upward and downeward with fuch violence, as threw her into convulfions and floodings; and when I came to her affiftance, fie was extremely low and faint. She immediately fwallowed fifteen drops of liquid laudanum in a tea-cup full of mint-water ; and I preferibed the following mixture to be taken occafionally:

B Tinct. rofar. rub. Frfs. Laud. liquid. gutt. xv. Conf. fracaf. zij. Mi. and between whiles a little burnt clarct. The evacuations foon ceafed, and the enjoyed tolerable reft that night ; but the difcharge of blood returned next morning, and pains coming on, the mifcatricd the following evening.

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C A S A E \quad I I .
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IN about four months after this accident, the fame woman became pregnant ; and being again attacked with ficknefs at her ftomach, and retchings. in the bcginning of the fecond month 1 was called to her relief. Finding fle had exceeded the ufual pcriod of her catamenia about a week, I ordered eight ounces of blood to be taken from her arm : and the was immediately relieved. In four weeks after this evacuation, the retching began to rcturn with more violence, the venæfection was repeated, and the complaint abated: fhe was twice afterwards bled, at the interval of four weeks, with the fame fuccees, and happily went on to her full time: nererthelefs, though thefe evacuations greatly diminifhed the con:plaint, it in a fmall degree recurred every morning till the middle of the fifth month.

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C A S E \quad I I I .
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AIVOMAN, fubject to nervous complaints, was, in the fecond month. of her fecond pregnancy, attacked with violent retchings; for which The underwent gentle evacuations, and took draughts with the neutral faits to no purpofe. The complaint, however, abated in confequence of her going into the country, and drinking affes-milk for the fpace of fix weeks: but when the returned to town, the vomiting recurred with greater violence, and fhe mifcarried in the fourth month.

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C A S E \quad I V .
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IWAS called to a woman who had been fuddenly feized with a violent colic, and frequent ftrining like that of a tenefmus. She being coftive, I ordcred a clyfter, which operated feveral times; but the ftraining ftill continuing, I gave her twenty drops of liquid laudanum in a little white wine whcy. In the mean time her fifter, in putting her to bed, obferved that the had undcrgone a large difcharge of blood, and defired me to examine I was not a little iurprifed to find the head of a foctus forced down into the vagina; however, I helped it along, and the placenta followed. This might be in the fifth month of her pregnancy. I found her next day in a fair bay of recovery; and was then informed that fhe had been privately married; and the preceding night, in order to couceal this ftep, had eaten heartily of a difh which was known to have been her favouritc, notwithfanding a naufca, which threw her into thofe fevere colicpains and ftrainings that occafioned the mifcarriage.

## $C A B E \quad V$.

AWOMAN who had bore children, been uncommonly healthy during pregnancy, and ufed to banter her female companions on account of their antipathies and longings, was herfelf, when four months goric with child, one evcning unaccountably feized with a longing for an astichoke, when fhe heard them cried in the ftreet; but as they at that time fold at an high price, fhe refolved to check her defire as a piece of foolifh extravagance, and went to bed without having indulged her $\urcorner$ ppetite. She could not fleep, however, but became rettlefs aud anxious, felt a craving and uneafy fenfation at her ftomach, and could think of nothing but the pleafing and relifhing difh of which the had baulked her own inclination. Towards moming fhe was attacked by violent fafmodic contractions in her bowels, and I was juft called in time to receive the little fuetus: but there was no difcharge from the utcrus; fo that I knew the placenta ftill adhered, and refolved to wait with patience until it thould be difengaged and come away of itfelf. Being coltive, fhe received a clyfter; after the operation of which fhe fwallowed the following draught; to be repeated every four hours, for three or four times:

Ex Confect. damocrat. Đij. Aq. cinnamom. fimp. Зjfs. Spirit. fyr: croci $\bar{a}$ зij. M.
By thefe means fhe obtained reft, and a plentiful fwcat; and next night there was a fmall difcharge from the uterus, fucceeded by after-pains, which difcharged the fecundines: Vide La Motte, obfery. 43; and 44.

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N U M B_{0} I I_{0} \quad C A S E \quad I_{0}
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## OF OBSTRUCTED URINE AND COSTIVENESS.

BEING called to a woman, who, in her firf child, had a total obfruction of urine about the end of the fourth month, I found her in great. pain from a diftention of the bladder; for the fuppreffion had continued full thirty hours ; and immediately gave hereafe, by drawing of the urine with the citheter. For feveral days the had made water with fome difficulty, and but a very little at a time; and when I examined, I felt the uterus lower than ufual. After having evacuated the bladder, I ordered her to be bled, and a clyfter to be adminitered, as the was coftive. Next moraing I found her in the fame condition as before, fne having paffed no urine fince the catlieter was ufed. I again examined the ftate of the uterus, and felt it forced alill lower do an by the preflure of the over-charged bladder: indeed it was folow, that I could feel the length of the neck, and the ftretching of the fundus, which feemed to fill up the whole pelvis. I likewife examined by the rectum; when finding it prefs ftrongly againt the facrum as well as the pubes, and feeling it uncommonly hot, I concluded: tliat its whole body was inflamed. When I preffed my finger : yainit the os ateri, fo as to raife it up, fome of the urine was difcharged, but this being in finall quantity, I was fain to have recourfe to the catheter; by which fhe was again relieved of the pain above the pubes, although the continued to complain of great pain lower down in the pelvis. She had a quick pulfe, accompanied with other feverith fymptoms, for which bleeding was repeated to the quantity of ten ounces; and as the clyyter had not operated according to expectation, I preferibed a folution of mann. 3 j . fal. Glaub. 3ij. in aq. fontan. and directed that the clyter fhould be repeated in cafe this hauftus fhould not begin to operate in two hours. Next day I was called again to evacuate the urine, an.l found that the draught had operated
feveral times; but the pains in the vagina fill continued, together with the fever, thongh not fo ligh as the preceding day: I then advifed her to be cupped and bathed, by which means her complaints abated; yet I was obliged to draw off the urine once in twenty-four hours, for elcven days, before the could pafs it in the natural way, and then fhe went on to her full time. She began to be croubled with this fupprefion about the fame time in her next pregnaney; but by bleeding; and keeping her body open, it was prevented from being total. I have lad two other patients troubled with the fame complaint abiout the fame period of geftation; which continued fourtecn days, and was overeome by the fame merhod, namely, by repeated bleedings and elyters, together with the affittauce of the catheter. I have frequently known a difficulty in making water happen at the end of the fourth, and vanifh about the middle of the fifth month.

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C \quad A \quad S . E \quad I I:
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IWAS lately called to a woman in the fifth month; and felt the fundus uteri forced down backward to the lower part of the vaigina, the os utcri being forward and above the infide of the left groin. The neck and under part of the bladder were fó preffed, that the patient had not urined for feveral days; thie vefica was ftretched up to the ferobiculus cordis, and a fluctuation was felt as in an afcites. 'The male catheter was ufed, becaufe the other was too fhort, and emptied a great quantity of urine ; fo that the diftertion of the abdomen confiderably diminifhed.

Next day, after the fäme opetation, fhe mifcarried, confequently the obfruction was removed: buit being greatly emaciated by want of nourifhment; fhe was in two or three days carried off by a diarrhoea.

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BEING called to ä woman whó was fe̛zed with labour-pains, and a fmal degree of flooding, in the third month, occafioned by a violent tenefmus, I ordored fix ounces of blood to be taken from her arm, and preicribed an anodyne draught, which relièved her for feveral hours; but the pains returning, fhe foon mifearricd: 'The fane accident lad happencd to her twice before, fromi the farmic caufe ; for the was naturally very coltive: She no fooner fufpected herfelf of being with child again, than my adviee was demanded; and the being of a full habit, I prefcribed venxecetion to eight ounces, and a laxative clyyter to be injected immediately. Then I directed her to take about thrce drachus of the elect. linitiv. every other right, to live chiefly on broths and boiled meats, with boiled roots and greens, and, as it was then fummer, to eat ripe fiuits. By this regimen her body was kept upen, and fhe went oni to the full time:-Vide La Motte, voferv. li. Ef frig:

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N U \text { M } B . \quad I I I . \quad C A S E \quad I .
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of swelifng of the haimorrhoms, megs, thighs, and pudenda.
I VISITRED a woman in the fourth month of her pregnancy, who was very muchafficted with coftivenefs and hamorrhoidal complaints, to which the was maturally fubject. At this time, however, they had increafed to a great degree ; and the pain was fo fevere, that flie had enjoyed little or no reft for feycral nighlits: I grefcribed venafection, to the
quantity of ten ounces; and as fhe was averfe to a clyfter, ordered a holus, confifting of fix Flore fulph. Oj. Pulv, e chel. cancror. fimp. Gfs. Elect. Icnitiv. Zj. Syr. rof. folut. q. f. to be taken at hed-tince, in fome water-gruel, nade with frefh butter. If this fhould not operate plentifully next morning, I dircited it to be reinforced with fal. Glaub. Zij. mannx ミj. diffolved in water. She accordingly took both prefcriptions, in confeguence of which the had three motions. The fphinter ari was fo fivelled, inflamed, and painful, that I thought it neceliary to foment the parts with the fteams of an emollicnt decoction, in which fome fal amnoniac was diffolved, with a mixture of firit of wine and vinegar. Notwithtanding the fe applications, the pain, fivelling, and fever increnfed ; and being afraid to ufe fcarifications or leeches to a woman in her condition, without farther advice, I defired a phyfician might be called. He ordered a repetition of venalection and opening medicines, by which the fever was allayed; but as the hemorrhoidal fivellings did not fubfide, we ventured to apply leeches to the parts; about five ounces of blood were difcharged, and the fwelling inmediately fubfiding: the proceeved lappily to the full time.

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C A S A B \quad H .
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IATTENDED a woman whofe legs had begun to fwell in the ferenth month of pregnancy ; and this fwelling, which was of the leucophlegmatic or anafareous kind, continued, without giving her much diditurbance, till the middle of the ninth month; when being obliged to walk a confiderable way upon fome particular bufinefs, fhe, on her return to hor own home, found her left leg and thigh exceffively fwelled and painfui. Indeed, when I was called, I began to fear a mortification would enfue, for the fkin appeared of a livid hue. The woman being ot herwife of a ftrong and healthy.conftitution, I immediately ordered twelve ounces of blood to be taken from her arm; and, as the was cotive, prefcribed a purgative clyfter, which operated three times. Her leg and thigh were fomiented with a decoction of the fame nature as that deferibed in the preceding cafe; and, as the pain continued, an emollient cataplafm was applied over all the parts affected. She enjoyed little relt that night ; and finding her fever, pain, and reftleffinefs remaining next moraing, I ordered her to be bled again to the quantity of ten ounces. I directed her to take draughts with the neutral falts, to drink plentifully of an emulfion with nitre, and continue the ufe of the fomentation and pulticc. Next day the pain and tenfion were a little abated; but her pulfe being fill quiek, the was again bled to the quantity of eight ounces, and the internal mnedicines, with the external applications, coatinued. By thefe means the inflammation was carried off in a few days; and in a little time, fhe fell into labour, and was fafely delivered.

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C \text { A S E III. }
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AWOMAN of a lax habit of body, during her firft pregnancy, ran into the extreme of being too abftemious, and drank nothing but water. In the fourth month her legs began to fwell; and when I was called in the ferenth, I found not only her legs and thighs codematous, but allo the la-
bia pudendi fo much fiwelled that fhe could not walk. This fwelling, however, fubfided, in confequence of a few puntures with the point of a lancet, I then prefcribed repeated dofes of the confectio cardiaca, and risected her to drink frong beer or wine, inftead of fnall beer or water. by thee means fhe recovered a little from the languifing condition in which fle was, though the fivellings of the legs filil continued; and when that of the labia returned, fo as to prevent her taking a little exercife, it was reduced as bcfore by the panctures.
In this manner the weat on in her pregnancy to the end of the eighth' month, when fhe was taken in labour ; and though her weaknefs rendered the cafe tedious, fhe was fafely dclivered of a very fmall child that lived fome weeks. She recovered tolerably well of her lying-in for the firt twenty days, and the ocdematous fivclling fubfided ; but her conftitution having been fo much weakened and impaired, the whole furface of her body began to be puffed up with an anafarca. This cafe bcing without the fphere of practice to which I had confined myfelf, I defired that other advice might be ufed ; notwithfanding which the difeafe ftill increafed, and carried her off in about fix weeks after her delivery. Vids La Motte, obferv, xl5, xlyi. xlvii.

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N U M B . \quad I V . \quad C A S E
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Of pains in the back, belly, fides, togetber with vomitings and diffrulty in breatbing, toward the enti of preguancy.

IWAS called to a woman of a weak and lax habit of body, in the third month of, her pregnancy, who was feized with violent pains in her back, and a difcharge of blood from the uterus ; but before I a rrived fhe had mifcarried. I then underfocd the had formerly fuffered a great deal from violent floodings in her fecond pregnancy, when at her full time, by which her health was weakened and impaired : fince that misfortune fhe had four times mifcarried in the third month, notwithftanding her having been bled by way of precaution; which indeed the imagined had haftened the mifcarriage, by throwing her into fainting fits, accompanied with pains in the back, which were always the fore-runners of flooding. I advifed her to go to Bath, and drink the waters, in order to ftrengthen her conftitution before her next pregnancy; and this expedient had the defired effect ; for foon after her return the became pregnant, and went on to the full time.

I have had feveral inftances of women of a lax habit who could not beas eracuations, but mifcarried in confequence of them.

## $\mathcal{L} A$

AWOMAN of a healthy conflitution was attacked, in the fourth month of her fecond pregnancy, with a violent pain in her back, for which I ordered ten ounces of blood to be taken from her arm; and as fhe was conftipated, a laxative clyfter to be injected. By thefe means the violence of the complaint was abated ; but next day her pulfe continuing quick and full, the venxefection was repeated to the quantity of eight ounces, and a ftrengthening plafter applied to the back. Thefe precautions being taken, fhe procceded tolerably well till the cighth month, when the was feized with flretching pains in the abdomen and fide. I again preferibed
phlebotorny
phlebotomy to the amount of eight ounces, and directed the parts affected to 'be frequently anointed with pomatum. By' which means her complaints were relieved, and fhe went on to the full time.

She had mifcarried in the third month of her firf pregnancy, neglecting the precaution of being bled when the was feizcd with pains in her back, and other plethoric complaints. I have been confulted in many fuch cafes, and always find, that women of a full habit are relicyed by venæfection at any time of pregnancy.

## $C A S E$ III.

AWOM.AN was, toward the end of the eighth month of pregnancy, attacked with romitings and a difficulty in breathing; which increafed to fuch a degree, that fhe could not lie in bed, but was fupported by pillows, in a polture between lying and fitting; nor could fhe retain either folids or fluids on her ftomach. I was called about the middle of the ninth month, when I found the utcrus ftretching higher up than is ufual in the athomen. I was informed that the had nearly the fame complaints, though not to fuch a degree, in two former pregnancies; that fhc feldom: went abroad, took little or no execcife, but frequently lay on the bed, and that her drefs had been always loofe. 'In confequence of thefe hints and obfervations, I fuppofed that her complaints proceeded from the preffure of the uterus, and ordered fix ounces of blood to be taken from her arm. Ilikewife prefcribed draughts with the neutral falts; but thefe being rejected by the fomach, I dirceted about half a pint of frong beefbroth to be injected by way of clyfter four or five times a day, to fupply the want of nourifhment by the mouth; and this fuccedaneum had the delired effect. Indeed I diffolved four grains of opium in the two firit that were adminiftered, in order to prevent their being difcharged; but when the inteftincs were emptied, they remained without the opium, and were. taken up by the abforbent vefiels.

By thefe clyfters fhe was effectually nourifhed, and the dy fpnoca telieved by frequently taking the air in a coach, till fhe arrived at the full time. when fhe was delivered of a finall weakly child, and a great quantity of water.

In her next pregnancy fhe laced tighter at firt, flackening by degrees as The increafed in bulk, and took a good deal of cxercife; by which precautions her former complaints were prevented from returning.

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C A B S E I V .
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IATTENDED a patient in her firf labour, of a leucophlcgmatic habit, lived in an indolent manner, and had the fame complaints that arc deferibed in the preceding cafe, though not to fuch a violcnt degree. I was not called until he was in lahour, which proved very tcdious from hrer weakiefs ; and I advifed her to take more exercife, if ever the fhould be pregnant again. "About two years after this period, I was fummoned again'; but fhe was dclivered fome hours before I reaclied the place of her abode. Far from having followed my advice, I underitood fhe had aciel in diametrical oppofition to it ; dreffed in a loofe fovenly manner, without even walking in her room, but rather chofe, toward the end of her
pregnancy,
pregnaney, to be always in bed, fupported with pillows: the dyfpnca and pecthings had begun fooner than in her firtt pregnancy, and fhe feemed to be in a very weak and dangerous condition; for after delivery, her complaints did not abate. I advifed thofe who were prefent, to fend immediately for the phyfician of the family, and left her to his care; but the rois reite was fo much exhautted that fhe died in two days. As for the child, it had been dead for feveral days before delivery, - Vide La Motte, obferv. 1.

## C O L L E C T I O N XI. <br> Of dijeafes that occur at other times, as zucll as in uterine gefation.

## $N \quad U \quad M \quad B . \quad I . \quad C \quad A \quad S \quad E \quad I$.

 OF STONES OR GRAVEL IN THE KIDNEYS OR BLADDER.[Vide Book ii. Chap. ii.]

IWAS called to a woman in the feventh month of her fecond pregnancy, who had been feveral years fubject to violent gravel-pains in the kidneys, from which divers fmall fones had paffed into the bladder, and were difcharged with the urinc. When I arrived, the was in great torture from a ftone, which the imagined had ftopped in the right ureter; fhe was feized with violent vomitings and ftrainings, and her urine being high-coloured. I was afraid of a mifcarriage. In this apprehenfion, I ordercd ten ounces of blood to be taken from lier arm, a clyiter to be adminiftered, and after its operation, prefcribed ten grains of pil. Matth. by which means the violence of the pain was allayed, and in a little time the ftone paffed into the bladder. She was afterwards, from time to time, fubject to pains from the paffage of gravel, but not to fuch a violent degree ; though it was much inore fevere, and returned more frequently during pregnancy, than at other times.

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C A S E \quad I I .
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> Communicated by Mr. Arcbdeacon, furgcon; at Si. Neot's.

0NE Gibls, the wife of a coal-porter in this place, had long complained of violent pains in the bladder, with other fymptoms of a fone; but met with little compaffion, becaufe fufpected of idlenefs, rather than of having any real diforder. She afterwards proved with child, and endured great torment all the timc of geftation, till fhe fell in labour, when the midwife bcing called, was furprifed to find a hard body prefenting before the head of the child. She did not know how to att upon this oecafion; but the patient's circumftances not permitting her to employ a male practitioner, patience was the ouly remedy fhe had to fupport her through a long and painful labour. At laft the midwife felt fomething come away, and, upon examination, found it was a ftone, of the fhape and fize of a goofe's gizzard, wcighing five or fix ounces, which fhe afterwards gave to Dr. Waller, of Cambridge. The child followed immediately after it was difcharged, and proved to be a boy, who is now a blackfmith in London, about twenty-eight or thirty ycars of age. The woman recovered very
well, but was troubled with an involuntary emiffion of urine: the afterwards bore a daughter, and lived feveral years, until the was fhot by accident at a genteman's houfe in this town.

In Phil. Tranf. No. 202, p. 817, there is a paper by Dr. Thomas Molinetre, giving three cafes of young girls of fix, ten, and eleven years of zge, from whom thones were extracted by dilating the urethra without cutting, although in the laft the ftone was of a large fize. And another paycr, in p. 818, of a woman who voided a fonc that weighed above two ounces and a quarter. A ftone about the fame magnitude, was voided by another woman of fixty-three years of age, as attclled by Dr. Richard Beard, No. 178 , part v.

There is alfo a pafer from Dr. Beale, No. xviii. p. 320, defcribing a tone taken out of the womb of a woman by incifion, that weighed near four ounces.

## $C A S E I I$.

BONETUS, in his Sepulchretum, book iii. fect. 38, obf. r, relates a cale of a woman who was for many years afllicted with a molt vioIent pain in the left kidney, and though fourteen timcs with child, was Wways delivered before her full time, in the cighth or beginning of the ninth month. When the died, he opencd her, and found the left kislney quite wafted ; the right kidney was very much fwelled, and contained a very large fone.

The shirtcenth cafe was that of a woman who was for many ycars fubject to convulfive diforders of the hyiteric kind, whịch were morc violent when the swas with child; and fhe commonly mifcarried at the end of the third month, and at laft dicd of an apoplexy. When the was opened, conerary to bis expectation, the womb appeared to be perfectly found, and he could find nething about thofe parts that could occafion the diforder; but, in opening the head, he found a large quantity of water lodged in the cavities of the braiu, which he allcdges was the occafion of thofe fpafmodit pains and diforders, and of the abortions that followed.

He has feverial other cafes of abortions, occafioned by feveral other canfes.-Vide collect. xii. of this book.

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& N \cup M B . \quad I . \quad C A S E I \text {. } \\
& \text { OF HERNIAS. }
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IWAS befpoke to attend a patient in labour, who, from her infancy, had been attended with a fmall hernia in her left groin; which, however, difappeared in the fifth month of her pregnancy. As it fill continued up when labour came on, I directed an affittant to prefs her fingers on the part during every pain, to prevent it from being overltrained; and fhe was fafely delivered. Iexpected the hernia would return as foon as the fhould be recovered and walk about, becaufe this was the cafe of another woman nearly in the fame fituation, though the hernia was larger, and on the left fidc. I was, however, agrccably difappointed; for it has not yet re-appeared, though I have delivered her twice fince that period.

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C A \cdot S \text { E } \quad I I .
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IDELIVERED a woman who had been afticted with a rupture in the left groin, during the whole time of uterine geftation. Though fhe could reduce the hernia, it was forced down by every fain, and gave her great uneafinefs,
uneafinefs. The labour being pretty far advanced when I arrived, I took the opportunity of reducing the hernia upon the ceflation of the pain, preffing my fingers upon the part, and directing her to lie on her left fide, with her thigh clofe up to the abdomen, a pofition which favoured its kceping up, and prevented the anguifh which retarded the labour. She was accordingly fafely delivered; and when the recovered of her lying-iz, I recommended a trufs, by which the diforder was palliated.

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C A S E \text { III. }
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IATTENDED a patient, who, afier a former labour, was afficted with an exomplalos, which difappeared in the eighth month of uteriice gefation, but returned after delivery.

## $C \quad A \quad S \quad E \quad I V^{*}$.

IW AS called to a woman who had felt a fwelling gradually increafe at the left fide of the anus; and this tumour difappeared when the was in bed, but always returned in the day while fhe was on foot. Thishernia continued down all the time of her firt labour; upon which an inflammation and frangulation of the inteftine enfued, fo that it could not be reduced as ufual. But as the had a large difcharge of blood after delivery, and the parts were fomented with difcutient fomentations, re-inforced with warm and emollient cataplafins, the ftricture was overcome, and the hernia reduced. In her.ncxt labour, the inteltine was forced down by the pains, which had alfo puthed down the membranes with the waters, and confiderably op ened the os internum. The hernia, however, was reduced by opening the os externum, introducing my hand into the vagina, and pufhing the inteftine above the os ficrum. By this operation the membranes were hroke, the waters difcharged, and the head being forced down into the pelvis, kept up the intelline : then the was fafely delivered, without undergoing the fame rifk fhe hadrun before.

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C A S E \quad V .
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IHAD occafion to examine a hernia of the fame kind in a woman, who, about two years hefore I faw her, and a month after the was delivered of her firt child, had felt a fiwelling on the left fide of the perinxum and anus, which the imputed to the violence ufed by the midwife in delivering her. The fwelling increafed confiderably, hanging down in the day, though while the was in bed fhe could gradually thruit it up into the pelvis between the vagina and rectum, by introducing two fingers into the vagina, and pufhing it up until fhe found it returned into the abdomen; but when the arofe it always relapled. About three quarters of a year after this tumour firf appeared, fhe conceived, and was feized with a violent cough, which forced down the inteftine in fuch a manner as to increafe the fwelling to the fize of a man's fift. As fhe auginented in bulk, fhe found greater dificulty in reducing the hernia, though the reduction became more neceffary, from the pain occalioned by tne prefure of the uterus, infomuch that The was frequently obliged to lie down on púrpofe to effect it. About five weeks before the fell in labour, the tumour increafed to fuch a degree that the could not reduce it at all ; and thus fhe continued for feveral days in great pain. As the had been an out-patient of St. George's hofpital,

Dr. Rofs fent her hufband with a meffage to me, defiring I would fend one of my pupils to her affiltance. It was late when I received this intimation, and the place of her abode being at a diftance, I defired Mr. Tomkins to vifit her; but fhe would not allow him to exannine the tumour. Next morning I accompanied him to the place, and found her in great agony: the part was livid, and all round the edge of the fwelling of a firey red colour. She lay on her fide, and when turned upon her back, for the convenience of examining the tumour, it broke in the middle, where the fkin was thin, and where there was a fmall fluteuation underneath. From the opening, which was finall, iffued about a fpoonful of pus, mixed with blood; and immediately after this difcharge, a thin fluid of a greyift colour, to the quantity of half a pint. This rupture no fooner happencd, than the patient exclaimed that the inteftine was gone up, and that the was perfectly free from the pain, which the moment before had been fo violent. We were very much alarmed at what had happened, becaufe this fluid, which ftill continued to flow in a fmall quantitys, appeared to be the contents of the ileon, part of which, we concluded, mult be mortified. She being coftive, the colon was emptied by a clyter, a pledget applied to the aperture, and the was ordered to take no other fuftinence but foup made of lean mutton or beef. She recovered, contrary to our expectation, went on to the full time, was delivered by Mr. Tomkins, and fome months after her delivery called upon me, when I found the hernia had kept up, and the part appeared firm, though a little ichor continued to ocze from the fmall orifiee; fo that I imaganed the inflamed inteltine had adhered to the neighbouring vifcera, after the mortified floughs had been caft off. She was frequently troubled with violent pains, and great weaknefs in that fide of the belly, as if the guts was become narrow and contracted, fo as to hinder the ealy paffage of the ingefta. In about five months after this cure, the rupture re-appeared, in confequence of her over-ftraining at a wafh-tub; and fhe being again pregnant, it was feveral times reduced by one of my pupils, by whom the was likewife fafely delivered. She afterwards ficlened of the fmall pox, and died.

## C A S E VT.

Commenicated in a letter from Mr. Stubls, of Bedfordfire.

HE was called to a woman near forty years of age, in labour with her firt child, and underfood a midwife had been in waiting ten hours, and ther the membranes were broke. The vagina and pelvis were filled up by atumour, which at firf touch he miftook for the head or nates of the child, for he had fcarce room to introduce one or two fingers betwixt it and the pubes; but opening the os externum, and puhing up this tumour, he fett the os uteri largely dilated, and the child's head rctting againft the pubis.

He withdrew his hand, whith was very much cramped and preffed ; and having retted a little, and confidered the nature of the tumour, which probably procecded from the inteftines pufhed down at the back part of the ragina, he again infinuared his hand, and preffing frongly upon the tunnour, it was reduced, and the head immediately deicended into the pelris ; then it was delivered by the forceps, becaufe the woman was weak, ard both n:ctner and child dial well.

## $N \cup M B$. III. $C A S E I$.

## OF AN ASCITES DURING PREGNANCY:

IWAS called to a woman immediately after her delivery, who, from the bignets that remained, iniagined there was another child in the uterus. Upon examining in the vagina, I could find nothing to jultify this notion; but in the abdomen, which was very large, I plainly felt a fluctuation of water. This increafed conliderably after the recovered of her lying-in, when I advifed her to confult her phyfician and furgeon, who, in order to relieve her of the anguifh proceeding from the diftention of the parts, tapped her feveral times before fhe died:

## $C \quad A S E$ II:

IT will be urineceffary to defcribe particular cafes of the anafarca. I fhall therefore, once for all, obferve, that I have been called to feveral patients of a weak aud lax habit, and found the cellular membranes fwelled over the whole furfare of the body. By the method prefcribed in collect. $x$. No. iii. cafe iii. all of them were relieved and ftrengthened before delivery, except one woman, who, after delivery, was, from exceffive weaknefs, carried off by an univerfal anafarca.-Vide Mauriceau; obferv: 8I, and Medical Eflays of Edinburgh; part v: p. 642:

An account of an hydrops ovarii, hy Dr. J. Douglas, No. 308; p. 2317, of the Philof. Tranf.-A woman, not long after fhe had lain-in of her firt child, received a violent blow upon the left fide of her belly; the pain abated in two or three days; but returned in two months, when fhe obfcrved that fide gradually turn bigger than the other, and the pains increafed; but in three months after the was firf afflicted with them they went off, when fhe turned pregnant; and had no other fymptom thars what is common in that thate, only the was much bigger than ordinary ; after delivery, the fwelling abated but little. In about a year after, fhe again conceived, went on to her full time, was delivered of a live child, but was fo weak that the died on the third day: On the doctor's opening the abdomen, there iffued out a vaft quantity of flimy vifcid water; in colour and confiftence very much refembling a brown, thick, and ropy fyrup, to above fixteen. or feventeen gallons, which he imagined was contained in a duplicature of the pcriton:xum, as the inteltines did not appear; but after examining more narrowly, he found that the thick membrane, including the waters, could be feparated from the vifcera and peritonæum. This bag reached from the pubes to the midriff; and from the left region of the loins to the right, and filled up the whole cavity of the abdomen; diftending her belly fo far, that a plate could eafily lie on it when the was alive. After he had freed it from all the neighbouring p:rts, he found it adhered infeparably to the left Fallopian tube, and that it was nothing but the membrane of the ovarium thickened and diftended by the collection of the above-mentioned humour: 4ll the other vifcera in the abdomen were found, and in their natural flate.

There are feveral other papers of fuch cafes in Phil. Tranf. viz. No. 140, p. rooo. In a woman opened by Dr. Henry Sampfon', the left ovarium was increafed to fuch a bignefs, that it and the fluid.contained, weighed with the uterus, that was but light, 137 pounds. Vide No. 348, p. 452 , by Dr. Hollings. And another, in No. 38 r , p. 8, of a dropfy in the left ovarium, of a woman of fifty-eight years of age, cured by a darge incifion
made in the ficle of the ablomen, by Dr. Robert Houfton, who relates the following particulars:

A woman near Glafgow, in her laft lying-in, at forty-five years of age, fuffered ruch from her miidwite's feparatirg and pulling away the placenta with too great violcnce, and was fo fenfibly affected with a pain which thien feized her left fide, between the navel and the groin, that ever after fie had farce been free from it, but had it more or lefs for thirteen ycars together.

That part of the abdomen increafed, and gradually ftretched to a great bulk, and at laft drew to a point, when the Doctor made by degrees a large opening, from which was difcharged a gelatinous fubftance, and then about nine quarts of fuch matter as is obferved in fteatomatous and atheromatous tumours, with feveral hydatides of various fizes, contảining a yellowifh ferum, and feveral pieces of membranes, which feemed to be parts of the diftended ovariumi. After this, he fewed up the wound with three ftitches, and by acareful management the woman recovered and lived fevcral years. The koctor fays, it plainly appeared, that the pain arifing from the delivery of the placenta, and its continuing, was the occafion of an inflammation of that part of the uterus, and neighbouring parts; and feveral writers corroborate this opinion, as Cyprianus, Forrei-, tus, Ruyfch, \&ic. Others have given remarkable cafes of deropfies of the ovarium ; particularly one is defcribed by Drelincourt, which feemed to be nothing but a number of little globules eluftered together ; fome containing water, exceedingly clear and limpid; others, a yellow thin ferum; and others again, a glutinous matter: fome were as big as pullets eggs, others bigger than a man's fift. The body of the ovanium, with its contents, weighed fixty pounds. Thefe few, out of many inftances from authors of undonbted reputation, he alledges, fufice to prove, that the ovarin, as well as the tubx Fallopianx, ligaments, and uterus iffelf, are not free from dropfics, \&c. and they are owing to obftructions, of ten occafioned by rude and violent dealing with women in hard labours. In No. 423, p. 729 , is a fimilar cafe from Mr. John Bclcher; and in No. 466, p. 223, another from Dr. Short.

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N U M B . \quad I V . \quad C A S E I .
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## OF THELUES VENEREA.

ONF. of the poor women attended by my pupils, being near the fuil time, had a bubo in the groin, and lier throat begain to be affecled with a venereal inflammation. Pultices wese applied, in order to bring the tumour to fuppuration ; and fmall dofes of calomel were given inter, nally, to reflrain the infection, until fhe fhould be delivered. Thefe methods feemed to fucceed: fhe was fafely delivered of a male child, which at filf had no applearance of infection ; but, in about eight days, the ferotum and penis bicgan to fwell, inflame, and break out in little wleers; the whole body was foon covered with venereal blotches; and it was attacked by a cough, which deftroyed it in three weeks after it was born. As for the mother, the bubo was brought to fuppuration, and the matter difo charged; and I defigned to have fent her to an hofpital fan the cure of the lues, as foon as the fhould be in a condition to be removed; but the ulcers in her throat grew worfc and worfe; in about a fortnight after delivery her lungs were affeetest, a confumption enfued, and death was the confeguence.

It is obferved, in general, by the gentlemen who have frequent opportunities of fillivating pregnant women in the hof pital, that it is performed fafer in the firtt fix: or feren months of pregnancy, than in the laft two or three months, becaufe they are then in danger of being delivered at the ficight of the falivation. But that they are lefs fubject to mifearry in the fifth of fixch month;, than in the firf four months; that women ought not to undergo a falivation, unlefs the difeafe is like to prove deftructive by phagedxnic ulcers in the throat, \&c. for if the difeafe can be palliated till the patient is recovered of her lying-in, if the fuckles the child, and is then falivated, both the and the child will be cured with greater fafety. That woman of a full habit fhould be bled, live abftemiounty, and take opening medicincs, before they are anointed with the mercurial ointment: alfo, if the menfes are expected, we ought to wait till the evacuation is over, either in thofe that are pregnant, or in thofe that have them during pregpancy.

The following obfeivintions are fion Mauriccau, with segaird to the treatment of pregnant women affected with the vencread difiaje.

II oblerv. xxiii. p. io, he gives an account of his being called to fee a young woman, aged twentj-two, in her feventh month of pregnancy, who was then under a falivation for the lues venerea, and who fpit near three quarts a-day; and yet was happily delivered at the full time, of a healthy child.

In obferv. Ixxi. p. 60, he mentions his having feen fuch a cafe as the former, only the patient was gone with child but two months and a half, at a moderate falivation was carried on for a month; the ufe of the warn bath was forbid; and the woman was at laft fafely delivered of a healthy child.

In obferv. c. p. 83, a like cafe with the former is mentioned, with a remark, that in all cafes where a pregnant woman is infected with a lues venerea, it is fafef and propereft to falivate them in the earlicr months of pregnancy, when the cvacuation will lefs affect the foetus.
N. B. Two other cafes are mentioned, but in one of them the patient had only a gonorrhoca, which, though not cured, did not affect the child; and in the other cafe the patient was only fufpected of having a lues venerea.

## C O L L E T I O N XII.

Of mijcarriages, or delivery before the full time.

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N U M B . \quad \text {. } C A S E I .
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QF WHAT MAY OCCASION THE DEATH OF THE FCETUS IN UTERO.

## [Vide Part i. Book i. Chap. iii.]

IWAS fent for to a woman near the full time of her firft pregnancy, who imagined the was in labour ; but I found the os utcri clofe fhut : and upon enquiring móre minutely into the nature of her complaints, I thought they procecded rather from the colic than from any tendency to labour; and the told me the had not felt the child fiir fur eight or ten
days. I ordercll her to be bled, and the inteftines emptied by a clyfter; and thefe evacuations, together with an opiate, carried off the pains. In five or fix days I was called again, and found the os utcri largely open, the pains ftrong and frequent; and though the cafe was tedious, the was fafely delivered.

The whole body of the child, together with the funis, was livid; and this laft, which was ten hand-breadths long, had a knot in the middle tight drawn, that part which had paffed through the noofe being fmall, and the reft very much fwelled. The child feemed to have been dead about fourteen days; and the death, doubtlefs, proceeded from the knot's being drawn fo tight as to obffruct the circulation.

I was concerned in another cafe, where there was a knot upon a lorg funis, yet not fo clofe drawn but that the child was alive.

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C A S E \quad I I .
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IONCE delivered a woman of a dead child, round whofe neck the funis had formed a kind of noofe or knot ; yet its death feemed rather to procecd from a hurt in the delivcry; for the arm prefented, and the child being brought footling, I found more difficulty than ufual in delivering the head.

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C A S \text { III. }
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IWAS called to a woman in labour, and felt the ns uteri backward toward the facrum, and a little open, though I could feel no watcrs The head preffed down the uterus before it to the lower part of the pubes; and I felt fomething unequal, like a long flat fubftance, between the uterus and globular part of the head. This, upon delivery, appeared to be ahout two inchcs of the funis preffed flat and mortified; and the child feemed to have been dead forie day's.

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C A S E \quad I V
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ANOTHER child, which prefented with the arm, I delivered footling, and found the funis wound three times round the aeck, which, at the abdomen, was drawn very fmall, and flattened. This, no doubt, was fatal to the child, who had been dead many days.

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C A S E \quad V
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IDELIVERED a woman, who, about fourteen days before, had been exceffively frightened. In the inftant of her terror, fhe felt the child bound furprifingly in her womb, a tremulous motion enfued, and after that minute fhe never felt it ftir. She was taken with a vomiting and purging in the eighth month, which brought on the labour-pains, and delivered her of hor child, whth ${ }^{*}$ was entirely mortified. The cuticula was eafily ftript off, the abdomen fwelled, and the fcalp and bones were loofe and pappy.

I have attended in many cafes were much the famc fymptoms occurred in the three or four laft months of pregnancy: and the child was generally dead, though fometimes it chanced to be alive. Women often mifcarry between the fourtecnth or fifteenth day, after accidents, fevers, exceffive fa-
tiguc, \&c. and labour is gencrally brought on by fuper-purg:tion, ficknefs, and retching; and fometimes by the breaking of the meribratus. I have likewife known many women mifcarry, though nothing extraordinary had happened, and no caufe could be affigned for the death of the child.

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C & A & S & E & V I .
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AWOMAN five months gone with child, was feized with violent pains at her navel and ftomach, together with a continual vomiting. She had conceived in March, and in Auguft was taken with a pain in her back, from a ftrain in lifting a heavy pot. About a month after this accident, when her other complaints began, fhe perceived a fluid, of a brownifh colour and mortified fmell, cpantinually draining from the vagina, and at different times, feveral bones of the fingers and toes of a child came away. Anodyne draughts, epithems, and opening clyfters were adminiftered, to eafe the pain and reftrain the vomiting; but all to no purpofe. She became gradually emaciated, being woren out with pain, want of reft and nourifhment; for her ftomach would retain neither folids nor fluids. To remedy this defect, recourfe was had to broth clyfters, which were injected three or four times a day, and contributed effectually to the fupport of her ftrength and conflitution. When the fmall bones began to be evacuated, and her fymptoms were at the worft, a male catheter had been introduced within the os uteri, but could not pafs above an inch beyond that part ; and nothing but a foft fubftance could be felt. An attempt was alfo unfuccefsfully made to dilate with long narrow-mouthed forceps; and injections were thrown up with a long flcnder pipe made for the purpofe, which, however, reached but a very little way within the neck of the womb. At length, the anodyne medicines took effect, and the nourifhing clyfters fucceeded to our wifh. The foft parts of the child continued to diffolve and come away in form of a cadaverous ichor, till the month of December, when this evacuation ceafed. However, fhe had feveral night relaples till the May following, when fhe voided by the anus feveral bones of the fkull, and other large bones of the body, the cartilages and fpongy ends of which were difflolved, though they appeared to have belonged to a foctus five months old. During this whole time, the lips of the os tincx were fmooth, and the neck of the uterus was long, nor had the the leaft flooding, until three months after, that the menftrual difcharge returned. This was her firlt pregnancy, fince which fhe has not conceived; and what is very remarkable in the cafe, fhe never had pains about the uterus, but only at the navel and fcrobiculuscordis; and thefe were doubtlefs owing to the bones working their way through the womb and rectum.

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C A B S E \quad \text { VII. }
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ABOUT the fame time, another woman, who had formerly bore a child, and was in the fifth month of her fecond pregnancy, was taken with a flooding, which continued fifteen days, at the end of which a mortified iehor flowed in large quantity for the fpace of threc weeks, though no bones were evaeuated. Some time after this diforder, fhe recovered her ffrength, had a regular difeharge of the menfes, conceived again, went on to the full time, and was fafely delivered. As in the former cafe, part of the bones was diffolved, it is probable that in this there was a total diffolution.

There are two cafes much alike in the Philof. Tranfact. The firf in No. 229, p. 580, by Mir. James Brodic, of a negro-woman, about the feventh month of her being with child, whofe navel impofhumated and broke of itfelf; and after it had voided fome quantity of ichorous matter, whereby fhe had fume eafe, the difeharge ceafed. In about a month after, it irnpoithumated again to a much greater degree than before; a furgeon opened it with a large laneet, and after difcharging a great quantity of thin ichor, extracted the bones of the fxetus. The woman recovered, and had a child afterward.

The other is in No. 46I, p. 814, by Dean Copping, of a woman who went with ehild for feven years, till fhe became again pregnant, and proceeded to the ninth month; about which time there was a tunnour about the bigners of a goofe-egg, an ineh and a half above the umbilicus, which broke of itfelf, and from a fmall orifice difeharged a ferous fluid. She had a midwife, and three or four phyficians, who gave her over; the therefore fent for a buteher ! When he came, an elbow of the child prefented to view at the opening of the tumour; and, at the requeft of the woman and friends, to relieve her, he made a large opening both above and below the navel, which enabled him to fix his fingers below the jaw of the fœetus, which he eafily extracted. He afterward, obferving a black fubfance, introduced his hand into the opening, and extracted piece-meal the bones of another foxtus, and feveral pieces of blaek mortificd flefh. She recovered, and was able to purfue her domeftic affairs, only the had an exomphalos ever after.

No. 275 , p. 1000 , is an account of the greatelt part of the foctus voided by the navel, feveral weeks after a midwife had defivered the fecundines, which the took for a mola, on her finding no child, by Mr, C. Birbeck. And in No. 302, p. 2077, Sir Ph. Shipton communieates a cafe in which part of the bones of a foetus were voided through an impothume of the groin.

In Phil, Tranf. No. ${ }^{243}$, p. 292, we read of a woman who was delivered of a child, and continued indifferently well for two or three days after; then new pains eame upon he1, and for thre weeks together, there came from her daily fome quantity of corruption, with pieces of Aefh and Ikin; and the continued dangerouny ill for about cight weeks, at the end of which time fhe was relieved.

After two years fhe began to breed again, had three children in three years following, all which were drawn from her by violence. During her lying-in with the lait of thefe three ehildren, fome bones of a foctus came from lier; after this, divers other bones eane away with her catamenia, and ieveral, amongtt which were fundry parts of the fkull, and fome of the larger bones of the body of a foetus, worked their way by degiees through the flefl above the os pubis. The woman was alive feveral years after.

Dr. Ch. Morely, in Phil. Tranf, Nu. 227, P. 485, defcribes the cafe of a woman, who after having had children, being again pregnant, was inyaded with the expected labour-pains, which in a few day's went off; but the cumour in the abdomen remained. She returned to her ufual employ, continuing for more than a year without being freed from her burthen. At laf à bone was difcharged, not through the uterine paffage, but by the anus; and, after fome interval of time, many other bones were in like manner evaeuated; for fo long as the swoman had exceeded her due time of geftation, fo long was fhe in difeharging the bones by fool; whicli were all kept in a box, in which they appeared fo very numerous, and with fo many diftinct fkulls, as might induce every
one to believe that three feetufes had lain fo long buried in the utecrus. The woiman did well; battivo years after, riding to fome diftance, the wound was broken open ag.in by the violent fhaking of the horfe, of which rupture fhe expired.
Mr. Bernard Shiever, in Phil. Tranf. No. 385, p. 172, writes of a woman of forty-one years of age, who conceived in July 1720; and having gone feven months with child, though fornetimes fhe had her menfes in a imali quantity, fhe perceived her belly lefien, with only a kind of prefure remaining in her right fide: a month after, fhe conceived again ; and in Decermber 1721 , was delivered of a dead female child, of a proper fize: from that time fhe kept her bed till June 1724 . In May, happening to go to ftool, fle felt a pain in the anus, as if the rcciun would drop frona her ; and endeavouring with her fingers to relieve her felf, the extracted a pisece of the cranium as big as a Swedifh crown, and at the fame time two ribs wore found in the clofe-ftool; and fourteen days after the reft of the bones were voided in the fame way, of an excrementitious colour. The woman did afterwards very well, and was the mother of three children; fhe alfo had her menfes naturally.
In the Phil. 'Tianf. No. 477, P. 529, is a letter from Mr. James Simon to the prefident, concerning the bones of a feetus voided per anems.

A curious and worthy clergyman of the county of Armagh, fent me fome time ago a parcel of bones, with the following account of them, viz.

Rofe, the wife of Mortaugh Mac Cornwall, of the parim of Tullylifh, barony of Clare, being in the 37 th year of her age, and mother of feveral children, conceived as ufuai; but in two or three days after, felt an exceffive unnatural kind of pain in the matrix ; which continucd with frequent faintings, a depraved appetite, and an exceeding great weaknefs, till her child quickened; after which the proceeded reatonally well in her pregnancy to the end of nine montlis ; and then her child was alive, and every thing right, as the midwife thought. She fell in labour, which lafted, with proter child-bearing pains, for twenty-four hours, but could not be delivered; and her labour leaving her, the child was no more obferved to fir. In a month after, her labour returned, and with many regilar throws continued twenty-four hours more ; but to no purpofe, fare the difcharging of fome quantities of black corrupted clots of blood; of which kind alfo fhe threw up much by vomit : then her labour left her entirely; and foon after, fhe felt the decaying of the flefh of her infant, and the difcharge thereof both at the rnatrix and anus, with fo putrid and deadly a fmell as was extremely naufeous both to herfelf and others about heiz Thus fhe lived for upwards of twelve months, and at that period her pains incieximy to excefs, fle began the difcharges of the boncs, which, to the number of cighty and upwards, fhe voided wholly by ftool ; fourteen the firl day, and two, three, or four at a time afferward, for the fpace of twelve months, or more, with moft intolerable pains at the voiding of each bone, efpecially a broad piece of the fkull, whish occafinned excruciating agony : fo that from her conception to her death, fhe lingered near four years; during which time never was a more callumitous creature : for three years fearce a day without fuffering moft exquifite torture, being alfo attended with frequent faintings, a continuai want of anprite, and an-almort perpecual loofenefs, infomuch that it was miraculous hnw fin: lived, not eating in all that long fpace fo inuch as would have fultai red a fucking child; even the very liquids at length not lving a moment on her foaiash; by which means fhe became quite ecmaciated, and difnal to look- att, not
being able to move from one pofture to another, or to be moved without fainting at every the leaft touch or motion. The truth of all which I atteft to you, as I reccived it partly from the poor woman herfelf, and partly from my wifc, who vifited her frequently during her illnefs.

In the fame Tranfactions, $\mathrm{N}_{\mathrm{n}}: 485$, p: 121; we find a letter from Mr . Francis Drakc; furgeon, F. R. S. to Martin Fonlkes, Efq. concerning the bones of a fectus difcharged through an ulcer near the navel:

## S 1 R,

HAVING a call from hence into Lincolufhirc lately to fee à patient; the apothecary who attended him informed me, amonglt other things, of an extraordinary cafe which had happened in that neighbourhood a very few years ago. I have fince been informed, on enquiry, that it has not as yet been reprefented to the Royal Society; and therefore I hope you will do me the honour to lay this account of the cafe before them.
Jane, the wife of Jancs Burman, labourer, at Scawby, near Brig, in Lincolnthire, was about twenty-nine years of age when fhe married. About two years after, when the had had a child at full time, fhe conccived again, and went regularly on for four months. She then got a fall; and about three weeks after felt a load in her belly, which continued on the right fide of the fame for bctween two and three years. The woman then grew very big of another child; which preffed fo much upon the lump as to give her great uneafinefs. However, the went on to her time with har donble burthen: and three years and a quarter after the accidental fall the was delivered of a live child at full growth: from which time fhe grew worfe and worfe, with violent pain about the navel, and an inflamed tumour appearcd near the part. Upon application to a neighbonring furgeon', fomentations were ufed, which produccd a fuppuration at a fmall breach near the navel. The furgeon did not know what to make of this fwelling, and therefore did not venture to enlarge the orifice; but it continued difcharging a foetid purulent matter for three or four months longer. About a year or more after her lait delivery, the woman was fuddenly feized in the night-time, and a hardifh mafs of flefl, feemingly about eight inches long, was difcharged through the old opening in her belly. The lump was rather thicker than an ordinary man's wrift ; and being opened, contained all the bones of a. foetus about four month: growth. At this time the woman was much emaciated, occafioned by the large difcharge of pus froin the wound; and what is much more estraordinary, whatever the eat or drank came halfdigetted through the opening; white bread; or bettcr diet, came through in that manner; but coarfe rye-bread, or fuch like, were not digefted at all ; for which reafon the poor woman munt inevitably have pcrifhed, had fhe not been fupported by a charitable gentleman's family in the village with diet fit for her miferable circumftances.

She continued to difcharge her excrenrent in this manner for fix months, and then that fymptom left her; after which the ulcer was kept open other dix months, when it dried up of itfelf naturally, with a very firm but fmall cicatrix:

I had the curiofity to fee this woman ; and Mr. Charlefworth, furgeon and apothecary at Brig, fent for her. She appeared hale, ftrong, and in foll health. I had the above account of her cale from her own mouth, attelled by the furgeon who attended her. I faw the bones of the foctus in Mr. Charlefworth's poffefion; perfectly white, and, I believe, not one wanting. The womar farther told me, that nine nonths after the wound
was healed; fhe was delivered of another live child at full time, but with great dificulty. The whole time that the bones of the foetus may be fuppofed to have lain in the woman's belly, was about four years and a half. Thus, Sir, I hare drawn up the account as well as I can, but very inaceurately: I have purpofely omitted terms of art, in order to make myfelf better undertood by thofe who ate not furgeons or anatomifts!' There ate feveral particulars in the account which I cannot reconcile to any natural laws that I ani dequainted witb. However, as the truth of the whole is inconteftible, it thows moft evidently what wonderful things nature can do with proper alliftance.

In No. 486, p. 131, is related a cafe and cure of a woman from whom a foetus was extracted that had been lodged in one of the Fallopian tụbes; Fent from Riga by Dr. James Mounfey:

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N \cup M B: \quad 1 I: \quad C A S E I:
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Of nifcarriages procecding from the feparation of the placenta, andia dif.tention of the collum and os useri.

AWOMAN; in the fecond month of her fecond pregriancy, flarting out of bed in furprife; felt fomething as it were give way; andid infantly mifcarried; with a large hemorrhage that foun ceafed:

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C A S E \quad I \dot{E}:
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IWAS, about nirde o'clock at night, called to a woman three months gone with child, whom I had formerly delivered. In the morning fhe had been feized with a flooding, in confequence of a fall down fairs; upon which fhe was put to bed; bled; and took fome tincture of rofes, with Cyr. e meconio, and the difcharge abated a little; but returning with greater violence in the evening, a gentleman of the profefion; who lodged in the houfe; prefcribed another venæfection, together with ftyptic medicines, fuch as the tinct. antiphthific: alum. and rang: dracon: When I arfived, fhe was exhault:d, faint, and pale, the os uteri being clofe, though The had the appearance of fight pains, that recurred at long intervals. As the danger feemed preffing, and all the common methods had been tried without fuccefs, I took the hint from Hoffman, and ftuffed the vagina tight with fine tow dipped in ox jcrate, which immediately flopped the difcharge: I then prefcribed an anody ne draught, with five dreps of the tinct. thebaic. and two drachms of the fyr. de meconio, and directed her to drink frequently of chicken-broth. She dozed a little, and between her dozings had, every now and then, flight pains, though the flooding did not return. Towards morning; the pains grew fo itrong that the tow was forced through the os externum, together with the abortion, aboat the fize of a goofe-egg, and fome coagulated blood. I have fince fuccefffully ufed the fane method in feveral cafes where the flooding was violent. Indeed the ftrong preffure in the vagina feems to dam up the internal flooding, which, by diftendiuyg the uterus, brings on labour-pains.

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C . A S E \text { III: }
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AWOMAN, ten'weeks gone with child, was taken with fight painś and a flooding. The os uteri would hardly didmit the tip of the forefinger ; nor did the opening inicreafe, though thic difcharge grew mote vior-
lent at every pain. The patient being exhaufted by the great lofs of blood, was directed to take pill. Math. gr. x. in confequence of which the pains and flooding abated. Toward morning the enjoyed fome relt, and fell into a breaching fwcat; and, next day, was much eafier, her pulfe being raifed, and the difcharge having acquired a pale colour. On the fecond day it was no longer of a red hue ; and the next day, while fhe fat on the pot making water, the fecundines flipped anay without pain, the membranes having been broke, and the embryo almoft entirely difolved.

She had twice before mifcarried in the third month; and in fix morths after the laft of the two mifcarriages, conceived again. As the former. abortions had probably been owing to a coftive conftitution and hard fraining at ftool, the was bled fix weeks after conception; and the fame eracuation, to the quantity of fix or eight ounces, twice repeated, at the interval of a month. At the fame time, fhe was directed to take frequently at night, elcet. lenitiv. zij. or two fpoonfuls of the ol. amygdal. d. mixed with an equal quantity of the fyr. violarum, fo as to procure an eafy paffage every day. By thefe means the held out to the end of the feventh month, when the was delivered of a child, which is ftill alive. In the fifth week of hèr next pregnancy, fhe was bled to the quantity of eight ounces; but neglecting to undergo the fame evacuation at the period of another month, and being expofed to fome fevere exercife, the was taken with a pain in her back; of which the was relieved next morning, by lofing eight ounces of blood from the arm. However, fhe happened to over-Atrain herfelf again; and the pain returned with a flooding, which occafioned a mifo carriage in the fourth month.

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C A S E I V .
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IWAS called to a gentlewoman who had been feveral years in a bad ftate of health, occafioned by frequent collections of matter fomewhere about the outfide of the uterus; which difcharging itfelf into the vagina, flowed from thence in large quantities. During this complaint the had boren three children, and now was feized with pains about the os pubis, together with a difficulty of making watcr and in going to ftool; which the imputed to her old diforder. She had felt fome fymptons of pregnancy, fuch as ficknefs and retching in the morning; but, as the menitrual difcharge was regular, the could not think herfelf with child. Neverthelefs the pains increafed, and the was fuddenly delivered of a child in the beginning of the fifth month; which, though not above four or five inches long, lived fome hours. The fecundines did not come away, nor was there any difcharge of blood ; circumftances which plainly proved that the placenta ftill firmly adhered to the uterus; and as it was impofible to introduce the hand, I thought it advifeable to leave it to come away of itfclf, efpecially as the patient was free from pain. A clyter was adminittered; after the operation of which the took an anodyne draught of aq. cinnam. ien. \& fyr. de meconio, and enjoyed good reft that night. But her pulfe being rather too Now, I prefcribed the following draught to be taken three times a day, in order to quicken the circulation:- R Aq. cinnam. ten. گifs. Pulv. contrayerv. com. Эj. Caftor. fal. volat. \{uccin. ā gr. v. Syr. croci. q: f: f. haultus; 8va. quaq. hora fumend.

By thit julep a flight fever was produced; on the fifth day a flooding inegan, and the placenta being feparated, was cafily delivered. The flood-
$\mathrm{i}_{\mathrm{ng}}$ being at firft pretty violent, was reftrained by repetitions of the anodyne draught ; and before the fecundines came away, the received a elyfter every night. After this mifcarriage, the enjoyed a better ltate of bealth than before.

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AN unfortunate woman of the town mifcarried in the fifth month; and the midwife, from a miftaken notion, that if the placenta is not immediately delivered, the patient muft die, bad tried to pull it away with fuch force as produced a violent flooding, of which fhe died.

This was likewife the cafe of another woman, who being delivered in the feventh month, died inflantly of a flooding, occafioned by a violent fes paration of the placenta. There inftances ought effectually to caution practitioners againft ufing violence, ei ther when the uterus is but little diftended; or when the placenta adheres too firmly to be feparated with moderate force:

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C A S E \quad V T_{0}
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IWAS calied to a woman four months gone with child, on the eleventh day: after the cruption of the fmall-pox. She was then taken witl pains; but being delirious, her cafe was not known until the nurfe obferved blood upon the clothes. I found the os uteri confiderably opened; and the difcharge being great, and attended with frequent Itrainings, I broke the membranes that were pufhed down with the waters. This expedient ftayed the llooding; the fottus was foon delivered, and had no mark of the fmallpox; and the fecundines came away in two hours. But the difcharge had funk the puftules, which were of the confluent kind, and could not be raifed again. She died in a few hours after the mifcarriage.

In the German Ephemerides, anni primi, 1. iii. p. 139, there is an account of a woman who had the frall-pox before fhe was delivered; and the child was marked with the fame difeafe.

In the Phil. Tranf. No. 493, p. 233, is the cafe of a lady who was deliyered of a child, on whom the fmall-pox appeared in a day or two after its birth ; drawn up by Cromwell Mortimer, M. D.

In the fame Tranfact. No. 493, p. 235 , are fome accounts of the foetus in utero being differently affeted by the fmall-pox; by William Wasfun, F. R. S. alfo at No. 337, p. 165. Vide La Motte, obferv. 129.

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C A S E \text { VIII. }
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IATTENDED a woman who was very much weakened by a conftant draining of blood from the uterus for above four months, which had begun two months after conception. I found her pulfe low, her countenance pale, and the whole furface of her body affected with a fmall degree of an anafarca. She was direfted to take hartshorn jellies, with ftrong red wine; and afterwards being feized with labour-pains, and an increafe of the flooding, I prefcribed five grains of pil. Matth. which were repeated every hour, until the pains and violence of the flooding abated. The os uteri being open, and the membranes pufhed down with the waters, thefe lift were pierced with a pair of fciffars; and the waters being difcharged, the uterus contrated fo as that its veffels no longer poured forth their contents, and came in contact with the body of the child, which was deliyered when the pains returnod: About one-fourph of the placenta was then
emaciated, and covered with clotted blood, which had taken the form of a white thick menbraire, and lay betwixt it and the nerus; while the reft of the placenta was plump', red, and covered with freft grumes of blood. The emaciated part had been feparated at the beginining of the flooding? and the other in tinue of delivery. 'The child was alivc, but very finall;' confidering it was born in the feventh inonth.

## C A S E VHI.

Commusicated in a letter from Mr. Fordch, Folkfonco

T"HE woman wa's four months gone with child; had been troubled with a flight flooding at times for the fpace of three weeks, and mifcarried of the foetus about an hour. before Mr. Jordan arrived: and he underftood that the funis had feparated from the placenta, and come along with the child.

The patient was low and fuintifh, having been very much fatigued by the midwife's trying to extract the fecundines: and the had bearing pains that frequently recurred, together with a fight flooding, which, however, was very inconfiderable. He directed her to drink frequently a little caudle; and prefcribed an opiate ; by which her fiirits were recruited, and the pains for the prefent remoyed : but thefe foon returned after fhe had enjoyed fome reit.

Upon examination, he found part of the placenta in the vagina, fo that the os internum was kept open; and that part which remained in the uterus adhered fo clofely to it that he could not feparate it ivithout fome difficulty. Immediately after this fepraration, the wonan was eafed of her pain.; but fome time elapfed before the retovered her ftrength. Many cafes of this' kind have occurred in my 'practice.

When the himorrhage was altogether ftayed, or continued in fmall quantity, after the delivery of the foctus, the fecundines commonly were expelled by the 'after-pains. But when the woman's ttrength was in danger of being impaircd by the flooding, I always endeavoured to bring them away with my fingers; and when thefe would not reach them, employed the blunt-hook for the fame purpofe : nay, when both thefe expedients failed, I have reftrained the flooding by prefcribing opiates from time to time ; and afterwards have found it more 'eafily brought away, if it did not come of itfelf.

If part of the placenta is come down'into the vagina, I cautioufly avoid feparating it from what remains in the uterus, becaufe in that cafe the os uteri would contract, and retain it for a longer time. Whereas the os internum is keptopen, and irritated by the protruded part, fo as to occafion every 'now and then 'a pain which helps too fcparate and force down the other.

If the placenta lies loofe, though kept up by the contraction of the os uteri, and there are no pains to force it down, I open the os internum fo as to admit two fingers, and bring it away with the blunt-honk: but even this method has failed, andra draining has continued for feveral days. I have opened the os externuin fo as to introduce my hand into the vagina; and infinuating two fingers into the niterus, have feparated the adhefion. Then, if I could not pull down the placenta with niy fingers, I have introduced the hook along with them, and turning the blunt point above the feparated cake, extracted it without farther dificulty, taking care all the time that the point was towards the placenta, and did not touch any part of the
uterus. I have tried to extraet it with the polypus forceps; but feldom effected the extraction without difficulty, becaufethis inftrumeṇt takes more room, and is not fo eafily managed.

There is very rarely occafion tor any affiftance of this kind, which fhould never be ufed except when the patient is in danger from long-continued drainings.

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C A S E A X
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## Communicated by the fame gentlenan.

AWOMAN about five months gone with child, was taken ill with a flight flooding, which was reltrained by taking eight ounces of blood from her arm, keeping her quiet in bed, and giving her opiates from time to time. Yet, on the leaft motion, the difcharge returned; and, in about five ortix days, labour coming on, the was fafely delivered of the fuetus and fecundines by the labour-pains; butit was a long time before the recovered her ftrength.

## $C A S E X$.

IWAS called to a woman who was feized with a pretty large hxmorrhage, and mifcarried in the fifth month. The funis and membranes were expelled at the fame time, but the placenta remained; and though the difcharge abated, a draining of blood continued to weaken her, for the fpace of three months after her mifcarriage, when I wascalled, and found her pulfe low, her countenance pale, and her body emaciated.

Feeling the os uteri very rigid, but fo open as to admit two fingers, I ordered her to be laid in a fupine pofture acrofs the bed, and gradually dilated the os externum, fo as to introduce my whole hand into the vagina. I then tried to dilate the os internum, but without fuccefs. However, my hand being in the vagina, I could now introduce my two fingers fo as to feel the placenta, which was Atrongly compreffed by the uterus into a conffence of a fcirrhous fubitance, about the fize of a large walnut or pigeon's egg. This I feparated all round with my fingers; but as I could not bring it down, I introduced a long narrow-pointed forceps, which. however, did not fucceed : finally, I had recourfe to the blunt hook. with which-I brought it away in three feparate pieces. The draining was ftopped, the woman recovercd, and afterward bore children. In this cafe the placenta, inftead of increafing and forming a mola, according to the notion of fome old writers, was fqueezed into a fmall, round, compact fubltance, almolt as folid as:a cartilage.

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C \quad A \quad S \quad E \quad X I .
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Communicated.by Mr. Hengefon, in a letzer from Ipfzuich.

HE was called to a woman in the fourtcenth week of pregnancy, found her much weakened by a flooding, and was told the had been four and twenty hours in that condition: on touching, he felt the body of the uterus almoft even with the os internum, the os externum forward above the pubes, and the fundus uteri backward, and clofe to the lower part of the reftum at the os coccygis.

The woman lying on her fide, he dilated the os externum, and introducing two fingers-into the os internum, which was a litcle open, broke the
membranes, in hopes that by diminifhing the contents of the uterus he might fay the hxmorrhage ; but, after having waited fifteen minutes to little purpofe, he again introduced his hand into the vagina, and with his thumb in the os uteri, and his finger prefling backward againtt the fundus, he pulled down the firt, while his fingers puthed up the fundus above the os facrum ; upon which the contents of the womb fipped into his hand.

The patient recovered, but laboured under a prolapfus vaginæ, occafioned by a former fevere labour. She is now again with child; and finding the nterus lying in the fame pofition, he defires my advice, in order to prevent another mifcarriage from the preternatural lownefs of the fundus, which he apprehends will hinder the uterus from ftretching.
I advifed him to try to raife the uterus higher, and keep it up with a round peffary, or rather with one of that kind which have necks, and are kept up with ftraps tied to a belt that goes round the woman's waift, vide tab. xxxviii. I likewife counfelled him to bleed her, by way of preventing a flooding, if her conftitution can bear that evacuation, and to keep her body open.

Mauriceau, in obfervat. 385, defcribes a mifcarriage from a woman being too much fhaken in a coach.

He attended a woman who had mifcarried an hour before, of a fmall child of four months, which he judged from its corruption to have lain eight or nine days dead in the womb, before nature of itfelf expelled it. The body of this foetus being very fmall, and quite thrivelled, had for thap yeafon very little dilated the internal orifice, fo that he had no room for the prefent to bring away the after-birth; and therefore left it to nature, which did the bufinefs twelve hours after. For he judged it better to da fo, than to offer violence to the womb, by dilating fo much as was neceffary for extracting this forcign mafs. This misfortune was owing to the woman being too much fhaken and agitated, by always ufing a very uneafy coach.

In obferv. 614, we are told he delivered a woman who had mifcarried two hours before of a foctus of three months, which had been dead eight or tendays, as appeared by its corruption. 'The midwife, for want of fufficient knowledge in her bufinefs, being incapable of bringing away the after-birth, fo exceffive a flooding was excited by its retention in the womb, that the woman muft have run a great rifk of her life, if:he had not fpeedily delivered her of it, and fo put a ftop to the flooding; after which the did very well.
In obferv. 694, we find he delivered a woman of the after-birth of a fmall foetus of two months, of which the had mifcarried three hours before without any manifeft caufe; the after-birth being retained in the womp after the expulion of the foctus, occafioned fuclin flooding, that the woman had feveral times fainting fits $\mathbf{z}_{2}$ from which the recovered as foon as he had delivered her of that foreign mafs; for the flux then ceafed, and the woman did very well. This was the eleventh child of which fhe had mifcarried.

In obferv. 477 , he fays, he attended a woman who was near the brink of thelgrave, it being the third day fince fle had mifcarried of a child of four months, whofe after-birth was left entire in the womb; for the midwife was not able to deliver her of $i$ t, becaufe of the great difficulty he found, as the told him. Whence that foreign mafs, there remaining for three days, had caufed a prodigious flooding; and as nature had not yet expelled it, there was no hope of bringing it away but by violence, becaufe
the womb was quite clofed when he faw the womàn. It turned at length to a molt virulent purrifaction, which caufed a continual high fever, with two or three exacerbations every day, accompanied with faintings and other fymptoms ufual on thefe occations. But for all thefe diforders, and 2 bad diarrhuea belides, the recovered her health, after a molt grievous and troublefome fit of ficknefs for five weeks. He had fome years before attended the fanc woman, when the was extremely ill in the like manner, after anothcr mife arriage, where the after-bitth had been likewife left behind, the midwife nor veing able to bring it away ; and it was expelled by fuppuration like this laft.

In obferv. j50, he tells. us he delivered a woman of a male infant, five months and a half grown, who was flill alive, though the mother had laboured under a moderate flux of blood, which was alinolt continual, for the feace of two months, increafing at lait to fuch a degree as to hazard an abórtion..

In this fituation, he advifed the woman to keep her bed, or at leaft her chamber, that fo the mught, if polfible, preferve her great belly to the end of the term. But, inftead of hearkening to his good advice, fhe undertook a journey in a coach, which was the direct way to deftroy her infant, who lived nut half an hour, though the mother was as well after he had delivered her, as if the had lain in at the end of the natural term.

In obfervat. 292, he fays he attended a woman who had mifcarried of a dead child in the fixth month, by being jolted in a coach. Twelve or fifteen days before this accident, fhe had been too much fhaken and jumbled on the road in teavelling. This brought upon her pains in the belly, which lafted all that time, till at the end her waters flowed off in great abundance without any real pain. As the infant prefented an arm, the midwife believing at firft fight it was the foot, took no care, but drew it out as far as the thoulder, which put the child in a more unnatural pofture than it was before. In this fituation of affairs, being ordered to attend the woman, he pufhed back the arm into the womb; but as all the waters were entirely run off the day before, and the orifice of the womb was too Itrait, and too dry for him to introduce his hand without violence, in order to turn the child, he judged it more prudent to trult nature with the expulfion of it, than attempt it with a too forcible extraction; plainly forefeeing, that fince it was rery fmall, it might eafily come away in the fame pofture it was in, when the woinb fhould be fufficiently dilated; becaufe the woman had already been mother to a child that was full grown, and gone out her term. It happened as he foretold, twelve hours afterward, nature of its own accord expelling the child, by means of fome pains which were excited by a clyfter he had prefcribed, and which had fufficiently dilated the orifice. But the midwife who ftaid to attend her, miffing the oppuitunity, let the womb clofe of itfelf, and could not bring away the after-birth, which remained fix hours longer, after which nature of itfelf expelled it, as it had done the child ; and the woman being thus happily delivered, did very well afterward. He did not know, but if he had tried to take away the child by furce, as he was defired when he firf came, the violence he muft have ufed in dilating the orifice, fo as to be able to introduce his hand, might have b:en very prejudicial to the mother, whom he preferved by prudently cominitting this bufinefs to naturc, for reafons declared above.

In obfervat. 28, he tells us he atcended a woman fix months gone, who, for eight days paft, had a moderate flux of blood, in which were fome clots, occationed by the fhocks of a violent cough, which had enlarged the orifice
of the uterus tơ a finger's breadth. For this reafon he told her flee would certainly mifcarry in a little time, although fhe felt no pain at prefent, beeaufe he was affured, from the opening of the orifice and difcharge of blood, that it was innpofible for the agitation of fo: violent a cough not to àcomplifh the mifchief it had begun. The eventanfwered his prognotic ; for the next day the woman mifcarried of a child, which lived but a days and a half.

In obfervat. $16+$, we find; that he attendeit $a$ woman who had mifearried rhree hours before of a dead child of four manths. Three weeks before this, fie had received fome hurt in a crowded church, from which time the always felt great pains in her belly; and about the ninth day after this accident, began to void a little blood. From that time the never felt her Intant move, but had the misfortune to lofe it without the after-birth; which rendined behind, the midwife not being able to bring it away, becaufe the rom's clofed immediately on the expulfion of the child. Having himfelf examined whether there could be any means found out to eafe this woman, and having difrovered that. the orifice of the womb was only open enough to receive one finger, he judged it the fafent way at prefent to truit nature, and poftpone the doing her any violence, by endeavouring to extract this after-birth by fo narrow an orifice; the remedy in this cafe appearing to him worfe than the difeale. So he deferred it till the next day, when, finding the womb much midre dilated, he happily delivered her of her burthen; and though fhe had at that time a fever upon her, fhe did very well afterward.

In obfervat. 508, he writes, that he attended a woman who juft before mifcarried at the end of two months and a half, of a finall foetus no bigger. than a bee, which nature had expelled with a confiderable quantity of blood, which had been preceded by a diftillation of reddifh ferofity for feveral days. When he was called to deliver her of her after-birth, he found the wamb was entirely fhut, and that there was no way to bring it off but by violent means, which might be more prejudicial to the mother than the relief he could promife her from the extraction would have been beneficial. For this reafon he thought proper to truft nature with the buftnefs; which was not accomplithed till the twelfth day after, the foreign mafs lying all the while in the womb, and was then expelled half fuppurated, after which the wroman did well.

The principal caufe of this abortion, as he fuppofed, was a great coftivenefs in the time of pregnancy, which in this woman was fo extraordinary; that fhe was fometimes fifteen whole days without going to flool ; fo that the great efforts the made to eafe herfelf of excrements, exceffively baked and hardened by fo long a flay; did at the fame time very forcibly compre?s the womb, which night very well be fuppofed to fhake and loofen, and at laft expel the newly-conceived foctus; as was the cafe of this woman, who had mifcarried feveral times before.

## The following cajes are from La Mottc.

Obfervat. 129. The fmall-pox which raged in Valognes fome yeats ago, thas more fatal than general, molt of thofe that caught it dying of it Among others, a lady of diftinttion, fix months gone with child, or thereabout, fell ill with it. All went exceeding well; the fever was moderate; the pultulces large, raifed, and white; when on a fudden the was raken with a convulfion: in lefs than half an hour the puftules went in, and her whole body turned black and mortified. He happening to be there
by chance, gave her a few fpoonfuls of wine; fome pains followed, and he delivered her immediately of a live child, who died foon after; another convulfion came on, and the died.

Obfervat. 151. A young woman that lived two leagties off, having reached the fifth month of her pregnancy, found herfelf ill, as the ihought, with the eolic. Her mother fent for him in hafte, left fhe fhould be in labour, as thee really was, for he found her b:ought to bed of a child of five months, who was ftillalive when be came. As the placenta had followed, he left her to the care of lee mother. This young woman being again with child fome time after, mifcarried about the fifth month, and fo fuddenly, that they had not time to let him know of it : She came uff as well this time as before. Being a third time with child, the was exceedingly watchful over herfelf, to do nothing that could produee a mifearriageHe bled her three times in the fix firit months, and kapt her to a very regular moiftening diet. She carricd her child to the feventh month ; it lived but a few days. He imagining it was owing to her regularity that The carried this child longer then ufual, the refolved to be ftill more cautious the next time. To that effect, he bled and purged her twice, aftes her getting up from this lying-in. He repeated the bleeding as foon as fhe was breeding, and kept to it every month. He kept her to a cooling mniftening diet, not fuffering her to eat any thing roafted, nor to drink any ftrong liquor. Whether it was owing to this conduct, or any other reafon, the was not brought to bed before the ninth month, and her labour was eafy, as it happened alfo twice after this. But being with child again, and more difordered at the fifth month than fhe had been in the ninth in her three preceding pregnancies, the was at fix months feized with latourpans, and the waters came away. She fent for him, and he delivered her in a little while of two little boys, who were alive, but died fonn after. He afterward brought away a large placenta, common to both children, and the fuin recovered. He has feveral times fince laid her of one child only, whom the has carried her full time without any inconvenience.

## What follozes is fiom Gifford.

Cafe 118. He was fent for to a poor woman in Knaves-Aere, the wife of a finith. She was about fix months gone with child, and had been feized with a flooding fome days before, for which her midwife had lately come to coiffult him; when he ordered an aftringent mixture to be taken, to the quantity of three or four fpoons, now and then, and a quieting attringent draught, to be conrinued every night, in cafe her flonding did not itop. He likeuife defired they would give him an aceouut of her the next day ; at the fane time telling the midwife, that in cafe it continued, the only means left to fave her life was to deliver ; but as the method here preferibed had, in fome meafure, the defired effect for the prefent, he heard nothing farther for two or three days. Her flooding, howerer, returned again, her hufband came to him, and defired he would vifit her; whichaccordingly he did, and, upon examination, found the os internum not dilated enough to reccive the end of one finger, and not eafily to be dilated; wherefore he advifed a repetition of the medicines before prefcribed; and, on the next day, the man called again to tell him that the draining continued, but was not fo violent ; however, as the hecame weaker, he defired he would fee her. He then found the os internum as it was the preceding day; and as he could not dilate it with his fingers, i.e advifed conti-
inuance of the mixture and draught. On the third day, the midwife fent him word, that the draining continned, but that the os internum was dilated fomewhat more than the preceding day; which gave him encouragement to hope that he might dilate it wide enough to pass his land and bring away 'the foctus. Upon his touching, he found an opening large enough to adthit the end of three fingers; wherefore he cndeavoured to dilate it with his fingers, and flretcliing them wide from each other, he got in his thumb, and altervards his whole hand. The firlt thing he met with was part of the placenta feparated from the uterus, and palfing his hand by it he felt whe child inclofed in the membranes, and floating in the waters. He readily broke the membrancs with his fingers, and paffing lis hand within them, foon met with a leg, which lie drew out, and taking hold of it with a foft cloth, he gently pulled toward him, at the fame time advifing the woman to affitt by bearing frongly down. By this method he prefently "xtracted the fretus whole and entire; he was indeed afraid, as it was very tender, that the limbs would have feparated from the body; the placenta readily followed, heing before in part, if not wholly, feparated from the "uterus ; the flooding. Itopped immediately on the delivery.

Mr. Giffard gives a hiftory, in cafe $15^{\circ}$, of a foetus above fix months old, contained in a facculus without the womb, and protruded through the änus. Vide Extra-uterine foctufes, collect.v.

Mr. Chapman, in p. 206, gives the cafe of a child that was delivered at itheanns about fix or feven months old.

- There is likewife an account of an abortion, by Dr. Monro, in the Medical Effays of Edinburgh, vol. ii. p. 235. And of hemorrhages of the nomb, fopped by pulv. Ityp. Helvetii. vol. iv. p. $3^{8 .}$


## To flefi it re:'t hat be impropar to add fome cxamples from Hofiman.

- In fart iii. p. 183 , obfers. i. we read of a woman fifty years of age, the mother of feveral children, who mifcarried in the third month of her pregnancy, from a violent fright and cold to which the expofed herfelf. There followed immodiately a violent flonding ; after this the laboured under an utcrine lixemorrhage, which fometimes itopped for a little, but immediately broke nut agatn; her belly fivelled, and the had frequent palpitations, wi:hich made her fufpect her being again with child, till a year had elapfed. The tumour of her belly was fometimes tenfe and hard, at other times foft, her feet fiwelled in the evening, and the felt a weight in the hypogaltric region.

Various carminative laxatives and clyfters were in vain adminiftered; but after thire days ufe of the caroline mineral waters, the hamorrhage fopped, and by continumg to ufe them, fhe evacpated a great quantity of vifcid Ir atter, boih by ftonl and urine, and the fweifing of her belly fubfided. Wherefore the entered the bath; and after onec bathing, had violent pains and frafims, jutt lite thofe of a woman in labour, and evacuated from the utcrus fonce fleh-like membranous todies, commonly called molas; after Which the perfectly recolered lier health.

In part iii. p. i83, obferr. ii. we have the cafe of a young woman of a lax bahit of body, who had mifcarried four times in the third and fourth months of ler pregnancy. Teing with chid a fifth time, fhe was bled in the third month. About her ordinary tine of aborting, fhe found fparms, flatulen(ies, and comprifion of ber loins and abdomen, fuch as fhe was ufed to, hate funderly when fle mifcarrid : whish, however, were removed by fone antifafmodic
antifarnodic medicincs, by embrocating her abdomen with his balfam in vitio, and by the application of toafted bread to the umbilical region. Sir : had fome fpifins and pains in the feventh month ; but kept her burchen ti the ninth month, when the brought forth a live child.

- She conceived again, and, by being bled in the third and feventh months, carried her child to the fuli time.

In obferv. v. 1. 185, we find that a flong woman, thirty ycars of age, who had had two live children, hut afterward fuffered fix abortions, two in the feventh and four in the fifth months, being again pregnant, had an uterine hamorrhage in the third month, and was again threatened with abortion; but by letting hlood immediately, the hamorrhage ceafed; by repeating it often, and drinking nothing but pure water, taking fome of the teltaceuus powders, and by applying Barbett's fanonaceous platters, with fome of the. oleum hyofcyami to her loins, the brought forth a live child at the full time.

Hoffman imagines the former abortions to have been owing to the woman being plethoric, and drinking ftrong wine for her ordinary drink, which fhe was ufed to do.

In part ii. fect. i. chap. v. De Uteri Hemorrhagia immoderata, he relates the cafe o. a woman of a healthy and plethoric habit of hody, twenty -eight years of age, and three months gone with child, who was taken with a difcharge of blood from the vagina, which continued, in a finall degree, for fourteen days. But from ufing too violent exercife, the was taken with a profufe flooding, which threw her into faintings: after trying both internal aded external remedies to no purpofe, he being called in to relieve the patient in this extremity of danger, immediately ftuffed the vagin. with tow, dipped in a folution of the caput mortnum of vitriol; by which the difcharge was in a very little time fopped; and by corro'orating diet and medicines, hes ftrength was recruited. The lint, three days afier, was extrated with great difficulty, from its being matted ind conircted with the grumous part of the blood; on which followed alfo a fmall felh-like fubftance, with a little uncoagulated bood. By taking proper medicines, with a nourithing diet, the patient recovered; after which the was again pregnant, and fafely delivered. He, in that part of his works where he iseats de convulfione uteri, five abortu, gives ten cafes of abortions; and although his method of prefcribing is different from the practice here, yet his intentions of cure are the fame. He orders venafection when neceffary, together with aftringents, opiates, curroborating and laxative medicines, according as the exigence of the cafe requires.

I find in practice, that the flooding commonly diminihes, and frequently ftops, when the membranes break and the waters come off; though in fome the flooding has continued, and in others has been immediately carried off, by delivering the placenta. This difference fhows, that thofe who run into extremes, either in hurrying off the placenta in all cafes, or in lcaving its expulfion always to nature, err ; for a practitioncr ought to vary his method in thefe cafes, as well as in others, according as it thall appear molt pre per ; as in the foregoing cafes of abortion from Mauriceau.

## $N U M$ B. IH. $C$ ASE $I$.

 OF MARKS AND MUTILATIONS. HEN I defired the woman, mentioned in No. ii cafe vii. to put nut her fongue thas I might examine it, in confequence of her complaint ing that it was dry :indparched, I olferved fomething on the tip of it like aplum, of a green colour, hard and painful. She told me, that when plums begin to ripen, it grows larger, fofter, and lefs painful; acquires a bluc reddith, or purple colour ; and the feels an hard griftly fubfance like the ftone in the middle; in winter it fhrivels and decreafes, and next feafon refumes the fane appearance. It feems, when her mother was with cliild of her, the longed for fone plums, which fhe cheapened, but would not buy, becaure fhe thought them too dear; however, the had touched the tip of her tongue with one of them, which the afterwards threw down; and by this tranfient touch, the child was affected in the fame place.

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IDELIVERED a woman in the eighth month, of a child, from the outfide of whofe little finger on the right hand, hung an excrefcence about the fize of a nutmeg, refembling one of the fimall potatoes that are ufed tor feed, both in the colour and little indentations on its furface; and fome of the women affirmed the mother had longed for that foo i before delivery. The tumour dropped off in a few days, in confeguence of a ligature tied round its neck; but the child had likewife a fuperfluous little finger on the other hand, and a fupernumerary little toe on each foot.

Notwithitanding thefe examples, I have delivered many women with children who relained no marks, although the mothers had been frightencd and furprifed by difagreeable objects, and were extremely apprehenfive of fuch confe fuences.

One woman in particular, when three months gone with child, was furprifed, upon opening the door, by a beggar thrutting a bare flump in her face; a circumitance which alarmed her to fuch a degree, that fhe made lrerfelf and all about her unhappy, being fully periuaded that her child would be born with the fame mutilation; and indeed fhe could fcarce be convinced of the contrary, when the felt the child's arms after it was delivered.

Schenckius, in lib. iv. De Gravidis, from p. 621, to 625, relates feveral obfervations on the Atrange effects produced from the imaginations of pregnant women, occafioned by the different accidents that happe.ted to thern in that flate.

In the Phil. 'lranf. No. 493, p. 205, is part of a letter from Mr. Ben. Coke, F. R. S. concerning a child born with the jaundice upon it, received from its father. and of the mother's catching the fame dittemper from her hufb nd the next time of being with child.

Vide Ephemerides, ann. octav. obferv. 46, and 55, anni 9 and 10, obf. 23. Decurix fecundx ephemeridaruin, ann. prim. obferv. 40.

Mauriceau, in F .248 , and obferv. $34^{8}$, relates his having delivered a woman of a child whofe head was of a monitrous figure, being all made up of face, as it were, with great gogling eyes. It had towards the occiput a flefhy inafs, almoit like the placenta, which feened to come out of the cerebellum and nape of the neck. The mother had felt this child move in her womh with more force than her other children; but it was dead born, it having remained long in the paffage, and afterwards been turned. The mother imputed its monilrous fhape to her having fixed her eyes Iteadfaftly on the figure of an ape.- Vide Philof. Tranfact. No. 456, p. 341, and No. $461, p, 7_{4}$.

I have delivered many women who were prepoffeffed with things of this kind before delivery, which 1 have never yet found to hajpen as they imagined.

1 delivered a child lately, who wanted all the fingers on one hand, a circumftance which was concealed from the mother for feveral days; and on alking her before the knew of it, the acknowledged that nothing extraordinary had happened to her during her pregnancy.

## C O L L E C I O N XIII.

## Of the fituation of the child during pregnancy, the figns of conception, and premature labour.

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of the situation of the child in utero.
[ Vide Part i. Bòok iii. Chap. i. and ii. ]

DURING a fucceflion of many years, I have been called to women who mifcarried in the fourth or fifth month, and generally found the head prefenting. I was concerned in two cifes where the arms came down, and were forced along double. I delivered a woman in the fixth or feventh month, with the waters and fecundines unbroke, and there the head prefented. In another I found the placenta prefenting, and being forced down in the vagina, the head puthed it out after the membranes were broke. A woman in the fixtim mio, th was brought to bed of twins, and both children prefented with the breech, and were io delivered one after annther, by the latoour. pains.

In the year 1751, Dr. Hunter opened a woman who died near her full time, and found the head prefenting; the next year he had occafion to diffeet another fubject of the fame kind, and found the child nearly in the fame fituation. In both cafes, according to Mr. Oald's allegation, one ear was to the pubes, and the other to the facrum.

From thefe fubjects, fome very accurate, ufeful, and curious plates, are publifhed.

Dr. Camper, profeffor, of Franiker, in Friefland, opened a woman, in whom the child was fituated in the fame manner; and I find the head prefenting fo in almoft all natural labours.

Dr. Monro fhowed me fome drawings of a fubject, which his father had the preceding winter diffecied in the public theatre; tables of which are juft publined in Phil. Tranf, of Edinburgh. This was a woman faid to he fix months gone with child, in whofe utcrus the foetus lay in a longifh form, with the legs and breech to the fundus, the head reating on the brim of the pelvis, and the fore parts of the child to the back part of the womb, though turred a litile toward the left fide. He obferves, that though this foetus, and thofe examined by Dr. Hunter, were f, und with the head downward, yet this does not feem to be always the cafe, for the children appear with their heads uppermoft, and their faces toward the mother's belly, in one woman who died when eight months gone; in another who believed herfelf at the full time; and in a shird, fuppofed to be in the feventh month, diffected by his farter and himfelf.

La Motte, in chap. xxi. buok i. gives three inftances of pregnant women whom he had eccafion to ojen.

In the firt, who was fix months gone, and died of an apoplexy, the head. hands, and feet of the child, occupied the inferior part of the uterus, while
the back formed a kind of vault conformable to the fhape of the womb, and the placenta'was between them.

In the fecond, who being five months gone, fell into a fainting, of wlich fhe did not recover; the child lay aciofs the uterus, with the legs bent up.

In the third, who died in the fixth month, of a fluxion upon her breatt, attended with a continual fever, the child's legs and buttocks were toward the bottom of the uterus, and the head downward, as in natural labouss.Vide tab. vi. vii. viii. and -ix.

> From Dr. Garrow, Baruct.

SIR,
THE few following remarks I lately made on opening the body of a young wonan juft dead of a flooding; in the beginning of the eighth monels:

1. 'The uterus, diftended by the waters, placenta, and foetus, appeared pretty much of an oval figure, prominent in the middle, and gradually flattening toward cach fide.
2. Thefundus reached rather above the middle fpace between the navel and fcrobiculus cordis, preffing up the omentum and inteftines, fo as to make it eafily appear why umbilical ruptures are lefs troublefome to women in the laft months of pregnancy.
3. The thicknefs of the uterus was about a quarter of an inch, as near as I could guefs, without meafuring.
4. The child lay on its left.fide, the head prefenting; confequently the face and fore parts turned toward the mother's right dide, thongh not directly, but rather inclining toward the os pubis.
5. The placenta adhcred to the os internum nearly by its middle or thickeft part ; in which part I perceived a laceration upivard of an inch long, and penetriting almoft through the fubfance of the placenta.
6. There was not the lealt appearance of blood in the navel-ftring, except a few drops juft by the child's belly; and I believe the whole quantity in mother and child, at that time was very inconliderable; but I had no opportunity of examining farther.

## $N U M B . \quad$ II. $C A S E \quad$. <br> OF THE SIGNS OF CONCEPTION.

IVISITED a woman who was attacked by a fuper-purgation in the third month of her fecond pregnancy, and dreaded a mifcarriage. 1 . prefcribed opiates; by which her diforder was immediately reftrained; but 1 could not diftinguif the period of her geftation by the touch of the vagina, becaufe the uterus moved eafily up and down. she had undergone a regular difcharge of the catamenia in her former pregnancy; and in this they had twice appeared; but her ficknefs at itomach, and retching, which the had before expericnced, were the fymptoms from which the concluded herfelf with child. The loofenefs was foon fopped ; and the felt the morion of the foetus in about fix weeks, when the ocher diforders abated. Vide tab. :i.

## $C A S E \quad J I$.

IWAS confulted by another patient, who had a regular difcharge of the menfes, without retchings, but fufpected herfelf of heing preynant, by feeling a greater fulne!s about the third month. This, The fuppofed
pofed might proceed from the bulk of the uterus, which kept up the inteffines, and in five or lix weeks after, her fufpicion was jultified by the motion of the child.

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AMIDWIFE confulted me about a woinan fuppofed to be in the eighth monthof her pregnancy. I was told fhe had been feized with a flooding; and in danger of mifcarrying in the fifth month, when a gentleman of the profefion was called, and ufed the common methods of reftraining the difeharge. This happened twice after; and bleeding, with rellringents, were as often epeated. The midwife, obferving that the patient was not fo big as the expected to find her at that period, defired me to examine; and I propofed that the other genteman hould be called to the confultation; but was given to undertand that he was difmified, and would never be emplojed again in the family. The os internuin was finooth; and with my finger in the vagina, I could eafily move the uterus upward; and from fide to fide, while the lower part of the abdomen was perfectly foft. From thefe obfervitions, I declared; that if the was at all pregnant, the could not be above three or four months gone ; and he affured me; that if fhe was not in the eighth month, fhe could not be with child at all. I then concluded that the had been obtructed four periods, and that the return of the menfes-had been miftaken for a flooding : and this was certainly the cafe; for the continued regular, without any other fymptom of pregnancy. The gentleman who at firt attended her, had, a few, months before this occafion, alfirmed, that he could at any time difcover whether or not a woman was pregnant, and tell the period of her gcitation within, eight days of the exact truth.

## C $A \quad S \quad E \quad I V$.

AMIDWIFE of Mary-le-bonne workhoufe follicited me to go thithicr: and fee a girl about twelve ycars of age, fuppofed to be eight months. gone with child, who was fent by the overfeers of the parith to lie-in at the houfe. She told me, that feveral gentlemen of the profeffion, as well as midwives, had examined her; that one of them had offered to deliver her gratis, and fome others had made great, inierelt to be prefent at the occation. I accompanied the midwife; and, firtt of all, examined the external parts; when finding the paffage fo finall, that I could not introduce the tip of my little finger, I made no hefitation in declaring that the had never converfed with man. 1 found a large fwelling betwixt the fero-f biculus corlis and the navel, which appeared to be the liver very much enlarged. The utcrus it could not be ; for I pufhed my fingers quite below it. and preffed in the parietes of the abdomen almoft to the vertebre of the: loins. The girl had been advertifed, and the matron had got money from numbers who went to fee her ; and notwithfanding my declaration, the farce was cartied on, until people began to fufpect the deceit, when the was fent to one of the hofpitals, for the cure of her hepatic, diforder.

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ALADY fent for me to peferibe medicines for a favourite maid who was obfructed; and from whofe forid countenance I immediately fufpected there was fomerhing extraordinary in the cale: for women troubled
troubled with fimple obftructions of the catamenia, are commonly, in the fixth month of the obftruction, of a pale bloated complexion. With great difficulty the was prevailed upon to let me examine the ftate of the uterus by the touch ; when I plainly felt the fitretching of the womb in the vagina, as well as the circumfcribed tumour a little below the umbilicus. By which circumitances, I was certified of her being fix months gone with child.

In many cafes, however, when the woman is fat, it is impoffible tojudge from this Atretching till about the feventh or eighth month.

La Motte, in chap. xi. book i. gives fevcral cafes on the infallible figns of pregnancy in the laft four or five months of uterine gettation.

Schenckius, in lib. iv. De Conceptione, p. $6{ }^{1} 7$, compiles, from different authors, feveral obfervations of young girls, who have conceived and bore children at the age of eight and nine, as well as of womein pregnant after the age of three-fcore.

Hildanus, cent. 2, obferv. 60, mentions a girl of eleven who had the menfes; and in obferv. 61, affirms, that this difcharge continued in a woman to the age of feventy-eight.
In the Memoirs of the Acadeny of Sciences at Paris, H. 1710, p. 16, we find an account of a woman, aged eighty-three, who married a man of ninety-four, and was brought to bed of a boy at the full time.

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\text { OFPREMATURELABOUR. }
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AWOMAN, imagining the had gone her full time of a firft child, fent for the midwife, who had attended her three days; the hufband came, and defired me to order fome medicines to quicken the pains; or, if I thought it more neceffary, to go and fee his wife. When I went to the houfe, I found the midwife at work in ftretching the parts, and, to ufe her own phrafe, in making room for the child to pals. I fat down to wait for a pain, during which 1 might examine; but nothing of that kind happening, I introduced my finger into the vagina, and felt the uterus quitelight, without the leaft diftention ; nor was any flretching perceptable in the abdomen (vide tab.v.) I then:declared the was either not at all pregnant, or very young with child, to the attonifhment of all the women, who could fcarce believe that the midwife, who was not a young beginner, could be fo far mittaken. For their fatisfaction, I defired they would fend for another midwife, who confirmed my declaration. The woman had never been regular in her menfes, of which but a little appeared at a time, and that feldom; and this finall evacuation, in all probability, proceeded from hier having been weakened by large diccharges from ferophulous ulcers. However, in eight months after this period, the was delivered of a full grown child; and, in all probability, the uneafincfs of which fhe complained, when I was called, was no other than breeding complaints.

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C A A S E \quad I I .
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AYOUNG practitioner in midwifery having attended a patient all night, fent for me in the morning, and told me that the cs uteri was a little opened, that the mombranes were broke, and the head prefented; that the woman had fight pains, and he had tried to ftretch the parts to no purpofe. Lipon examination, I found the os uteri open to the breadth of half-a-crown, but thick and rigid; and after having waited fome time, obferved that the pains were flight, and feldom recurred. This was her
firlt child; and, according to her account, fhe wanted three weeks of beo ing at the full time.
I told the gentleman, that, in my opinion, this was not real labour ; and that the pains had been brought on by a lourenefs, with which the was attacked the preceding day. In confequence of my advice, the was bled (her pulfe being quick) and took an opiate, which carried off the pains, though in three weeks the real labour came on.

## $C \quad A \quad S \quad E$ III.

IATTENDED a woman come to the full time of her firt child: The had for three days been fuoject to flight pains, which recurred every now and then : the os uteri was a little opened, but thick; and as the head prcfented, though the membranes had broke too foon, I refolved to allow fome time for dilating the os internum: I therefore prefcribed venæfection, a clyfter, and opiate; in confequence of which fhe enjoyed a good night : but after I was gone, it was imagined I wanted to protract the cafe, and a call was given to a midwife, who affirmed, that had the been fent for at firt, the patient would have been delivered before this period. The flight pains therefore no fooner returned, after the effects of the opiate ceafed, than fhe began to ftretch the parts, and fatigued the woman fo much, that they thought proper to call me again in the evening; when finding the pains inconfiderable, and the os uteri, though more dilated, "ftill rigid, I ordered the opiate to be repeated; and next day, the pains growing Itronger, fhe was fafely delivered.

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C A S E \quad I V .
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AB OUT fix in the morning, I was called to a woman in her firft pregnancy. The membranes were broke, the os uteri was confiderably opened; but the child's head being large, refted above the brim of the pelvis (vide tab. xii.) while the vagina and os externum feemed very narrow and rigid. The midwife had fatigued the patient by putting her in ieveral different pofitions: Her fkin being hot and dry, and the pulfe full and quick, fhe was bled to the quantity of ten ounces; a clyfter was injected; and, after its operation, the took a draught with twenty drops of the tinct. thebaic. and two drachms of the fyr. de meconio, which compofed and threw her into a plentiful fweat. I was called again at night; when I found the midwife had perfifted in f.tiguing her: the head was advanced to the middle of the vagina, but the parts below were fill very tight. I ordered the opiate to be repcated; the enjoyed good reft ; and the parts bcing gradually diftended, fhe was delivered next morning.

> | C O L L E C T I O N |
| :---: |
| Of natural Labours. |

## NUMB. I. CASEI.

OF THE OS INTERNUM OPENED BY THE WATERS AND MEMBRANES. [Vide 'Tab. x. and xi.]

IWAS befpoke to attend a woman in her firf child, and received a call about the middle of the ninth month, when fhe complained of pains in her head and back; and I underfood fhe was coftive, and troubled with a tenefmus, which the miltook for labour-pains. After hav-
ing felt her pulfe, which was quick, fat by her fome time, and put the ne ceffary queltions to the nurfe, I directed the patient to lie down on the fide of the bed ; and a quilt being thrown over her, placed myfelf behind, in order to examine. I found the os internum foft, but not open (vide tab. ix.) from which circumfance I declared the was not in labour: then I ordered her to be bled to the quantity of eight ounces, and a clyfter being injected, fhe was relieved of her complaints. In a fortnight after this vifit, I was again called, and found the labour begun; the os uteri was exceeding thin, and open to the brcadth of half-a-crown; the membranes with the waters were pufthed down by every pain, and the child's head refled upon the upper part of the os pubis. For three or four days the had been fubject to flight pains, which returned at long intervals; then they became more frequent, recurring cvery two hours; and, by the time I was called, they had grown ftronger, and came fafter. As the was fill coftive, I prefcribed an emollient clyter, by which the indurated fæces were difcharged; and then the labour proceeded in a flow and kindly manner, the membranes gradually opening the mouth of the womb. I did not confine her to any particular pofition, but allowed hcr to walk about, and undergo her pains either fitting or lying in bed. The membranes having fully opened the os internum, and being puffed down in a globular form to the lower part of the vagina, gave way during a pain, while fhe ftood leaning on the back of a chair; a large quantity of waters was difcharged, and the child's head funk down into the pelvis. This was her firt child; fhe was of a ftrong conftitution, and the external parts were very tight; fo that I would not put her to bed until the head fhould have come lower down, and gradually opened the os externum. But thefe parts being pretty well diftended, and every thing faft approaching toward delivery, fhe whis put to bed, which was prepared by the nurfe, and laid on her left fide : at every pain the head advanced farther and farther; the remaining part of the waters was gradually forced down, fo as to lubricate the parts: I then plainly felt the ear of the child at the pubis, the hindhead at the lower part of the left ifchium, the lambdoidal future croffing the end of the fagittal, and the fontanel on the other fide higher up in the pelvis; at which part the fagittal was likewife croffed by the coronal future. As the head advanced, the occipit was turned in below the os pubis; the foft parts of the mother, backwards, were protruded in form of a large tumour ; the os externums was widened more and more ; the perinæum lengthened to three fingers breadth, and the fundament to two : the crown of the child's head turncd gradually upward toward the upper part of the labia, the forehead being backward at the lower part of the facrum and coccyx: advancing itill, the back part of the neck was felt below the pubes; then the perinæum being ftretched to four or five fingers breadth, very tenfe and thin, I applied to it the flat part of my hand during each fuccceding pain, in order to prevent its being toren, and lit the liead be delivered in a fow manner, by rifing up with an half-round turn below the os pubis. The fame pain that delivered the head, forced down the fhouldcrs, which I helped eafily along, with ny fingers placed toward the arm-pits. I kept the child, after it was delivered, under the clothes, until it began to breathe and cry; then I tied and divided the funis, put a warm cloth round the head, and, wrapping it in a receiver, gave it to one of the affiftants. The placenta was gradually forced down into the vagina, and extrated by pulling gently at its lower edge, and at the funis. The chifld was a ftrong healthy boy, and the mother recovered to my wifh.

I have given a particular detail of this cafe, in order to makc young practitioners acquainted with the rommon method of acting in natural labours, thefe being the circumitances that ufually occur to an hcalthy woman in bearing her firtt child, Some flight pains recurring now and then for fome days before the real labour, are of advantage, in flowly and infenfibly dilating the os uteri ; fo that when the pains grow fronger, the delive $y$ is the fooner cffected. The os internum is very different in different women, with regard to the thicknefs and rigidity; and, in proportion to thefe, requires more or lefs time for the dilatation. In forty-nine cafcs out of fifty, the membranes break affer the os internum is fully opened, fo as that they are protruded into the middle or lower part of the vagina. After thefe are broken, the pains frequently abate for a fhorter or longer time, and then growing ftronger, the child's head is forced lower down, and the forehead turns gradually from the ifchium into the hollow of the facrum. Time Should now be given for the vertex to open the os externum, and this is moft fafely effected by flow gradual pains; for there is feldom occafion to lubricate or wfe other mcans for Atretching the parts, Indeed, in natural, labours, almof our whole bufinefs confifts in encouraging the patient, and preventing the fourchette, or frenum labiorum, from being toren, when the head is protruded through the os externum. For although it is commonly faid, that fuch a woman was laid by fuch a perfon, the delivery is generally performed by the labour-pains; and if we wait with patience, nature of herfelf will to the work. We ought not, therefore, to fatigue the patient by putting her too foon in labour, according to the common phrafe, but to attend carefully to the operation of the pains; and in moft cafes we thall have nothing elfe to do but receive the child.

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C A S E \quad I I_{0}
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IDELIVERED a woman in the beginning of the feventh month, of her third child. Her hufband had died fuddenly abour twenty days before, and upon that occafion the had felt the child move with great violence, and this was fucceeded by a kind of tremulous motion; after which the never felt it ftir. On the nineteenth day after this accident, fhe was taken with a-loofenefs, which brought on labour-pains; the membranes broke when the mouth of the womb was fully opened, and the was immediately deliyered of a dead child, which paffcd eafily along, though its abdomer was much fwelled.

## $N U M B . \quad I I . \quad C A S E \quad 1$.

## Of THE OS EXTERNUM OPENED BY THE MEMBRANES,

BEING called to one of the poor women whom my pupils attended, and examining in time of a pain, I found the waters had pufhed the membranes through the os externum, in a large, round, globular figure. When the pain abated, and the membranes became lax, I could eafily with my finger feel the child's head at the lower part of the vagina. I defired her to lie down with her breech to the bed-fide, and be covered with a quilt. The pains, which were frong, returning at fhort intervals, forced the membrares and waters with the child's head through the os extcrnum; cven the fhoulders, and part of the body, were delivered bcfore the brcaking of the membranes, which then gave way, tcaring all round from the edge of the placenta, and remaining upon the head and body of the child, which.
could not breathe till I had fripped them off. The woman had bore children before this labour; the pelvis was large, the child come to his full time, and of an ordinary fize; but the placenta came off with difficulty. I underflood the had not undergone above fix pains when I arrived; and before the pupils could have notice to come fhe was delivered. She expreffed great joy when fhe knew the child was born with a cawl, which the dried and carefully kept, in full perfuafion that her child would never fuffer extremity, either by fea or land, while it remained in her poffeffion.

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C A S A \quad I I .
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BEING called to another poor woman, whom I delivered by myfelf, the membranes, waters, and head, were protruded through the os externum, while the patient ftood leaning on the back of a chair: then the membranes breaking, were toren all round before the fhoulders were deliyered, and remained flicking on the head: the fame pain brought forth the body and the placenta; and I arrived juft in time to prevent the child falling on the ground.

$$
C A S E \quad \text { III. }
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IATTENDED a perfon who fell in labour in the latter end of the eighth month : The had formerly had quick labours, and now the pains were ftrong and frequent. The membranes and waters had opened the os externum, and the head of the child was low down, though it did not advance in proportion to the protrufion of the membranes, which at laft were forced down about the fize of a child's had, without the os externum. While the head was retarded in this fituation, the weight of the waters ftretched down the membranes, and formed the appearance of a large bag, narrow at the upper part, which I pulled away, and threw into a bafon. In three pains more, the was delivered of a child, which had been dead eight or ten days, with a fwelled abdomen, which had retarded the birth.

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C A S A \quad I \dot{V} .
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BEING called, in a great hurry, to a gentlewoman in labour of her firt child, in the beginning of the feventh month, I found that the membranes, with the placenta,-waters, and child, had been delivered all together, and put in a bafon by the nurfe; fo that the membranes were whole, and the child fwimming in a great quantity of water. Without remembering to fearch for the allantois, Iopened them in ahurry, and perceived that the child had been dead ten or fourteen days.

$$
C A S E \quad V .
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MY affiftance was demanded for another patient, come to the full time in her firlt child: the labour was flow; but, by degrees the waters and membranes opened the os internum and externum without breaking, and the woman was delivered of a dead child, whofe belly was fiwelled.

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G A S E V
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IDELIVERED a woman in the eighth month, whofe os externum was ofened by the mombranes and waters, which were pufhed out a great way: the child's head was likewife partly protruded, but yielded a very
uncommon feeling to the touch, as if there had been another fet of mem= branes and waters, within which I thought I felt the loofe bones of the shull. When 1 broke the membranes, I felt the hairy fcalp, and difcovercd an hydrocephalus in the child ; which was foon delivered, and lived fome days, though, from its continual moaning, it feemed to be in grcat agopy. Vide colleation xliii. No. 13.
Befides thefe, 1 have affifted in a great number of cafes, where the membranes have opened the os externum, and the head has been delivered before they broke. Indeed, in all natural labours, I wait for this operation, which renders the paflage for the child much more eafy : and I never tell the good woman whether or not the membrane remains upon the child's head, that they may not have an opportunity of indulging an idle fupertition.

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N \cup M B . \quad \text { III. } \quad C A S E \quad I .
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Of the os internum opened by the child's bead and membrancs. Alfo of the as externum oponed in the fame manner. Vide tab. xiii.

BEING called to a woman in labour of her fecond child, I felt the mouth of the womb largely open, and the midwife faid that the membranes were broken. This declaration had alarmed the woman, who entertained an idle notion, that if fhe was not immediately delivered, the would lofe her opportunity; and indeed this apprehenfion was the caufe of my being employed. After the had undergone two or three pains, I found that the head had gradually increafed the dilatation of the os internum; that the membranes were not yet broke, and that the midwife had certainly miftaken a fimall difcharge of urine for the waters. I then affured the patient that fhe was in no danger; and that, even though the membranes had been broken, the delivery ought to be left to the labour-pains: in confequence of which, the head was foon forced down into the middle of the pelvis: and the os uteri being fully dilatcd, I felt the membranes very finooth. Another pain forced the head down to the lower part of the pelvis, when the membranes fplitting upon the head, I could plainly diftinguifh the hair of the fcalp; and the patient was, in a little time, fafely delivered by the midwife. I could feel no waters during labour, and there was only a fmall quantity difcharged when the body was delivered.

Both before and fince this occafion, I have becn concerned in many cafes of the fame nature, which generally prove eafy and fuccefsful, and happen when the child is furrounded by a fmall quantity of water. I have been fometimes puzzled to know whether or not the membranes were broken, until the head came fo low down, that I could eafily introduce the fore and middle fingers, and feel the hairy fcalp. However, this uncertainty is of no confequence in fuch eafy labours. At other times, I could feel no waters, until the head defcended low down, and then I have perceived them protruding the membranes at the back part of the pelvis. Vide tab. xiv, and $x$.

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C A S E \quad I I .
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IATTENDED at a labour in which the child's head came down in the fame manner as that dcferibed in the proceding cafe: the child was fmall, and came eafily along; but 1 could feel no waters, nor did the membranes give way until the head was delivered. In other cafes where there was little or no water, the membranes generally broke fooner.

## NUMB. IV. CASE .

## OF A SMALL CHILD OR LARGE PELVIS,

BEING called to a gentlewoman, who had befpoke my attendance in confequence of her having been formerly fubject to lingering labours, from the large fize of the child and the fmallnefs of the pelvis, found, before I, could reach the place, fhe was delivered; and this uncommon facility proceeded from the very fmall fize of the child, which was born four or five weeks before the end of her reckoning.

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C & A & S & E & I I .
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MY attendance was befpoke for a woman in her firt labour, by her friends, who were afraid it would be difficult, becaufe the was pretty much diftorted, had been fickly during pregnancy, and took but very little nourifhment. For two or three days the had been fubject to night pains, but when they became ftronger, I was fuddenly called; and when I reached her houfe, found the child coming into the world. It was very fmall, the pelvis of a middling fize, and the os uteri was pufhed down without the os cxternum. The fuddennefs of the delivery occafioned an inflammation of the mouth of the womb, which abated in confequence of her drinking plentifully of diluting liquors: yet, after the ninth day, fhe complained of great pain in that part when the fat up, but was tolerably eafy while fhe lay in the bed. For this reafon, I prefcribed a longer term of confinement than is ufual, and directed a foonge dipped in warm claret to be put up in the vagina, and this application to be repeated feveral times in a day : by thefe means the complaint vanifhed by the end of the month.

## $C A S E$ III.

ABOUT fix of feven years ago, I was called to a patient on the thirteenth day after delivery, who laboured under the fame complaint which I have defcribed in the preceding cafe, and which was likewife the confequence of fudden delivery: The pelvis was large, and the os uteri being fwelled and painful to the touch, I ordered her to be confined to her bed. The family phyfician being confulted, it was agreed that the fhould drink plentifully of weak caudle, chicken-broth, and, for a change, barley-water, in order to promote a diaphorefis; and that equal parts of the emollient decoction and French claret fhould be applied in the vagina, with a fine linen rag. For many days the pain always returned when fhe rofe from bed, till one night, being told the child was very ill, the ran up to țhe nurfery in a hurry, and this motion entirely carried of the complaint.

I have been concerned in many cafes where the woman fuffered, though not to fuch a degree, when the labour was precipitate, the child fmall, or the pelvis large.

Many women have befpoke my attendance, and, notwithftanding all my expedition, have been delivcred before I could reach the place. One woman in particular bore five children fo fuddenly, that although I lived in her neighbourhood, and happened always to be at home, I never could arrive time enough to affift her, except in her firt child.

## C OLLECTION XV。

Of lingering or tedious labours.

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\text { NUMB. } \quad \text { I. CASE } \quad \text { I. }
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FROM THE RIGIDITY OF THE MEMBRANES WHEN PUSHED DOWH WITH THE WATERS.

ABOUT feven in the evening I was called to a patient whofe pains were pretty ftrong. The mouth of the womb was largely open, the head prefented at the upper part of the pelvis, and, as ufual, refted againf the fuperior part of the os pubis; and during every pain, a imall quantity of the waters pufhed down the membranes at the back part of the pelvis. I waited to fee if the child's head would advance, and though the os internum was fully open, would not venture to break the membranes; becaufe, when I attended her at the birth of her firt child, the preceding year, the labour was lingering and tedious, from the large fize of the head, even though it had advanced farther, and the membranes were broke, I therefore was loth to break them until the head fhould come lower down; and fhe continued without any fleep or ref, fubject to pretty fevere pains at the interval of five or fix minutes, till about feven in the murning, when, in fpite of all my care to prevent her being fatigued, and the encouragement of the family phyfician, who was prefent, her fpirits began to flag ; fhe exclaimed fhe fhould die before delivery; and the friends feemed to be anxious and uneafy about her fituation. During all this time the head had not advanced in the leaft, nor were the membranes with the waters farther pufhed down. I introduced my finger into the vagina, and, after two or three unfuccefsful attempts, burf them during a ftrong pain, by which means a large quantity of waters was difcharged, and the head forced down to the middle of the pelvis. This being effected, fhe was foon delivered of a fine child, though fmaller than the former.

## $C A S E I I$.

AB OUT three in the morning I was called, by a midwife, to a woman in labour of her firf child. I undertood that the pains had been Atrong and frequent, and that the friends being uneafy, recourfe was had to my advice and affiftance. I examined during a pain, and found the mouth of the womb open to about the breadth of a crown-piece, though the os uteri was pretty thick and rigid. She had been fatigued by walking, and undergoing her pains ftanding, and in various other pofitions, had enjoyed little or no reft for two nights, and was very coltive. I preferibed an emollient and laxative clyfter; after the operation of which, I again examined during a pain; found the os internum much in the fame condition, the ,membranes being ftrongly pufhed down with the waters. When, upon the pains abating, the membranes became lax, I felt the child's he 1 , which being touched by the finger, fwam up and returned: a circumftance that plainly proved there was a great quantity of waters. I affured the patient and her friends, that the child prefented fair, and that there was no apparent danger ; then I advifed the midwife to put herto bed, without expofing her to any farther fatigue, or defiring her to force down, except when compelled by the pains; and in cafe the fhould not otherwife enjoy fome reft, I prefcribed the following draught:-Rx Aq. alexit. fimp. 3 xiv. Tinct, thebaic. gt. xv. Syr. e meconio. 3 ij . m. and directed her to drink
frequently of weak warm caudle; to promote a diaphorefis. Next evening I received another call, when the midwife gave me to undertand that the had taken the draught, in confequence of which, the had enjoyed refrefhing reft, and a plent ful fweat, although the had been frequently waked by the pains; and fhe told me that the membranes were not yet broken, although the mouth of the womb had been fully opened for four hours. When I examined, I found the membraries pufhed down with a large quantity of waters to the lower part of the vagina; and when the pain abated, felt the heäd pretty low. It ftill moved eafily up and down; whence I concluded, that either it was fmall, or the pelvis not narrow; yet, as this was her firft labour, I waited two hours, in hopes that the membranes would advance farther, and open the os extetnum ; but they remaining in the fame fituation, I imagined their rigidity retarded the delivery; and breaking them in this perfuafion, the child was foon delivered.

## $C A S E$ III.

BEING called, by a niidwife, to a woman who had been four-andtwenty hours in labour of her firft child, I foun the mouth of the womb largely open, the waters pufhing down the membranes in a large ylobular figure; and as the violence of the pain abated, I felt the head of the child refting at the upper part of the os pubis. The midwife told me the patient had been in that condition feveral hours, but that fhe was afraid of breaking the membranes too foon, becaufe fhe fufpected that the woman was a little diftorted, and the pelvis narrow: however, the friends being concerned at her being fo long in labour, and a difcharge of blood fupervening, the had thought it neceflary to afla advice. After having twice again examined during pains, and maturely confidering the café, I concluded that delivery was retarded by the rigidity of the membranes, which feemed to be thicker than ufual ; for as the child's head fwam up from the touch, and returned, it was plain that it could notbe engaged, and that there was a great quantity of the waters. Though fhe had not to all appearance loft above twelve ounces of blood, yet, as the difcharge feemed to increare, I broke the membranes the next pain: a large quantity of waters was difcharged, and the child's head was forced more backward, toward the upper part of the pelvis. I likewife felt the os internum loofe and foft; and as it was no longer kept on the ftretch by the membranes and waters, fhe became perfectly eafy, had no pains for a long time, and the flooding entirely cealed. Before the membranes wore broken, fhe had felt a ftrong propenfity to fleep, which the pains prevented; but now J ordered her to be undreffed, put in her naked bed, and kept quiet, that, if poffible; fhe might enjoy fome natural repofe. She accordingly retted, and was refrefhed. As for the blood the had loft, the was rather benefited than injured by the difcharge ; for the had for fome weeks complained of a drowfinefs, fulnets in her eyes, with pains and giddinefs in the head; which were now removed, infomuch, that fhe declared herfelf much more light and eafy: I defired the midwife to indulge her in her repofe, and when the pains fhould return, to let the labour proceed in a flow and eafy manner, allowing time for the head to ftretch the vagina and external parts; and I told her, that the patient being ftrong and healthy, nothing elfe was neceffary but that the fhould frequently drink weak caudle, broth, or barley-water, to encourage and fupport a plentiful perfpiration. I was afterwards informed, that fhe flept feveral hours, and upon the return of the pains, was fafely delivered by the midwife.

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C A S E I V \text {. }
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IAT'TENDED a gentlewoman, though not in labour of her firt child, who fuffered all the complaints defcuibed in the preceding cafe, exscpt the flooding. By my advice, the loft eight ounces of blood, and was immediately relieved : but the labour being retarded by the tigidity of the membranes, though the child's hcad was pretty far advanced in the pelvis, they were broken; and in two or three pains after, the woman was delivered.

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N \cup M B . \quad I T . \quad C A S E \quad I .
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FROM THE RIGIDITY OF THE MEMBRANES WHEN NOT PROTRUDED BY THE WATEKS.

ABOUT four orclock one morning, I was called by a midwife to a woman whom the had formerly delivered with eafe; but now the had been in ftrong labour for many hours. She faid, the waters had been draining off for the space of three hours, and the had every pain expected the deliyery, which fhe fuppofed was retarded by the child being large and dicad. I found the child's head about two-thirds down in the pelvis, and diaring every pain pocceived the difcharge of a very little water, which I at firt minook for thofe of the uterus. But, upon the ceflation of a pain, raifing the head a little with my finger, I obferved a large quantify was difcharged from the bladder; and when I fele for the hair of the fcalp, I found the membrancs fmooth and unbroken. I again raifes the head, that the patient might difcharge more urine, and then the membranes fplit. By the next pain, the head was forced down to the os externum, and in a very little time the child was delivered.

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G A S E \quad I_{1}
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NEAR the fame time I attended a wornan in labour of her firt child, and could feel no waters, though the head and membranes had gradually opened the mouth of the womb, and were forced down to the middle of the pelvis; where, however; they remained near two hours. As I could infinuate iny finger all round the under part of the child's head, fele the ear as the os pubis, and diftinguifhed the fusures, I concluded that the head was not large, nor the pelvis narrow ; hut that this delay muft proceed from the rigidity of the inembraics. Thefe, therefore, during a pain, I endeavouted to wear thin, by rubbing them with the edge of my nail, which was fmooth and fhort: accordingly, in time of the next pain, they fplit upon the head, which was imnediately forced down to the os externum; and this being gradually dilated, the child was delivered.

I have been concerned in many cafes of the fame kind, where labour was retarded by the rigidity of the memhranes; but as I have freguently known edious and lingering cafes proceed from too much precipirarion in breaking the membranes, I choofe rather to err a little on the other extseme, provided the patient is in no danger from weaknifs or flooding.

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N \cup M B . I I I . \quad C A S E I
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## FROM THE MEMBRANES BREAKING TOO SOOIN.

MY attendance was befpoke to a patient who was very fat and unveildy. She had been taken wisn very night pains, and the membranes breaking, a great quantity of waters was difcharged; upon which, heing called in a great hurry, I found the mouth of the womb opeas to about the breadth of a fixpence, and thin though rigid. She had beca, fiye years be-
fore, delivered of a child which followed immediatcly after the rupture of the membranes, and the now expected the fame expeditious delivery. If told her that there was a great difference between that labour, occafioned by the long interval, by her prefent corpulency, and the precipitate difcharge of the waters, which might render the cafe more tedious; though, as the pains were trifing, and the child prefented fair, I encouraged her to excrt her patience, to'banifhall anxious thoughts, and avoid all manner of fatigue; and as fhe was coftive, I prefcribed a clytter, which had the defired effect. After this period, the continued three days and three nights in a lingering kind of labour, before the mouth of the wombwas fufficiently dilated; fo that I was obliged to give her an opiate every evening, and direct her to referve her ftrength by lying moftly in bed. The os internum being fully opened, the pains grew ftronger, and the was foon delivered of a very fmall child.

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G_{1} A S E \quad I I
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IWAS called to a poor woman who had been two days in labour of her third cliild, and found the os uteri open to about the breadth of a fhilling. the lips being thick but fhort; the membranes were broken, the child's head refted at the upper part of the pelvis, and the patient laboured under a loofenefs, whieh probabliy had brought on fome Right pains. She had been attended by a perfon of no education or practice im midwifery; who finding the membranes broken, imagined it was his bufinefs to promote the delivery with all poffible expedition; and with that view, fatigued the pacicnt exceffively, by ordering her to walk about and bsar down with all her' force at every inconfiderable pain.

The woman being quite exhaufted, I directed her to be put to bed and kept quiet, and leaving a gentieman and midwife, who at that time were my pupils, Idefired them to give her five grains of the pilulce faponacere, and repeat the dofe once or twice, if there fhould be occafion. By thefe means fhe was freed of pain, procured reft, and recovered her exhaufted fpirits. She continued eafy for two days, except in time of flight pains, which every now and then recurred, and during which, a frall quantity of the waters continued to be difcharged: but on the third night, the pains in. creafed, the os uteri became fofter, and was more and more dilated by the child's head, which advancing, plugged up the parts, fo as that the dribbling of the waters ceafed; and ini a very little time the woman was fafely delivered.

## $C A S E$ IIF.

SOON after this occafion, I was called to a labour by a gentleman of very little experience in the practice of midwifcry, who, taking me afide, told me he was juft going to deliver a woman whom he had attended a night and ax day, and that, as his character was not eftablifhed, he thought it advifeable to have a perfon of the profeffion $p$ refent. Indeed I was ftruck with his apparatus, which was very extraordinary, for his arms were rolled up. with naptins, and a theet was pinned round his middle as high as his breaft. His intention was to turn the child and deliver fontling; and he defired me so examine the woman, that I might fatisfy the friends of the neceffity he was under to take this ftep immediately, for the prefervation of the mother and the fruit of her womb. I felt the os internum open to the breadth of a crown-piece, and the head prefenting; and after having fully informed.
myrelf of every circumftance neceffary to be known, I concluded that the labour had been rendered tedious from the premature ruptule of the nembranes. I then gave the gentleman a fricndly advicc in private; in confequence of which he laid affide his working drefs; and as the woman, who was Atrong, hadienjoyed no reft the preceding night, an opiate was adminiltered. She flept feveral hours, and was tcfrefhed, and toward morning, the pains returning, delivered the child and fecundines. I have affited in a number of fuch cafes, where, by a cautious management, the parts were gradually opened, and the woman fafely delivered. In many women, I have known the membranes broken feveral days, wecks, and even months, before labour; and, provided they were not much weakened, they have been delivered with eafe. In my practice, this cafe has chiefly prevailed among fat women, and may perh aps be owing to laxity.

$$
C A \& E \text { IV. }
$$

## Comminicated by Dr. Urban, of Riclomond, in Surrey.

HE was called to a woman in labour, near Norwich. The waters hat been drained off for two days, during which the had enjoyed no reft. She was very weak and low-fpirited, had violent retchings, with a fingultus; and when he examined, he found the child's head prefenting. He directed her to be put to bed;; prefcribed an anodyne draught, in confequence tof which fhe had a refrefhing fleep of two or three hours.; then the pains, which were weak before, grew Itrong and more frequent, and the woman was fafely brought to bed.

He fays, he could have delivered with the forceps; but followed my advice, which was never to ufe them but when they were abfolutely neceflary. The fame method he has fuccofffully ifed upon feveral occafions.

$$
C A S E
$$

IWAS called to a patient in labour of her firft.child. The membranes broke in the evening, and the had frequent pains all night; but would not allow me to exanine till about eight o'clock next morning, when I found the child's head refling atove the pubes, and the os uteri foft and lying loofe, as if it had been precty largely opened before the membranes broke: but the vagina was vcry fraight, its well as the os externum. She enjoyed no reft all night, the pains grew cxceffively ftrong and frequent, and the child's head had not advanced in the lcaft. Being apprehenfive from her wiolent complaints of the abdomen, that the utcrus would buaft by fuch Atrong;efforts, 1 prefcribed a parcgoric draught to allay the violence of the pain and procure tleep. As the had been ufed to take opiatcs, the dofe amonsted to thirty drops of the tinct. thebaic. with 3 ij . Fyr. meconiu. and fome fimple cinnamon-water. This prefeription had the defired effect, the flcpt feveral hours, though every now and then her fleep was interrupted by a frong pain. About twelwe that night, when the effect of the opiate was wore off, her violent pains recurring, I was allowed to examine again; and finding the head ftill in the fame fituation, the draught was repeated. This kept her tolerably cafy till eight in the morning', when the pains res.urning, it was again adminiftered : for the fame reafon it was reppeated at fix in the evening, and four in the morning. About cight I was permitted to examine the third time, when I felt the head pitched down in a teng-: thened form to the middle of the pelvis: but the lower part of the vigina was
still very narrow, as well as the os externum, and time was required for di* lating both, and for puining down and elongating the head, which was large. At the beginning of labour the had fome loofe ftools, but made no water for three nights and two days; fo that when the effect of the opiate ceafed, the diftention of the bladder aggravated the agony of her fufferings, yet noperfuafions would induce her to let me draw off the urine, and I was again obliged to repeat the opiate. Her ftrong pains, which every now and then recurred, fhe endeavoured to fupprefs, left I fhould defire to examine, and would allow nobody to be with her but the nurfe. At length I was, in the evening, fuddenly called from another apartment, and finding the head almof delivered, I hid juft time to prevent the laceration of the external parts. If felt a languid motion in the veffels of the funis; but could not, by all the ufual methods, bring the child to breathe. I brought away the placenta, found the uterus in a right ftate, and immediately drew off a large quantity of urine with the catheter. Neverthelefs, I was obliged to repeat the draught four or five times in four-and-twen'y hours, becaufe the could neither refl nor l, eat without it ; her pulfe flagged, and her fpirits funk, and no other cordials had the leaft effect. After delivery, her urine was obfruged for three days, and for eight weeks afterwards the lof the power of retention, which however returned with her ftrength. As for the child, it was probably lof by her timorous difpofition, in confequence of which the refuled all afintance at the latter end of labour.

## COLIECTIONXVI.

Of lingering and tedious labours.

$$
N \cup M B, \quad J . \quad C A S E \quad I .
$$

## EROM THE FOREHEAD EEING PREYENTED FROM TURNING BACKWAR INIO THE LOWLR CONCAVE PART OF IHE SACKUM.

[Vide Tab, xiif: and Sect. iii. No. iii.i]

IWAS oalled to a woman who han been lorig in labour of her firt child, and was naturally of a weak and delicate conllitution. On that account, the nidwife told me the had kept her moftly in bed, and done nothing to fatigue her. She faid the labour had gone on very well, though the fains were flight and at long intervals; and that fince the difcharge of the waters, the child's head had advanced Mowly to the external parts, where it had ftoped for a confiderable time. This account I found true upon examination. A clyter had been adminifered with good effect, and the patient had enjoyed a good deal of feep between the pains: but finding her pulfe rather too weak and languid, 1 directed her to take two fyoonfuls of the following mixtyre every half hour:- P Aq. cinnam. ten. $\overline{3}$ iv fs. Spisituof, fal. vol. c. c. Эfs. Conf, cardiac. Өj. Syr. fimp, žf. m. I attended forre time without perceiving that the head advanced to open the os externum. I felt onc of the ears at the os pubis, the lambdoidal croffing the end of the fagital future at the lower part of the right os ifchium, and the fontanel on the oppofite fide at the upper part of the teft. I perceived that the pains had not force enough to move the occiput fro the right if:
chium, fo as to pafs under the os pubis, and the forehead from the oponfite fide to the hollow of the os facrum; I therefore, during the nex: pain, introduced my fingers towards the child's left temple, and turned the forel cad backward to the os facrum. The narrow part of the head heing now tom ward the fides and lower part of the pelvis, the vertex immediately advanced forward, gradually opening the osexternum during every pain; and the woman being fafely delivered, the placenta feparated nowly, and wat difcharged in about half an hour.
$C A S E I$.

BEING called to a woman in labour of her firft child. I found a midwife and a male practitioner in waiting. This laft gave me to underftand, that when he came, the patient had been a long time in itrong labour: shat after the mouth of the womb was fuficiently opened, the meinoranes had broken, and the pains gone off for fome time, though they returned with greater violence, and forced down the head to the lower part of the pelvis, beyond which fituation it had not advanced in a whole hour: that he had attempted to deliver it with a lack or fillet, which he had procured as a great fecret; but the head being large, he could not fix it properly, neither could he, after repeated trials, bring the child by the feet: fo that the concluded there was an abfolute neceffity for opening the head. Upon examination, I found the head in the fame polition as th it defribed in the preceding cafe, or rather higher in the pelvis. The pains were tolerably ftrong, the woman's pulfe was much more quick than is ufual, even in time of pains. She complained of a violent head-ach, latyoured under great drought, and her ikin was very hot and dry. Of thefe complaints. however, fhe was relieved by lofing ten ounces of blood from her arm. I told the gentleman, that as the patient was itrong, and che pains continued. we ought to wait the efforts of nature, without ufing either forceps or fillet, which I never apilied, except to affift nature when the was too weak. When I exanined again, 1 found the head lower dowr, and moved the forehead backward toward the os facrum; fo that the crown of the head advancing, opened the os externum, and the patient was foon delivered of a child of in extraordinary fize. But the fillet having galled and coren part of the hairy fcalp from the ocriput, was the occafion of a violent inflammation, of which the chiid died in a few days. The mother, however, recovered tolerably well; and fince that time has had pretty eaiy labours.

## $C A B E$ IH.

AMIDWIFE fent for me to a very fat woman, near the age of forty. in labour of her firt child. The membranes had been long brokea hefore I came; and I underitood that the friends, being uneafy, had fent for a gentlenan of the profffion, who, in attempting to deliver the patient. faid he had broke his inftrument, and went home in order :o fetch another: but inftead of returning, he fent a meffage, importing, that he was obiged to go and attend another woman. Her pains being lirong, the os externuan and lower part of the vagina were gently tilated; and the forelead being moved backward at the fame time, the head advanced, and the woman vas delivered in about half an hour after I arrised.

There was a very fmall opening through one of the parietal bones of the child's foull ; yet none of the cerebrum was evacuated, thrugh a great deal of blood was difcharged, notwithtanding the application of proper compreffes; and the poor child died moaning in five or fix hours after its hirth.

## $C A S E$ IV.

IN the courfe of the fame year, I was called by a gentleman who had formerly attended me for a fhort time, in behalf of a woman whom he had attempted to deliver with the forceps. He faid, he was fure they had been properly spplied; that he had pulled with great force, without being able to move the child's head; and that the avoman was in fuch imminent danger, he did not believe fhe could live until we fhould reach the houfe. Notwithftanding this declaration, I found her pulfe ftrong and good, as well as the pains; and that not above one-third part of the head had come down into the pelvis. I likewife undertood fhe was ufed to have tedious labours, proceeding, in all probability, from the Imall fize of the pelvis. I pivately convinced the gentleman of his error; oblerving, that as the pains were good, no force ought to be applied; that the forceps would never fucceed, except when the head was come bower down ; and even then ought not to be ufed, unlefs the woman was in danger from weaknefs and want of labour-pains. We prefcribed a mixrure, to amufe the patient ; and in about five hours fhe was fafely delivered.

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N \cup M B . \quad I I_{0} \quad C A S E \quad I_{0}
$$

Of the vertex prefenting, though low in the pelvis, the forelsead being tow ward the os pubis.-Vide tab. xx. xxi.

AMIDWIFE fent for me to a woman whom fhe had attended near two days, and whofe former labours had been xery eafy; from which circumftance the inferred, that the child was of an extraordinary rize. I found the fontanel toward the left groin, and the lambdoidal croffing the fagittal future at the right fide of the os coccygis. The os externum I gently opened during every pain, raifing the head a little when the pain began to abate, and moving the forehead to the left fide of the os facrum. As the next pain increafed I withdrew my hand, which was followed by the child"s head, and the woman was in a little time delivered.

## $C A S E I I$.

ATTENDED a gentlewoman who had been eafy in her former labours. When I was called the membranes were broken, and the mouth of the womb was largely open, though the head advanced very nowly. At length, feeling the vertex at the lower part of the coccyx, and the fontanel below the pubes, I attempted, but to no purpofe, to raife the head, and move the forehead to the right fide of the pelvis: yet, when I withdrew my hand, the head was forced lower down by a ftrong pain; the vertex protruded the perinxum and pofterior parts, in form of a large zumour; the forehead, face, and chin, turned inmediately out from bedow the pubes; and the vertex was raifed upward, with an half-round tura, from the perinxum and pofterior parts. The child was fmall, and cried as oon as the head was delivered, even before the body was cxtracted.

## $N \quad U \quad M \quad B . \quad I I$.

FROM THE PRESENTATION OF THE FONTANEL.
HAVE often becn conccrncd in cafes where I found the fontanel pre-
fenting: they commonly proved tedious and lingering, though the delivery was generally effected by the labour-pains, and the child's head
fometimes appeared in form of a fow's back, a circumftance', in' all probability, owing to the prefiure it fuftained in' the pelvis, while it advanced in that unufual way. Sometimes, in thefe lingering labours, I have, by raifing up the forehead with my fingers, altered the pofition, fo as to let the vertex fink lower down; purticularly in the following inftance' :-

$$
C A S E L
$$

IATTENDED a gentlewoman; whom I had formerly three times delivered, after the had eafy labours. The os uteri was now fully open, and the membranes broke foon after I arrived; yet the head did not advance as ufual, but refted at the upper part of the pelvis. As the had beers long fatigued with fevere and fruitlefs pains, I examined the pofition of the head more naprowfy, and plainly perceived the fontanel prefenting in the middle; but I could not certainly difcover how the forehead lay, until I had gradually opened the os externum during the pains. It then found that the vertex was to the left fide, and the forehead, with the face, to the oppofite part. As the lay in bed, upon her left fide, I could not fo eafily affit in that pofition; the was therefore turned on her back, her head and fhoulders being raifed a little with pillows, and her knees held ap toward her belly, as fhe ilay acrofs the bed; for her pains wepe alfo ftronger while the continued in this pofture. In the beginning of a pain, I gently introduced my right hand into the vagina, and raifed up the forehead and face; and the pain increafirg, I witherew my hand, and found the vertex fink down to the lower part of the left ifchium. In a few pains the forehead turned backward, the hindhead came out below the pubis, the os externum: *as gradually opened, and the child fafely delivered.

$$
N U M B_{0} \quad I V . \quad C A S E
$$

FROM THE PRESENTATION OF THE FOREHEAD. [Vide Tab. xxii.]

BEING called to a woman in labour, by the friends, who were unealy at the lingering eafe, and inagined the midwife kept her in hand, becaufe fhe had been feveral times delivered by another midwife, and her labours were eafy, I underfood the os uteri was fally opened, and the membranes had been broken feveral hours; that the child prefented fair, and the pains were flrong; yet the head had advanced very little, though, fince I had been fent for, the child had defcended confiderably lower in the pelvis. Upon examining in time of a pain, I really imagined the vertex. prefented, and thought I felt the fontanel to the fide, as in other cafes; bue when the head advanced, in confequence of furcceeding pains, and protrudtil the perinæum and pofterior parts, I felt the cyes and nofe on the contrary fide, toward the lower part of the os ifchium. In another pain or two, the os externum being fufficiently dilated, the face turned in below the os pubis, over which the chin turned upward; the fontanel, vertex, and hindhead were raifed, and came out with a fenicircular turn from the perinæum and parts below, and the body was delivered by the fame pain.

The child was fmall and dead; its forehead was raifed up in form of a fu-gar-loaf, the vertex being prefled flat, and the face and hairy fcalp very much fwelled.

The mother for feveral days affer delivery, complained of great pain in her back and at the pubes, which feemed to proceed from an over-Atraining of the ligaments at the juncture of the bones; but by lying quiet, and drinking plentifully of warm and weak diluting fluids, the enjoyed profufe fiweats, and foon was feeed of thefe complaints.

## $C A S E$ II.

THE following year, I affiled in a fimilar cafe, where the head was high up, and had long reited at the brim of the pelvis. At firlt I thought f: prefented fair; but as it did not advance for feveral hours, notwithitanding the flrong pains, and I was told that the patient had been delivered of her fecond and third chill before the midwife could reach the houfe, I concluded that the head did not prefent in the common way, and introduced my fiand fowly into the vagina, as the lay on her left fide. Finding the forehead prefenting with the face to the right ilium, I pufhed it up to that fide, and as I withdrew my hand a little, fill preffed it up with my fingers, that it might not return before the next pain, which forced down the vertex from the oppolite fide; the head defcended gradually; and the woman was delivered in a few pains.

$$
N \quad U \quad M \quad B . \quad V .
$$

## EROM THEPRESENTATIONOF THEEARS.

IHAVE known a few cafes in which the ear prefented; and whera the child was not lirge, the pains commonly altered the polition, by forcing down the vertex, and the patient"aseiffly delivered. This was commonly the cafe, too, when the fontanel prefented: hut when the head was large, the labour was more tedious and lingering; upon which occafion I ufually pufhed up the head fo as that the vercex might advance, parcicularly in the following inftance:-

$$
C A S E I .
$$

BEING called by a midwife to a woman who had been long in labour. lintroduced my hand into the vagina, and finding the ear prefenting, could purceive, when I raifed the head, neck, and Thoulder, to the back part of the uterus, that the upper part of the head lay over the pubes, the face being to the right fide. As all the waters were difcharged, it would hate required great force to turn the child fo as to bring it by the feet! I therefore raifed the head higher, forcing the forehead upward, and the vertex coming in as I withdiew my hand, the child was prefently delivered.

$$
N \cup M B . V I . \quad C A S E \quad I
$$

## FROM The ERESENTATION OF THEFACE, SHOULDER,

> AND EREAST.

## [Vic'e tali; xxiii.]

BFING called to a woman who had heen a great many hours in labour, after the mouth of the womb was fully opened, and the waters difcharged, I found the head low down in the pelvis, the face prefenting, the chin at the lower part of the pubes, and the cheeks fo excellively fwelled, that at firt I imagined the lireech prefented ; until examining a fecond time with my fingers. I felc the mouth, eyes, and nole. When the friends aked is the cafe vias dangerous, I precipitately anfwered, that there was no gre.it danger but that of lofing the child, which might be faved if the mother was foon delivered. They replied, that provided the mother was fafc, the child wiss of no great coniequence, as fhe had already more children than fhe could well maintain. The patient told me, the felt the child ftir cvery now and then; asd indeca I felt its motion by laying my hand on her belly. Howcerer, as every body prefent declared againt my giving any affitance, and werc fatisfied with my telling them the woman was in no immediate danger,

I left her to the care of the midwife, who indeed had oppofed my being called. I could eafily have delivered her with the forceps, and ought to have faid, in general, that there was danger in the cafe. I knew the child's head was fmall, and that the delivery was retarded either by the navel-1tring or the contraction of the lower part of the uterus round the neck, or before the fhoulders; for tlie head was pulled up as the pains abated.

This vift I made in the afternoon ; and the child was not delivered till the evening, when I was called again in a great hurry to bring away the placenta, which was eafily extracted. I examined the thild, which was dead; and found its head fqueezed to a great length, the face and neck being much fwelled, and of a livid colour.

## $\begin{array}{lllll}C & A & S & E & I I .\end{array}$

IEXAMINED one of the poor women, attended by my pupils, in labrue of her firft child, which lay very high, and I thought I felt the breech prefenting. The membranes had broken when the mouth of the womb was dilated to the breadth of half a crown. The pains being flight and the woman ftrong, 1 defi ed the gentleman to let the breech be purhed down gradually, and flowly dilate the os internum; and; in the mean time; I left a midwife to attend, and directed her to give us notice when that dilatation Thould be effected. In about three hours I was called again; and undertood from the midwife, that after the mouth of the womb was fully opened, the child defcended very faft, prefenting at firlt with the cheek, but that now fhe plainly diftirguifhed the face. When I examined, I found the chir down to the lower part of the leftifchium, and turned up below the pubis: In a few pains, the os externum being fufficiently dilated, the forehead and vertex turned up from the perinæum, and the woman was immediately delivered of a fmall child, before any of the pupils arrived.

$$
C \text { A S E III. }
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## [Vide Tab. x̀xv.]

SOME years ago, I was called to a wonan in labour, by a midwife, who told me fhe found the opening of the child's head below the fhare-bones, and imagined the child came wrong, with the forehead to that part. At firt when I examined I was of the fame opinion; but during th $\cdot$ next pain, which was very ftrong, I found the head was pulhed down much lower at the back part of the pelvis. Feeling at that part, with my finger, for the lambdoidal future, I plainly diltinguifhed the face, and the chin backward at the coccyx. In two pains inore; the face and forehcad protruded the pofterior parts in form of a large tumour, the perinxur and fundanent were greatly lengthened, the vertex and occiput dipped out from below the pubes; then the forehead and face turned up from the perineum, which being thin. I fupported it with my hand, and the woman was delivered of a fmall childo Her pelvis was large, and the ufed to have very quick labours'.

$$
\begin{array}{lllll}
C & A & S & E & I V
\end{array}
$$

IATTENDED a gentlewoman, whom I had twice before deliyered, after tedıous labours, proceeding from the largenefs of the children and the fmall fize of the pelvis. When I was called on this third occations, the mouth of the womb was open to about the brcadth of a crown-piece, the
membranes and waters were very tenfe during a pain, but being relaxed. when that abated, If felt fonte part of the child, though more unequal than the apex of the head. Having waited till by degrees the membrartes had fully opened the parts, and were pufhed down to the lower part of the vagina, I examined again, and felt thechild's face prefenting through the inembrancs. Reflecting upon hor former tedious laljours, and forefeeing that if I allowed the head to come along in that pofition, the patient would fuf'fer, and that if I hould brimg it by the feet, the child might be loft, I directed her to belaid on her back, with her breech to the font of the bed, and fupported with pillows, between a fitting and a lying pofture, on pretence that the labour would befavoured by fuch a fituation. While a woman fat behind fupporting her head, and one on each fide held up her logs and knees, I gradually dilated the os externum during the pains, until I could introduce my hand into the vagina. In pußhing it farther up, I fclt the membranes break; but, my hand fill advancing, the os externum was plugged up by the lower part of my arm, which hindcred the waters from bring difcharged, until feeling the chin to the right, and the forehcad to the left fide, I raifed this laft upwards, grafuing the vertex, which was now lowermoft, with my fingers and thamb. I then gently withdrew my hand a little, to let the waters pafs, that the uterus might be contracted, and keep the child in that pofition. Finding this expedient fucceed, I drew forth my hand, when the patient thought the child was delivered. Howerer, I convinced her that what I had done was abfobotcly neceffary, and that fhe was now in a fair way of delivery, provided the would exert that courage and patience which had fupported her in her former labours. Nor was I difappointed in my prognoflic; for this delivery was much quicker than thofe fhe had experienced before.

## $\begin{array}{lllll}C & A & S & E & V\end{array}$

MY attendance was required to a woman in labour, by a midwife who had formerly attended my lectures; fhe informed me that the mouth of the womb was largely open; and although the membranes sere not broken, fhe could find fomething like a hand and fingers: the likewife told me, that the woman was flraight made; that the had delivered her once before, when the labour was very tedious, and the head of the child, which was dead-born, fqueezed to a great length. I found evcry thing as the defocribed, and felt befides fomething like the fhoulder or hip, which I was certain could not be the head. As her former labours had been difficult, and I was afraid the child would be loft, fhould it be brought by the feet, I refolved to feize the opportunity of trying to bring in the head, fince the membranes were not hroken. I accordingly acted pretty much in the fame manner as in the preceding cafe; but found greater difficulty in bringing in the head, which was more flippy and large than in the former inftance ; befides, I loft a great quantity of the waters, by being obliged, after I had pufhed up the thoulder, to withdraw my hand a good way before I could bring in the head, and in attempting to raife up the hand that came down with it. 'The vertcx being turned down, and one of the ears toward the verrehre of the loins, I withdrew my hand, when the forehead with the righ--land was to the right, and the occiput to the left fide of the pelvis, and the pains crafed for fome time, as ufual, after the membranes are broken. llaving triow encouraged the woman, by telling her that the child prefented fair, I took my leave; and in about three hours fhe was fafcly delivered, though not without very ftrong and fevere pains.

## C. $A \quad S \quad E \quad Y$.

SOON after, I was called to a woman whom I had before delivered of a child that prefented wrong, though I could not fave it by reafon of her narrow felvis. On this occafion, the had been fubject to frequent though night pains the day before l faw her; toward morning the inembranes had broken, a frmall quanticy of the waters was difcharged, and fhe had no more painstill my arrival. Upon examining, I found fome part prefenting, which could neither be the head nor breech, and I afterwards difcovered to be the breaft. As the pains had ceafed, I was in hopes that fome of the waters were left in the utcrus, although the membranes were broken; and going to work as in the two former cales; brought in the vertex, with great difficulty, occafioned by the nippinefs of the body and head, which laft was, after many efforts, and the return of ftrong pains, fqueezed down in a longitudinal form, and the woman fafely delivered.

In thefe cafes we are feldom called in by the midiwives before the membranes are broken, otherwife we fhould, in preternatural pofitions, have a better opportunity to bring in the vertex, when the pels is is fo fmall, or the head fo large, that the child cannot be faved, if brought by the feet,

## $C A S E$ rII.

## Communicated by Mr. Hargood, in a letter from Chatbam.

wHEN he was called, the midwife told him the waters had been difcharged feveral hours; and he found the face prefenting low in the pelvis, the chin being toward the right ifchium. After the had undergone feveral pains, which did no fervice, he refolved to deliver with the forceps, but juft when he was about to apply them, fhe was feized with a ftrong pain, during which he affifted with his fingers in moving the chin towards the pubes, and the child was fafely delivered.

## $C A S E$ VIII. <br> Communicated by Mr. Cook.

IWAS called to a woman in labour, and felt the child's face prefenting. I underfood the had undergune two tedious labours before, though the children were very fmall; whence I concluded her pelvis was narrow, and in paffing my hand into the vagina, I found it fo. Upon which I laid afide all thoughts of turning the child and delivering by the feet, as I fhould have done had the pelvis been large. The face being high up, and her pains very ftrong, I waited to fee if they would bring it lower down; and in about fix hours my expectation was anfwered, the chin being at the 1 ft ifchium. I then, during the pains, endeavoused to raife it to the us pubis with my finger, and in that manner the child was delivered. The head was fqueezed into a long form, tl e parictal bones were preffed one or er another, and on one fide of the head uas a very deep impreflion formed by the jutr ting in of the os facrum. 'The face was very moch briifed ard fwelled, and the child dead. I prefcribed an opiate for the woman, who had undergone great fatigue ; fhe enjoyed good rcft, and did well.

## C O L L E C T I O N XVII.

## Of tedious cafes from the rigidity of the os internum, vagina, or os externum; as alfo from the wrong pofition of the mouth of the Womb.

NUMB. $I . \quad C A S E I$.

## OF THE RIGIDITY OF THE OS UTERI.

IW A $S$ called to a woman turned of forty, in labour of her firt child, who, though, by her own and midwife's account, the had three or four weeks to ga, had been in a kind of lingering labour for two days. At fix in the evening the membranes broke; and as fhe lived at a diftance, I could nof be with her till about four next morning; when the inidwife told me, that after the membranes broke, fhe had every now and then a Atrong pain, but that the mouth of the womb was not open as ufual to thefe. pains, and the was afraid that the womb and all together would be puthed out of the body through the os externum. Upon examining in time of a pain, I found the mouth of the womb open to about the breadth of half-acrown, but thick and rigid, and forced about half an inch without the os externum, which was pretty much dilated, and I felt the child's head pre. fenting. There was an intenfe heat at the mouth of the utcrus, and fhe complained of great pain in that part, even in abfence of the labour-pains. She was of a ftrong and healthy conftitution, though of a thin habit: her' pulfe was quick, full, and hard ; her fkin hot and dry: The laboured under a fevere drought, and I underfand fhe had from time to time fwallowed cordials to affit the labour, fach as white-wine and malt-fuirits. Having confidered the circunitance of the cafe, I concluded that the difficulty of delivery was owing to the rigidity of the os internum, for fhe had lain chiefly on the bed, without having been fatigued; that the head was but fmall, becaufe it had pufhed the mouth of the womb fo low down, and that the fever was owing to an indifcreet ufe of firitubus liquors. In confequence of thefe reflections, the was bled at the arm to the quantity of twelve ounces, dirested to drink plenty of barley-watcr, kept in bed, lying on one fide, her breech being raifed a little higher than her body, and during every pain I kept up the uterus and head with my fingers, fo as to refitt and abate the violent force of the pains. By thefe means the was greatly relieved; enjoyed between whiles gentle flumbers and plentiful fweats; tho mouth of the womb urned more foft and yielding, and when largely dilated, I pufhed it gently up with my fingers all round the head, which at laft glided eaflly along, and was delivered. I took the fame precaution in delivering the fhoulders and body, defired the midwife to confine her to bed longer than the ufual time, and advifed her to abfain from any violent exercife for a confiderable time after the fhould be able to walk, in order to prevent a prolapfus uteris

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IATTENDED a patient, near forty, in labour of herfirft child, who had been afflifed with a prolapfus uteri during her pregnancy. When I was called; the had fome flight pains, the mouth of the womb was very
little open, feemed thin and rigid, and was fituated more forward in the vagina than is commonly the cale; the child's head was prefled low down and feemed fimall, but I could feel no waters. Her pulfe being very quick; the was bled to the quantity of cight ounces; an emollient and laxative clyfter bcing injected, difcharged a great quantity of hard fæccs: and as the had enjoyed no fleep that day or the preceding night, I prefcribed an anodyne draught, and dircked her to drink plentifully of barley-watcr. There expedients fucceeded to my wifh; the flept and fweated during the greateft part of the night, and I was called again in the morning, when the pains grew ftronger and more frequent. I then found the mouth of the womb much more open, though pufhed down without the os externum; I likewife felt between my fingers the hair of the child's head, though the patient was not \{enfible that the membranes were broken, or the waters drained off. During every pain, I kept up the child's head; and the mouth of the womb, which I gradually dilated with my finger, till being fully opened, it eafily flipped up all round the head, and this afterward opening the os extcrnum by degrees, was fafely delivered.

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SOON after, I was befpoke to attend a woman who had been fubject to tedious labours. When called, I found the child's head pufhed down to the anterior and inferior part of the uterus, fo much at the fore part, that it was fome time before I could feel the mouth of the womb, which was tilted backwaid and upward to the upper part of the os facrum. In a few pains, the head pufhed down the uterus below the pubes, to the os externum, when I felt the os uteri very thin and foft ; and the patient complained of grcat pain from this protrufion of the lower part of the womb by the head. However, the was in a great meafure relieved by my preffing againft it with my fingers. At the fame time, introducing the fore-finger of my other hand into the mouth of the womb, I brought it forward to the pubis, and kept it in that pofition during feveral pains, which gradually dilating it, the head was puthed lower and lower, and by degrees Ithut up the mouth of the womb, betwixt the pubes and head, which afterward made very quick advances, and was foon delivered.

## $C A S E I V$.

AW O M A N I attended in labour of her firt child, whofe belly was pendulous, and hung forward over the pubes (ride tab. xii.) When I came fhe was pretty frait-laced, the pains were ftrong, the membranes puhed down with the waters, the os internum was backward, and high up, felt thick and rigid, and was opened to about the breadth of half-acrown. I directed her to unlace, cefired the nurfe to make the bed fo as that her breech might lie higher than her fhoulder, and to raife up the belly with her hands in time of a pain. The mouth of the womb was gradually dilated, the membranes broken, and the child's hcad advanced lower in the pelvis; but the os internum remaining ftill backward, and the head preffing down the lowcr and anterior part of the uterus, I was obliged to affift, as in the former cafe, until the head was forced down, though it dilated with great difficulty, and to ftretch the os externum, from time to time, before the child could be delivered.

BEING called to a patient not alove fifteen years of age, in labour of her firlt child, I found the head of the child prefenting, and that she membranes and waters, after having flowly dilatedothe os internum, advanced quite to the os externum, which I hoped they would open alfo; but they broke juft as they arrived at the part. Then the head advanced, and pufhed out the lower parts, in form of a large tumour, the perinæu!n being very thin, and ftretched to the extent of five fingers. Neverthelefs, the os externum was very little dilated, and the pains were fo ftrong, that I was obliged to prefs the flat part of my hand upon the parts, to prevent the fourchette from being toren, and, by refifting the force of the head againft the os externum,: allow it time for gradual relaxation. The pains continuing to return every five or fix minutes for the face of an hour, without any alteration, I found it neceffary to prefcribe an opiate to refrain them, that I might have time to lubricate with pomatum, and dilate gently with my fingers. By thefe means the os externum was gradually iffetched fo as to allow the head to pafs without any laceration of the partso

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ABOUT the fame time I attended another patient, though not fo young, and the labour proceeded much in the fame manner; bnt after having guarded the parts, in order to prevent laceration during a few pains, I withdrew my hand to take fome pomatuon, for lubricating the external parts. In that interval a frong pain returned, contrary to my expectation; and, before I could replace my hand; the child's head was delivered, and the perinæum toren quite to the anus. This accident was awing to my hurry and precipitation, in confequence of which I paffed my hand on the outfide of the fheet, and before I could difengage it, the damage was done.

Ever fince this misfortune, when I attend women in labnur of their firt children, I always, turn up and pin the upper theer to the bed-quilt, as the child's head adyances to the lower part of the pelvis.

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C \text { A S E VII. }
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## Communicatcd by Dr. Aufin, of Edinburgho

HE was called to a young woman in labour of her firt child, who had acute pains from Tuefday to Saturday night, when fie was delivered. All that time the child's head was fqueezed in the pelvis, and for twentyfour hours the bones rode one another in the vagina, About two hours before fhe was laid, he attempted to introduce the forceps, which, however, he declined ufing, becaufe the pains became ftronger, and ha imagined the child was dead. Indeed, to all appearance it was ftill-born; but in a few minutes he was agreeably furprifed to find it alive, and both the child and the mother did well. Two days after delivery, he extracted from the wo: man five Englifh pints of urine with the catheter.

## C O L L E C T I O N XVIII.

of lingering or dangerous cafes, from weaknefs, anxiely, frights, floodings, loofenefs, convulfions, fevers, \&c.

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FROM WEAKNESS.

IWAS called to one of the poor women whom my pupils attend, in lat bour of her firft child. She was young, and fo excefively weak, from want of nourifhment, that when we were called the feemed really ex piring. Another patient, who lived in the fame houfe, faid, this young woman was an entire ftranger, who had been taken in as a lodger the preceding night, and feemed to be in a farving condition; and at laft the poor creature herfelf owned, that the had received no fuftenance but water for three days. She had been fubject to fome ilight pains all the former day and night; when I examined, I found the mouth of the womb largely open, the membranes broken, and the head prefenting; but the pains were at long intervals, and her weaknefs fo alarming, that I immediately fent for a roll and fome ale, which was qualified with a little fugar, nutmeg, and genera; to which laft I fuppofed the was accuftomed, and therefore judged it was a better cordial than any other I could have prefribed from an apothecary's fhop. Of this nourimment I directed her to take a very little at a time; and accordingly her exhautted fpirits were gradually recruited, infomuch, shat although the cafe was lingering and tedious, fhe was fafely delivered by the labour-pains.

## $C A S E L I$

AMIDWIFE called me to a woman of a weak habit and melancholy difpofition, accafioned by the exceffive flooding which had attended a former delivery. She had become pregnant again before fhe recovered her frength, was feldom able to rife out of bed, and her ftomach was fó weak, that it could receive or digeft but very little nourifiment. The midwife told me her pains were fo weak the was afraid the could not be delivered without afififance ; that the had enjoyed little or no lleep for the fpace of forty-eight hours, but had been fubject to frequent faintings, from which the was with difficulty recovered; and, laitly, that the month of the womb was foft and a little open. I felt her pulfe very low; and examining during a pain, which feebly proteuded the menhranes and water9, perceived the child's head: then bringing forward with my finger the os uteri towards the pubes, I found it much more open than the midwife imagined, and felt fome indurated faces in the rectum. I was alfo informed, that as the had an averfion to all forts of nourimment, the eat very little, and feldom had paffage in her belly, and was commonly coftive.

1 directed her to take frequently a tea-cup foll of chicken-broth, and, hetween whiles, a little of the weak cinnamon-water. A clyyter of the broth being thrown up. emptied the inteftines; then half a p nt of the fame, in which two grains of opium were diffolved, being inje ted, I defired that The might be kept quiet in bed, in hope of procuring her feep, and take an ounce of ftrong cinnamon-water every four hours. By theie means the faistings went off; fhe flept pretty well that night between the pains; and thefe gradually increafing, fhe was fafely delivered in the morning.

## $C A S E$ IH.

ATTENDING a gentlewoman in labour of her third child, who was of an hypochondriac difpolition, went feldom abroad, and toward the latter end of pregnancy could hardly be kept out of bed, was, in the beginning of the eighth month, attacked with frequent retchings, fo as to vomit up every thing fhe eat or drank; by which complaint the was reduced to a ftate of exceffive weaknefs from want of nourifhment.
I ordered the nurfe to inject about half a pint of beef or mutton broth by way of clyfter, five or fix times a day; to prevail upon her to rife frequently and walk about the room, and likewife to go abroad fometimes in 2 coach.
By this method the recruited a little; and with the affiftance of fome mint and antihyfteric water, fhe could keep a little broth in her ftomach. I nanaged her much in the fame manner as that deferibed in the former cafe in time of labour, which, though tedious, ended happily.

## $N U M B, \quad I I . \quad C A S E I$ and $I I$.

FROM ANXIETY AND GRIEF.

ATTENDING a gentlewoman in labour of her firft child, who, a few days before, had been fo much affected with the fudden death of her hubband, that fhe was feized with frequent faintings and great anxicty of mind, found, when I arrived, her pains were very weak, and the membranes had boken eren before the mouth of the womb was much dilated. Although the child's head was fmall, the continued three days in a kind of labour; yet by encouraging and fupporting her with cordials and nourifhing things, and indulging her as much as poffible with relt, fle was fafely delivered of a child; which feemed to have died foon after the heard the melancholy news of her hufband's death.

Another gentlewoman fent for me in the fame circumftances, overwhelmed with anxiety, in confequence of her hufband's death, which had happened about two months before her labour. I found her folow, and the cafe was fo tedious, that I was afraid fhe had not firength to undergo the delivery ; yet by the management defcribed above, fhe was fafcly delivered of a weakly child.
I have attended many other women in labour, whofe lives were endangered by great weaknefs, proceeding from various caufes; yet by fuch managetnent they were fafely delivered. Anxiety, misfortune, and difappointinent, frequently reduce women in labour to the verge of death. Labour is often brought on by frights proceeding from different accidents; fuch as that of fire in the neighbourhood. The earthquake in the year 1749 produced feveral cafes of this kind; and any thing that affeets the paffions to a degree of violence or tranf fort, will have the fame effect. On thefe occafions, if the child is fmall, delivery is fometimes performed on a fudden: but if the labour was begun before the patient was feized with the emotion, it commonly went off; nor did the pains return for a long time. However, if thefe frights, \&cc. are not attended with violent foodings, convulfions, or fevers, the patients gencrally recover, though fometimes the children are dead. Nay, even when thofe bad fymptoms have accompanied the cafe; lhave known both mother and child happily faved.

## FROM FLOODINGS.

AWOMAN near hot full time fent for me, who was feized with flood= ing and labour; in confequence of being frightened by a fire which happened in the houfe, as well as from the fatigue incurred by removing the firniture. When I arrived, the fire was extinguifhed, and I found her lying upon hay in a barn, lofing blood very fatt. The mouth of the womb being pretty largely opened, I immediately broke the meinbranes, which, with the waters, were pulhed down in every pain; and the hwmorrhage foori ftopped: the patient was very cold from the feverity of the winter feafor, and the thinnefs of her coverigg. While I practifed in the country, I always carried in my pocket fome firite of hartshorn, tincture of caltor, and liquid haudanum, in feparate bottles. Of thefe, with the alfiftance of fome brandy and water, I compofed a cordial and anodyne mixture, of which fhe took frequently two or three fpoonfuls; and being accomnrodated with more clothes from the neighbourhood, fte recovered her natural heat, and at laft enjoyed a plentiful fweat, and refrefhing repofe: The pains were flowly augmented with long intervals; as her pulfe and ftrength returned, the labour advanced; and although it was tedious, flite was at laft delivered. Yet her fleep was afterward interrupted by frightful dreams of fire, and fhe often awoke in a delirium; fo that twenty days elapfed before fhe was out of danger. She had fuckled her former children, but had no milk after this delivery, and but a very fmall difcharge of the lochia, thefe evacuations being impeded by the difturbance of her thoughts $i$. Her greatelt danger, however, feeming to proceed from weaknefs, occafioned by the lofs of fo much blood, I thought the principal object of regard was the circulation, which was kept up by the cordials and reftoratives; and as fhe was every no:v and then futject to fhiverings, and laboured under a low weak pulfe; I prefcribed repeated dofes of the bark, and the moderate ufe of French claret, from which fhe found great benefit.

When labour is brought on, and a flooding occafioned by fuch alarnns; fo that the patient is exhaufted by the hæomorrhage, this is either dininifhed or entirely carried off by breaking the membranes; and of late I have frequently fucceeded in floodings that happened before labour, by gently dilating the mouth of the womb with my finger, fo as to bring on the labourpains, as in the following cafe:-

I was called by a midwife to a womarr feized with a flooding in the middle of the ninth month, though no vifible caufe could be alifigned for this hæmorrhage, and the had bore children before with eafy lathours. As the difcharge was not fo great as to require immediate alliftance, and her pulfe was rather ftrong th n otherwife, I ordered her to bebled to the quantity of eight ounces, and to be kept quiet in hed. Being coltive, fhe re-fcived a clyiter, tuok frequently two fpoonfuls of a mixture $c$ mpofed of fix ounces of the tincture of rofes, and about twenty drops of liquid laudanum. The flooding abated, and fhe reted tolerably well that night ; but when fhe rofe to have her bed made, fone large clots weie difcharged with a little pain, and the flooding returned, though it was foon reitrained when the lay down again. In this condition he continued for feverai days, during which, upon the leaft motion, fome ciots, or co gula, were forced off from the vagina, and followed by a fiefly difcharge, which; notwithftanding all our efforts to encourage her, an.t lupport her itrength, gradually weakened her confitution. It returning anc evening with greater violence, I was catled in a hurry, when I found her low and difpiried,

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BEING called to a patient about the end of the eighth rronth of her fecond pregnancy, the midwife told me, that the waters had been difcharged two hours before my arrival, and the flooding fopped; that feeling fomething like a flethy fubltance come down, the had tried to pull it away, on the tuppofition that it was a falle conccption, and that thefe atten:pis were followed by a large quantity of blood. This fubftance, upon examination, I'found to be the placenta low down at the os externum; and fliding my finger between it and the os pubis, I felt the child's head. During the next pain, the was delivered of the placenta, which was much lacerated, and a dead child. I have been concerned in nany cafes, where the flouding, when inconfiderable, was cafily flopped, and the woman proceeded to the full time.

SOME time ago I was fert for to a woman after the midwife had made ufe of all her art to no effect. Upon enquiry, 1 found the had not gone her full time; the membranes were broken, and there had been, and fill was, a profufe flooding. On touching. I could find no os tincx. I then introduced my hand with fome difficulty through the os externum, but could not readily' meet with the os tince, being oppofed by a foft flethy fubfance, which I took for the placenta, and which proved to be fo, as I afterwards found. The child lying fo high, and being hindered by the placenta, I could not get my hand beyond the os internum to feel the child, which put me to a ftand. However, having taken out my hand, I kept my countenance as well as I could, and advifed the woman to be of good cheer. Now, from the great effufion of bloud, together with the foregoing circumfances, I thought it abfolutely neceffary to attempt her delivery, by opening the contracted parts, and turning the child; but I had no fooner fat dow'n before her, than, providentially, the had a ftrong pain or two ; and, to my great furprife, the child was brought into the world (the placenta coming firfl) inclofed wịthin its membranes. This plainly convinçed me of the error of fome who have afferted, that the plicenta always adleres to the fundusuteri'; feeing, in this cafe, it was the reverfe. With regard to this cafe, the information 1 hould be glad to receive is this:-Suppofe the child had not been born as it was, whether I hould have endeavouired to pars by the placenta, or extracted it bef, re the child ? And fuppofe part of the os tincx is covered with part of the placenta, how to act?Fide collect. xxxiii. No. ii. cafe iii.

## Anfiver to thefe qacries.

I had a cafe pretty near the fame kind; the placenta adhercd to the lower part of the pucrus, and as the os uteri began to firetch, that part feparated from the placenta, and thein a fimall fooding began. When I was caled', the patient had fome labour-pains, and on examining, I found the os internum open about the breadth of half-a-crown, and the placenta preffed a liftle down into it. As the difcharge was not great, and the woman flrong, I delayed to deliter until the os internum fhould be more open, Some hours after ihis, I was again calledः the flooding was pretty violent ; I found the os internuin fully opencd, and the placenta fully prefenting. I laid the woman on her back, with her thighs raifed ; then in-
placenta prefented ; that the pains were very flight and at long intervals; and that the flooding was then more violent than when the was called. I my felf felt the pulie was not fo weak as one would have imagined, confidering the qu:intity of blood the had lott.

In this patient, who had formerly bore children, the difcharge began to appear in the beginning of the eighth month, returning fvery now and then, when lae ven uied lo go abruad; but, by the advice and affiftance of another ger.tleman, who w s now obliged to attend another patient, it had been kept within bounds till this period, which was the beginning of the ninth month.

As the woul. not permit me to examine. I privately advifed the midwife to introdace her hand by degrees into the vagina, and feel all around for the edge of the placenta, at which part the might tear the mem') nes: fhe accordingly felt them at the left lide; and a large quantity of waters seing difcharged, the child's head advanced, prefling the under pait of the placenta to the right fide. T hen the pains increafed, the head gradually dilated the os uteri, a id being fmall, defcended lower and lower, lo that in a few pains the patient was delivered. The flooding abated when the waters were difcharged, and was entirely ftopped as foon as the head plugged ap the os internum. Firom time to time I felt her pulfe, which continued in much the fame flate, or rather tirned ftronger, from which circumftance, I concluded there was very little, if any, interual hxmorrh ge; and her ftrength was kepr up by her taking frequently a tea-cup full of broth, or wine and water.

## $C \quad A \quad S \quad E \quad V$.

AMIDWIFE called me to a gentlewoman, whom the had formerly delivered of feveral children. This patient was taken with a fmall difcharge of blood in the beginning of the ninth month, when I prefcribed yenafection and a cly,ter; after the operation of which, fhe received a paregoric draught. But the difcharge continuing for feveral days, though in a frmall degree, I examized and found the incurh of the womb very fott, placed fo hugh, and fo far backward, that I cuuld not perceive the placenta prefenting, though I telt through the vagina and uterus that the child's head refted againit the os pubis. As the uifcharge did not weahen the patient, nothrifg was done; but I laid an injunction upon her, to refrain from going abroad. In about eight or nine days from this period, the was attacked with labour-puins, and the flooding increafing, I received annther call, when I was informed by the midwife, that the mouth of the womb :was largely open, that the waters had been dircharged immediately before my arrival, that the placenta had cume low down, but the could feel no part of the child. Aitronag pain inmediate.y fucceeuing, 1 examined and found the placenta pufhing through the os externum: and t e delivery of this was iumediately followed by that of the chuld, which w s alve, allhough the placenta came nrit. The midwite told me, that when fhe found the placenta prefenting, the was cautious of touching it with her fingers, rememering, that when the attended iny lectures, I nat onferved, that the death of the child, in Hooding-cafes, might be owng to its loling blood from the laceration of the cake.
and het friends in great anxiety and coniternation. I had previcufly int formed the midwife and relations of the imminent danger that threatenta the patient, if the flooding fhould not abate, or labour comec on; and defired th $t$ fome other gentleman of the profeffion might be confulted for their and my fatisfaction; however, this propofal they declined. Thus left to my own difcretion, and feeling the os uteri very foft, though vary little open, I gently introduced the tip of my finger in order to dilate it, and defired the patient to affit my efforts by fraining downward. This method being gradrally repeated every now and then, the parts were opened to the breadth of half-a-crown, and I priduced fome might pains that returned of themfelves. Notwithflanding feveral attempts, I could not break the membranes, until gradually ftrerching the os externum during every pain, fo as to introduce my hand into the vagina, 1 tried to advance my finger fa ther up; hut not fueceeding, I infinuated the female catherer, which breaking through the chorion and amnios, the waters were difeharged in great quantity, the flooding immediately abated, and the child's head was preffed down upon the mouth of the womb. She now laty eafy for a long time, without the seturn of a pain, diaring which interval fhe was nourithed and fupported by frequently receiving a little broth; but being afraid that there might be an internal flooding fopped up by the child's head, I defired her to force down, while I raiied the head with my finger; and accordingly feveral coagula were difcharged from the uterus. It then thought it advifeable to bring on and encourage the pains, by fretcriing as before; and, to my wilh, the parts were more and more dilated, the pains grew ftronger, and at laft the patient was fafely delivered. During labour I frequently felt her pulfe, which, inttead of finking, rather grew ftronger.

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AMIDWIFE fent for me, and told me that the patient haxd been feized with a violent flooding, but labour coming on, the inembranes had broken, and the hæmorrhage was abated: fhe had fent for me, becaule the found the navel-fring in the vagima, and the woman was sery weak, and had little or no pains.

Indeed the was fo low that I could fcarcely feel her pulfe; her lips were pale, and her extremities cold. I found the funis in the vagina, but could feel no pulfation: the child's head prefented, but was kept forward to the os pubis by the lower part of the placenta, which lay along the facrum; however, the flooding was entirely ftopped.

I inmediately directed her to take fome of the folution of portable foup.is and hot bricks wrapped in flanmel being applied to her feet and hands, in about an hour her pulfe grew itronger, her extremities recovered their natural warmth, and the pains returned. Finding the head was hindered from advaneing by the plaeenta, I brought down this laft, and the patient was gradually delivered of a fmall dead child ; but the continued fo weak, th t for many wecks after her delivery, the was fearce able to walk about the roomis

## $C A S . E$ IV.

HE friends of a gentlewoman, who had been feized with a flooding
the preceuing night, fent for me. The midwife told me, that the mouth of the womb was open to the breadth of a crown-pieee; that the

T have of fen khown, in fuch cafes; premature labour-pains vanifh, and she woman procced to her full time.

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N U M B . \quad V . \quad C A S E \quad I . \text { and } I I_{0}
$$

## FROM CONYULSIONS.

IW AS called to a woman by a midwife, who told me that the labour had proceeded very well ; that the membranes had not broken until the mouth of the womb was largely opened; luut that the head was no foones forced info the upper part of the pelvis, than the patient was thrown into violent convalgons, which went off and returned with every pain. She was a ftrong young woman, of a florid complexion. This was her firlt child: her pulfe being full, hard, and quick, ten ounces of blood were immediately talsen from her arm : the convulfions abated every pain, uncil they went off entircly ; and in about an hour after they left her, fhe was fafely delivered.

A woman in her third pregnancy, near her full time, being taken with a giddinefs, which was inmediately followed by ilrong convulfions, 1 was called by the midwife; and examining in timc of a convulfion, found the mouth of the womb open, and the convalion forcing down the membranes and waters in the fame manner as they are ufually prefied down by the la-bour-pains. She was infenfible, and thefe fits returned every fix or eight minures. Her pulfe being very quick and full, 1 ordered her to be bled to the quantity of ten ounces, and a blifter to be applied to her back. In confequence of thefe remedies, the convulfions abated and foon went off; but She was ftill infenfible, and incapable of fwallowing any kind of liquid. The friends being averfe to my delivering her, I defired, that in cafe the convalion thould return, I might be immediately called in order to deliver her, otherwife the would certainly be loit. My prognoftic was literally verified, for in about an hour after I went away, they returned with fuch violence, that the expired before I could reach the houfe; but the child was delivered during one of the fits.
I attended feveral patients who were attacked in this manner near their full time, fome of whom were relieved by bleeting and blitering, and went on to the ufual period; while others, with whom this method did not fireceed, were, with the children, faved by inmediate delivery. Other practitioners had cafes of this kind during the fame time; fo that they feem to have proceeded from the conftitution of the weather. Vide part iiio. collect xxxiii. No. iii.

## $\subset A$ S III. Communicated by Mr. Mudge, of P'ymouth.

HE bled a woman in the morning, in the ninth month of her pregnancy, who complained of a violent head-ach. He was again called in the 'evening, when the was feized with convulfions, for which he prefuihed a clyite=, blifter's, a nervous mixture, and drops. At nine the fits became more violent, and continued longer ; and concluding that immediate delivery was abfolutely neceflary to fave her life, he exa.nined by the rouch: then putting the patient in a proper pofit.on, he introduced his lia id into the vagina, and tried to dilace the os uteri, which was very rigid, fearce fo open as to almit a quill, and at firtt very difficult to be diltinguilh id. After feveral unfuccefsful trials with his finger, he was obliged to defift. in hope that it might be better difuofed to dilate by next morning: lefore
tions for the fpace of twelve hours before iny arrival. I was told by the midwife, that the was in labour of her firlt child, though the wanted about three weeks of the full :ime: but 1 was not allowed to examine, a circumftance at that time of little confequence, becaufe whether fhe was or was not in labour, the fifft intention was to carry off the vomiting and loofenefs, and recruit her loit ftrength and fipirits with all poffible expedition. I immediately ordered her to fwallow large draughts of mutton-broth, which I found ready made, mixed with warm water; and thefe being thrown up at feveral times with a little ftraining, fhe took thiriy drops of liquid laudanum in a glafs of brandy and water: but this being inmediately rejected by her ftomach, I gave her half the quantity of the laudanum in a little broth, and applied to her ftomach a piece of brown paper, moiftened with laudanum. She now began to be gradually relieved of the pain, vomiting, and loofenefs; fo that I was permitted to examine, and found the mouth of the womb thick and foft, opened to the breadth of a crown-picce. I likewife felt the membranes, waters, and child's head. The complaints beginning to return, J repeated the laft dofe; and in abour half an hour after fhe had taken it, fle fell into a found feep, which lafted feveral hours, and awoke very much refrefhed, her complaints being entirely removed. All that day fhe felt no labour-pans; and as the was very weak, 1 directed her to take frequently a fmall draught of pretty ftrong chickenbroth, by which fhe was gradually recruited. She nept well that night, and in the morning was taken in labour, which proved tedious and lingering, though fhe was at laft delivered of a large child, which was dead, and in about fix weeks the was perfectly recovered.

I was again called to a gentlewoman attacked by a violent fuperpurgation, in confequence of having caught cold, by fitting in an open chaife in rainy weather, when the was eight months gone in her fecond pregnancy. She had been exhauted by the evacuation the preceding day and night; during which the enjoyed no repore : and in the morning, when I was called, I found her pulfe weak and now, and her extremities cold ; and fhe told me, that in fraining upon the ftool, fhe h d fomething like labour-pains. I immediately prefcribed the following bolus and draught :- B Theriac. andromach. Đij. fumend. cum hauftu fequen-ti.- H Aq. cirnamom. fimp. 3 ifís. Nuc. mofchar. $\overline{\mathrm{j}}$ s. Liquid laudan. gut. v. fyr. e meconio $3_{i j}$. M.-I directed her to drink plentifully of white-wine whey: and ordered warm bricks, wrapped in flannel, to be ape plied to her legs and arms, in crder to reffore the natural heat, to promote $a$ fweat, and encourage reff. In the mean time I examined and found the os uteri largely open, and the head prefenting; and by feeling the hairy fcalp, perceived the membranes were broken. In confequence of what I had prefcribed, her extremities became warmer, her pulfe rofe, fhe fell - into a breathing fweat, and flept three hours; but being waked by a pain and fiefh ftraining, I ordered her to take half the quantity of the former prefcription, by which means the was again relieved, dropped afleep, and, when the awaked in the evening, was quite free from the pain, griping, and ftraining, though fill very weak :nd feeble. To obviate this complaint, I directed her to take every now and then fome burnt red-wine, with nutmeg and toaft, and in the interval fome chicken-broth. She continued eafy the night following: when I called next day, fhe told me the had fome flight pains; and I frund the child's head lower in the pelvis. 'The pains increafed, and in two hours affir I arrived the child was delivered.
troduced my hand into the vagina, pafed up by the placenta inta the uterus, broke the membranes, and delivered the child by the feet, by which means I prevented the placenta from coming down firit. The child was alive, becaufe part of the placenta adhered to the lower fide of the uterus. I have had cafes wherc the placenta has come down into the vagina before the child's head, and was obliged to deliver it frrt, but in fuch cafes the ch:Id was commonly dead. It appears in your cafe, that the os internum had been fully open, that the placenta filled all the upper part of the pelvis; and that the child being fmall, and the placenta detacined, they all llipped along with eafe, and were fo fuddenly delivered.

## $C A S E V I I$.

IWAS called by Mr. Burnet to a woman in the latter end of the eighth month, who, the preceding night, had been taken with a large hæmorrhage of the uterus, and had, every now and then, fome fight painsp Feeling the os uteri a little open, and the placenta prcfenting, I advifed him to dilate gently through every pain; and as foon as he could reach theedge of the placenta, to break the mernbranes. This he effected in a few pains: the waters were no fooner difcharged, than the flooding ceafed, and the pains growing ftronger, pufhed down the child's head, which gradually dilated the os uteri. But as it paffed, the detached part of the placenta was forced down with it, and actually tore from the relt fifteen or twenty minutes before the child was delivered. We now expected the child would be loft from this laceration; but, coitrary to our expectation, it was alive, and did well ; the mother alfo recovered, though the had lolt a great deal of blood, and had fainting fits before I was called.

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C A S E \quad I X .
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## Communicated by Mr. $\mathcal{F}$ ——, at $F$-.

BEING callcd to a woman who had gone her full time, and had, for three or four days, been troubled with a flooding, which then increafed, I immediately took ten ounces of blood from her arm, and prefribed an opiate that laid her quiet about three hours, during which the flooding abated. But when the awoke and began to ftir, it returned, though not to $f$, violent a degree. In the afternoon I was allowed to examine, and found the os internum very thin, dilated to the breadth of a fixpence: but as the flooding feemed to increafe towards night, 1 ordered eloths, dipped in cold oxycrate, to be laid over the abdomen: this application being twice repeated, the flooding entirely ceafed, labour-pains came on, in lefs than an hour the w..s delivered of a live female child, and buth did well.

## $N U M B . \quad I V . \quad C A S E I$ and IT.

## FROM LOOSENESS.

SOME years fince, bilious colics, attended with vomiting and lnofenefs? being epidemical, I was called to feveral women labouring under the fe complaints at different times of pregnancy; and they were generally removed by wafhing the ftomach and inteftines with warm water, and afterwards prefcribing opiates. One cafe, however, was more obilinate. I was called to a woman who had been exhaufted and weakened by eracu-
which time, however, he was twice called in the night, found her in continual convulions, and no alterations in the parts. About noon ncxt day he vifited and found her convulfed without intermiffion, though the force of the fits had not dilated the os uteri in the leaft ; neither could her mouth be opened fo ds to receive any medicire. At feven in the evening he was called in a great hurry, when the midwife told him, that now the child's head was in the paffage. He could fcarce believe this information, which, however, he found literally true, and fent for his forceps to aflift in delivery; but juft as he was about to apply them, the head was forced down by the convulfions; he then delivered the body, and afterwards extracted the placenta; and the convulfions immediately abated.

## $N \cup M B: V I . C A \& E I:$ and $I T$.

## FROM FEVERSj

DURING the time of a pleuritic fever that was epidemical, and often proved mortal if the patient was not plentifully bled at the firf attack, I was called to a gentlewoman in the feventh month of her pregnancy, who had bore feveral children. She was fuddenly feized with violent flitches in her right fide; and a grcat difficulty in breathing; for which fhe immediately inft ten ounces of blood. From other patients, attacked with the fame difeafe, I had taken twenty onnces; and, by repeating this evacuation once or twice, had frequently carried off the inflammation and fever; while thofe who were bled too fparingly, or too late, fuink under the difeafe : but I did not venture to bleed this patient to fuch a quantity on account of her condition. Neverthelefs, as the fynuptoms were alle~ viated, though not removed, by the firf venæfection, I followëd Synderiham's method in prefcribing plenty of diluents, and next morning repeated the bleeding to the fame quantity. Upon my firlt arrival, I had fent for an eminert phyfician, who lived at fome diffance, and he approved of what I had done; advifing, that as it would be hazardous to take a large quantity at once from a perfon in her condition, fhe might be bled the oftener; and this method being followed, in two or three days relieved all her complairts, having preverted a fuppuration; perhaps a mortificztion, of the pleura. Though much exhaufted by thefe evacuations, fhe gradually recovered ftrength to proceed irr her pregnancy; and in a fortnight after her recovcry, was fafely, thuugh prematurely, delivcred of a weak child, which did not long furvive the birth.

I was again cafled to a woman in the ninch m?nth of her fourth pregnbncy, who was feized with a violent ferer, in confequence of having caught cold. She complained of a racking head-ach; was between whiles delirious, and on the fifth day of the fever, when I was called, fell into labour. I felt her pulfe, which was quick, low, and intermitcing: fhe laboured under a jubbiutus tondinume, and was in a little time delivered of a very weak child, that foon died : her delivery was attended with incontiderable difcharges, and fhe expired that fame evening.
I have attended in many cales, at different periods of pregnancy, in the beginning, increafe height, and declenfion of fevers; and the paticnt commonly recovered, if mifcarriage of delivery happened at the beginning or decienfion, provided the difcharges were not extraordinaiy: bur when the fever was violent and at the height, the patient ufually died? and the child was frequently dead when delivered in the decline of the fever.

## NUMB. VII. $C A S E$ Io and II. <br> FROMTHESMALL-POX.

THE obfervations I hive made on:fevers will alfo hold good in the fmall-pox, - I deliveted a gentlewoman who had the confluent fmallpox in the fifth month of her pregnancy; from which the recovered, and proceeded to the full tims. No marks of the diftemper appeared upon the shild, which had not been dead many days before delivcry ; but the head was dropfical, and could not be protruded by the pains until the water was difcharged by perforation.

Mr. Cook, who attended me fome time ago, communicated the following cafe, an account of which he received from the country:-A gentlewoman at Ofweftry, in Shropfhire, aged twenty eight, was", in the feventh month of pregnancy, on the $24^{\text {th }}$ day of February; feized with the fymptoms of the fmall-pox; and on the 2 sth the eruption appeared very quick and fmall. A phyfician from Shréwibary being called, found them of the confluent kinid, with petechial fpots, and preferibed decoct. cort. Peruv. cum elix. vitriol." ©s tinct. rofar. pro potu communi. She recovered of this diforder, and was, on the 2 gth of April following, delivered of a dead child, upon whofe body the eruptions appeared to have been about the crifis.

C O L.LE C T O N. XIX:

Of.circimuolutions and knots of the funis iumbilicalis, contractions of the itterus before the floulders, $\mathcal{B}^{c}$ :

$N U M B . \quad$. $\quad C A S E \quad I$. and $I I$.<br>O.F:CIRCUMVOLUTIONS. [Vide Tab. ix.]

IWAS called to a gentlewoman in the eightii month of her pregnincy; by Mrs. Canon, who told me the labour had been very tedious: the head had been advanced to the os externum for near twe hoưrs, but was dratwn up again after every pain. The patient being averle to my exanination, I adviled the midwife to introduce a finger or two in the rectum durring aytrong pain, when the head was low down, and preffing againft the forehead at the root of the nofe, kecp the head in that pofition for a few pains. By this method the patient was fuon delivered of a dead child, round whofe neck the funus was four times cireumvoluted.

I was called to anotlier gentlewoman in labour of her firlt child, whofe os uteri dilated with the membranes and waters in a flow and gradual maner, until it was fully opened, when the membranes protruding to the os externum, were broken; then the head came down to the middle of the pelvis, and being puthed farther in time of a frong pun, it was drawn bask to the fame place as the pain abated, anil continued to advance and retreat in this manner for Ceveral hours, fo that the pationt was very much fatigued, and her friends hegan to be very unealy.

That I might examine more narrowly; I hegan to dilate and open gently the os externum durng cvery pain, until I could eafily introduce my fingers all round the lower part of the child's heald, fo as to perceive that the delivery was not retarded by the lar $r_{j}$ encifs of the head, or the fmallnefs of the pelvis; neither could it be deliyyd by the contraction of the uterus
hefore the fhoulders, beeaufe the head began to be drawn upwards, inmediately after the meinbranes broke; and the contraction feldom happens until all the waters are difcharged. From thefe eireumftances, I coneluded that the diffieulty proceeded from the circumvolutions of the funis umbilicalis round the neek of the child. The left ear of the foetus was to the left groin of the woman, and its right ear to her right fide, betwixt the facrum and the ifehium, the forehead being to the left.

I refolved to affitt in bringing the head lower, and keeping it fo with the help of the forceps, had it continued much longer in that fituation; but as the had every now and then a ftrong pain, I firft tried what might be effected by different pofitions, and directed her to bear the pains ftanding, fitting, kneeling, lying on one fide, or refting on the bed in a polture between fitting and lying. I'his laft was the moft fuccefsful, and in three or four ftrong pains, the head, though ftill retracted, advanced lower and lower, and began to dilate the os externnm. But obferving that it made another ftop, I introduced two fingers into the rectum, when it was pufhed down by a ftrong pain, and prefing them againf the lower part of the forehead, kept it down, and prevented the head from returning until the return of the next pain. I continued this method, in confequence of which, the head advanced farther and farther, and affifted the delivery of it, by raifing the forehead upward, with an half-round turn from the lower part of the os externum. The woman was foon delivered, and the funis was found three times round the neek, and once round the arms of the child.

The hint of affifting in this manner, 1 found in Mr. Oald's Treatife, publifhed in the year 1742 ; and I have frequently followed it with fuceefs, when the forehead was come down to the os eoceygis; but when it advances ftill lower, I withdraw my fingers from the rectum, in order to prevent a contufion of that part, as well as of the vagina, and prefs with my fingers on the exterual parts, and on each fide of the coccyx. Care, however, mult be taken to avoid the eyes in this preffure, otherwife they will be afterwards inflamed.

I muft obferve, that this affiftance is not to be ufed, exeept when the head comes low down, without continuing to ftretch the os externum; for although it retracted after every pain, yet if, by advancing a little in the time of a pain, it dilates this part, fuch gradual dilatation is much more fafe for the woman than a fudden diftention, by which the parts are in danger of being inflamed or lacerated.

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C A S E \quad I I I \text { and } I V .
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IHAVE in this manner affifted in a few eafes where delivery was retarded by the fhortnefs of the funis ; paticularly in one paiient who was delivered by the forceps; and in another who was delivered by the labourpains, affitted in the manner deferibed above. In this laft eafe the funis was not above two hand-breadths long, though very thick.

Mauriceatu, in p. 336, and obferv. 406, relates an inflance of his having delivered a woman of her firft ehild, whofe navel-Atring was extremely fhort, and as thick as its arm. The child had been dead feveral days before delivery.

It may be proper to ubferve, that when labour is retarded by the fhortnefs or circumbolution of the funis, the retraction or drawing back of the head does not begin to be perceived until it is luw in the pelvis; whereas
it is fooner obfervable when owing to the contration of the uterus before the fhoulders. The head is allo Low down hefore it can be retarded by one of the thoulders relling above the os pulis or facrum, inftead of being towards the fides at the brim of the pelvis.

## $N \cup M B . \quad$ II. $C A S E S$ 1. II. and ILI. OF KNOTS. [Vide tab. xxix.]

MY attendance was befpoke to a woman, who inagined herfelf in labour about the end of the eighth month. This, however, was no other than a colicky pain, proceeding from coftivenefs, of which the was relieved by a clyiter. -In a fortnight after this vifit, I was called, and found the membranes had broken; the waters :were of a brownifh colour and mortified fmell : the labour was lingering, and the child, when delivered, of a livid hue; the foarf-fkin was eafly fripped off, the abdomen tumified, and the funis fwelled and livid, about ien hand-breadths long, with a tight-drawn knot on the middle.

I attended another patient in a lingering labour, and delivered her of a live child, though there was a loofe knot on the funis, which was very long.

I affited in another cafe, where the funis, being mine hand-breadths long, had a loofe knot on it, and was twitted round the neck of the child, which was dead; though I believe its death did not proceed from the knot, or circumvolution, which was very loofe, but from the na:ure of the labour, which was very lingering, the head being fqueezed to a great length, and the brain too long conpreffed in a narrow pelvis.

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N & U & M & B . & I H I . & C & A & S & E & I .
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## Of contractions of the uterus befowe the fioulders, and thefy laft refing above the pubes or Jitcrum. [Vide tab. xiv.]

BY the following cafe; I difcovered that labours are often rendered te. dious and lingering by the lower part of the uterus contracting before the fhoulders, when the membranes break and the waters are too foun evacuated : this contraction not only keeps up the body of the child, but fometimes prevents the fhouldcrs from tarning to the upper part of the pubss to the fide of the pelvis where it is widelt. I was called by a midwife to a woman thirty-five years of age, in labour of her frit child, the membranes having been broken a long time. I found the head prefented almoft as low as the middle of the pelvis, and that the os internum was fully open, and the pains firong and frequent, yet the head did not advance, but receded a little after every pain, a circumftance which at firt I imputed to the funis.

Finding the woman very uneafy, and her friends importunate, I amufed them with a palatable mixture, of which I directed the patient to take two fpoonfuls every half-hour, my intention being to gain time; for I feit the child's ear at the upper part of the pubes, the head was fmall and very little engaged in the pelvis, and 1 could forefce nothing dangerous in the cafe. I accordingly took my leave, after having affured them the was in a fair way, and would in a litele time he fafcly delivered by the inidwife. In about two hours, I reecived another call, and was told the medicine had done her no ferviee. I likewife undertond from the inidwife, that the chilu's head was very little advanced, and that he had kept her in an eafy pofition,
accoadinir found the liead lower dowin, but is the pain abated, it was drawn back to its former flace: upon which I turned her upon her fide, in order to bring down the lead with the forceps, but firft refolved to try what could be done by dilating tle parts. Accordingly, placing her brecch to the bed fide, I gradually ofened the ofexternum during every pain, introduced my hand up the rayina, and.with great dificulty raifed the head above the brim of the pelvis. In ufhing up my hand, on the pofterior part between the os uteri and head, I felt the lower part of the "omb ftrongly contracted round the child's neck; then, by continuing to pum up farther, I raifed the child, and gradually ftretched the contracled part; fo that when I withdrew my hand, a ftrong pain, immediately followed, and forced down the head to the lower part of the pelvis; and in a few fubfequent pains the child was delivered.

Although the child is not large, nor the pelvis fmall, labour is frequently retarded by fuch contactions, when the membranes are broken too foon: fo that peactitioners thould avoid breaking them until the mouth of the womb is fully opened, that the head, by dcfcending immediately into the pelvis, may plug it up, and prevent the waters from being too foon diff charged. Except, however, in cales of flooding, where the lefs difficulty. or danger muft yield to the greaicr, and the membranes be broken in order to ftay the hrmorrhage.

By thofe contractions, the child's head is feldom kept up fo long as in in the cafe defcribed above, but is gradually pufhed lower down; and the the labour is more or lefs lingering, according to the degree of contraction, and the frengits ou weaknefs of the pains. In a word, there is feldom.occafion to affift until the pains fail, as we fhall obferve in the laborious cales."

## C O L L E T I O N XX.

Of lingering cafes from the-large fize of the child, and the hydrocephalus.

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N U M \text { B̧. I. } C A S E I .
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.FROM THE LARGE SIZE OF THIE CIILD. [Vide Tab, xxi, xxvii. and xxviii.]

IWAS called to a woman, whofe friends told me the had been three days in labour, and that the nidwife, who had lott her opportunity, was keeping her in hand. She, however, in her own vindication, gave $m c$ to undertand that the had delivered ihe fatient twice before; that the finf labour was lingering, and the child, which was firall; canse before the time; that the fecond was alfo tedious, and the child, which was large, ftill-born, becaufe they had fent for leer.when it was too late to fave it by. making nore room: that, in order to ohviate the like misfortune upon this occafion, fhe had been, called in good time, and confiderably dilated, the farts; but when the waters were difcharged, the pains had not been, ftrong enough to deliver the child. Slac lihewife atfirmed, that when 170 was called, the was no orening of the os internum, which did wot begin. till the preceding night; but that the woman laboured under a colic, ittended with a loofencfs, which had been fopyed by fomething prefcribe ds
by the apothecary, upon which the pains grew ftronger ; and that fle, the midwife, had loft no time, but tried all the different pofitions, and dilated the parts during every iain. Indeed, the loofenefs had exhaufted the patient; and the was moreover fatigued by this unkilful management of the midwife, wha was cxtre aly ignorant, had never received the leaft inftrution, and feemed incapable of profiting by her miltakes in practice.

When I firt examined, I found the mouth of the womb pretty largelys opened, but thick and fwelled; the external parts were likewife tumitied and inflamed. I afterwards, during another pain, felt the head prefenting, though very high up, Her pulfe being low and quick, I directed the at-: tendants to put her to bed, and keep her as quiet as poffible. As the was, troub.ed with a great drought I defired her to drink balley-water, and take now and then a little weak broth, with toafted bread; and lafly, in order to amufe herfelf and friends, I prefcribed a draught of fy rup and fimple waters to be repeated every two hours. Then exhorting her to difregard the trifting pains the hat, I affured her they would grow itronger, and affitt the delivery. with better effect, after the fhould have enjoyed a refrefhing fleep, Having given thefe directions, I took my leave about, eight in the inorning. anct returning in the evening, was informed that the had flept very found for five or fix hours, fweated plentifully, and undergone cuery now and then a fmart pain.

Finding the parts mueh fofter, the heat abated, and the pains gradually pufning down the head of the child into the pelvis, I encouraged the patient, telling her the was now in a good way, though, in comfequence of her'weaknefs, her delivery would require fome time, and therefore the ought to exert her patience, 1 likewife privately directed the midwife to let her reft in bed, and fleep as unuch as poffible, without fatiguing her by a repetition of her former conduct. But notwithlanding this exprefs admonition, when I was called early next morning, I underfood the had aEfed diametrically oppofite to my advice, by raifing her uut of bed, andharrafing her in the minner already defcribed, fo that the was quite funks and. difpirited, and the external parts were inflamed and fwelled as before. She was immediately replaced in bed, and a pultice of bread and milk heing applied to the parts, I waited to fee the event. She flept and fweated a good deal, and when waked with a pain, took fome broth, warm wine and water, and eaudle alternately, fo as to be mueh recruited and refrefhed; the inflammation alfo abated ; upon which the pultice was removed, and the part cleaned ; and the pains growing ftronger, the was delivered abour noon, of a dead child, whofe head was fqueczed to a great. length.

I afterwards delivered this woman thrce times, and the ehildren were all uncommonly large; but by giving her time, and keeping up her ftrength, the was fafely brought to bed, and they were all alive.

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C^{\cdot} A S B \quad I I \text { and } I I I .
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BEING ealled, in the evening, to a patient by the midwife, who told me the woman had been long in li hour of licr firf child, that the os uteri had gradually and flowly opened, that the waters had been difcharged a great many hours, and that the child's head did not advance. I found, yon examination, the head was come down to the middle of the pelvis; and the woman being frong, with a quick, full, hard pulfe, was bled to the
the quantity of ten ounccs. She was kept quiet in bed, and fept between the pains, every fccond or third of which was pretty frong. I defired the midwife to indulge her with all poffible reft, and fend to me if fhe fhould turn weaker, and could not be delivered by the pains.

Accordingly, I was called next morning, when I found the child's head advanced to the lower part of the pelvis; but the patient bcing exhaufted, and her pains growing weaker, I refolved to deliver by turning the child, or if that fhould not be practicable, to affift with the fillet or crotchet. (I then did not know the method of delivering with the forceps.) After having gradually opened the os externum with my fingers, I tried to raife the head, and introduce my hand into the uterus, fo as to reach the feet: but the contraction was fo great, that I could not advance farther than the upper part of the yagina: upon which I determined to ufe the fillet; when a ftrong pain coming on, as I withdrew my hand, the head defcended lower, and in two more pains the woman was delivercd of a child, whofe head was fqueezed to a great length. By this method I have feveral times fucceeded in fuch cafes.

Some time after, I was called to another woman, who had been long in labour of her third child. When I firt examined, I thought I felt the breech of the child; but afterwards found it was a large tumour on the child's head, which was pretty low in the pelvis. The pa ient had been much fatigued by the imprudent management of the midwife; the pains had turned weak, and her pulfe was low. I directed her to be put to bed, to take fomething warm, and try to doze between the pains. By this method her exhaufted fipirits were recruited, and her pains grew ftronger; I affifted as in the preceding cafe, and fhe was delivered of a dead child, with 2 large head fqueezed to a great length.

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C A B \quad E \quad I V . V, \text { and } V I .
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IW AS called to a patient whom I had delivcred twice before: in her firt labour I ufed the crotchet, in the fccond I tried the fillet, but without fuccefs; upon which I brought the child by the feet, though I could not fave it, becaufe the head was vcry large.

Having found by experience that feveral children were loft by ufing thefe expedients prematurely, and by turning the child when a large head prefented in a narrow pelvis, I refolved to manage this cafe in a more cautious manncr, and defired that I might be called in time,

Accordingly, when I arrived, the midwife told me, that the patient had not been fatigued, and only once examined; the mouth of the womb was largely opened; and the gentlewoman being of a weakly conftitution, I kept her chiefly in bed. The waters broke foon after niy arrival; the labour was very tedious from the largenefs of the head, which advanced very flowly in the pelvis; but by encouraging and keeping up her ftrength, the was at laft fafcly delivered.

In the fame year, Iattended another patient who had been long in labour, and whofe waters were difcharged many hours beforc I arrived. I tound the mouth of the womb largely opened, the child's head advanced to the middle of the.pelvis, the paticnt very much fatigucd, and the midwife told me her pains had been ftrong, hut were much abated. As I could not turn the child, I made a noofe on a garter, which I with great difficulty fixed over the fore and hindhead, and pulled gently during evcry pain; but, not fuccceding, I increafed the force until the noofeflipped off. Then
refolving
refolving to try what nature would do, I preferibed a gente opiate; and the being kept quiet in bed, enjoyed between the pains fome refrething numbers, by which her ftrength was gradually recruited, and the paius growing ftronger, fhe was in about two hours fafely delivered. The fillet had galled and inflamed the hairy fcalp of the child, which, however, in confeyuence of proper applications, recovered in a fcu days.

In the year following, I attended a gentlewoman in the city, in labour of her firlt child. She was young, ftrong; and healthy'; liad gone a month beyond the common time of reckoning, and the cafe was very tedious; for after the membranes had broken, and the child's head advanced a little in the pelvis, the underwent many fevere pains for the face of four hou's, before it defcended to the lower part, where it continued two hours longer before the was delivered.

I perceived that the greateit difficulty proceeded from the large fize of the head; and the being trong and the pains brifk, I thought nothing fhould be done bat to encourage and prevent her from being fatigued. However, before the was delivered, her firitits and pains began to flag, and her friends became very anxious and uneafy; indeed I myfelf was not without apprehenfion that both fhe and the child would be lott.

Though the pains were molt effectual while fhe continued in bed betwixt a fitting and lying pofture, when they began to grow weak, I refolved, as the head was low down, to affilt with the forceps: but before I ufed that expedient, I thought proper to alter the pofition, and try what would be the effect of her taking fome pains flanding, a pofture which had fucceeded in other cafes. She was accordingly taken out of bed, and fome loofe clothes being put on, fupported between two women. Her pains increafed in confequence of this alteration; and after fhe had undergone feveral fevere oncs, I found the child's head began to move lower and lower, and protrude the parts, in form of a large turnour. Then the was put to bed again, and with great difficulty I faved the perinæum from being toren. After the head was delivered, it required great force to bring along the thoulders : indeed this was the largeit child 1 ever brought into the world alive.

The head was fqueezed to a great length, had a large tumour at the ver--, tex, and if the mother's pelvis had not been very large, the child could not $p$ ofibly have been faved.

## $C A S E$ VII.

MY affifance was required to a patient about the age of forty, in labour of her firtl child ; though I was not permitted to examine, but obliged to wait in another apartment, in cafe of accidents. By the midwife's information from time to tine, I undertood the child advanced very nowly after the os uieri was largely opened, and the nrembranes had broken; and that the pains, though feldom, were pretty ftrong.

In this manner labour proceeded for the fpace of twelve hours, at the expiration of which, the midwife told me, that althrught fhe had at firt found the child was alive by moving its head, the was alraid it was now dead, for the pains had flagged for a long time, and a fmall part of the had had been for two hours without the external parts. However, the child was deliverd foon after the gave me this account, and appered to have becn but a very litule time dead; and, in all probabiitity, when the head was
fo low, and the pains abrited, it might have been faved by the anfifance of the forceps, which fe!dam or never fail when things are in that fituation.

I afterwards learined, that the Thynefs of the patient proceeded from thè̀ artiul in'finuations of the midwife, who terrified her with dreadful accounts of the ufe of inftruments.

## $N \cup M B, \quad I_{1}, \quad \ddot{C} A S E \quad \dot{I}$. and II:

## FROMTHEHYDROCEPHALUS.

ATTENBING a grentectioman in labour of her fourth child, I felt the membranes pafied down, and the os internum and os externumlargely opened. Before the membranes broke, the child's head continued a long time high up at the brim of the pelvis; and felt in fuch an uncommon manner, that I was for fo:ne time uncertain whether it was the head or breech. But the waters being difcharged, it was puifhed a little lower down; then I felt the hairy fcalp, and perceived that the head was dropfical, from the loofene? of the bones, and the great diftance between? them. -After many fevere pains, the fcalp was procruded to the ofs externum, whịh the contained water diftended to fuch a degree, that the head paffed, and the child, which was prefently delivered, feemed to have been dead but a very little time.

I was called to another patient in labour of her firtt child. The mem:branes and waters opened the os uteri in a very flow manner; and when? they came down to the middle of the vagina, felt as if there had been one fet of membranes within another, though the internal fecmed to be much thicker than thee external. But before the os uteri was fully opened, the real membranes broke, and then I difcovered the other was the hairy fcalp; pufhed down by water contained in the fkull: This the pains forced down lower and lower; fo that the os internum being fully opened, it ftretched the vagina and os externum in the fame manner as they are commonly di= lated by the membranes and waters of the fecundines; and 1 felt the bones of the fkull loofe, and riding ore upon-another.

At length the head boing delivered, I was obliged to exert a good deal of foree in bringing along the fhoulders and body, becaufe the belly was fwelled. . -'The funis was tumified and livid; the child feemed to have been' dead for the fpace of eight or ten days; and there was a large quantity of water contained in its head.-

## C O L L E C T I O NXXI.

Of lingering cafes, from a finall, narrow, or diftorted pelvis,

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N U M B . \quad I . \quad C A S E \quad I_{0}
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$A^{1 T}$THOUGH thefe labours may feem to he of the fame chafs, and sequirc the fame management with thofe that precced from a large ${ }^{\text {e }}$ head, there is an efiential differcnce; for though they are much the fane with regard to the efforts of the woman, the operation in thefe has much lefs room whien he is obliged to affif with his hand, and the child's head is disfigured and comprefied into large indentations, occafioned by .the jutting in of the "pper part of the facrum and vertebre of the loins.

- I was berpoke to attend a woman of a middling fize, and to appenrance well m de, who had been three times before defivered of deat children. The firit prefented with the arn, and the midwife having kept her two days in hand, with promifes of fafe delivery, the fri:nds called a renilem in of the profefion, who, with great difficulty, extrazted the child by the feet, and was fo much fatigued whih the operation, that he ws obliged to keep his bed for feveral day's. In her next child I was employed, after the had been weakened and exhaulted by another midivife, who, with great felffufficiency, had undertaken to bring matters to a happy iffue.

Having waited a long time to no purpofe, I tried the forceps; and thefe failiny, dilated the cranium, according to the method deforibed in laborious births. Then I found the difficulty proceeded fron the large fize of the head, and the jutting in of the upper part of the facrum, which was not above three in thes and a half from the os pibis. In her third lahour, I atten.led hy myfelf; but the breech unluckily prefenting, and the child being very large, I could not polfibly fave it, for I was obliged to ufe the cured crotchet in delivering the head, to the great grief an. 1 mortification of the poor mother, who had fuffered fo much, and lof three children.

When I was called to her in labour of her fourth child, the moath of the wo.nb was ofen to about the breadth of a fhilling, and the child's head reted on the upper part of the pubes; but was thrown a little more forward than ufual, by the jutting in of the upper part of the facrum and the lat vertebra of the loins. Labnur being juit begun, I encouraged the patient, by telling her, that 1 had faved many children, even where the pelvis was narrower than her's; and that I w is no.v in great hopes of ficceeding, provided the child was not of an extraordinary fize. As fhe had nept but little the preceding night, and her pulfe was rather fuhi, I ordered ten ounces of bloo d to be taken fron her arm, and her inteftines to be emptied by a cly fter; and taking my leave in the morning, defired the nurfe would not fend for me until the membr nes fhould be broken. She was accordingly kept quier in bed, and erjoyed fome refrething fiep; and in the evening I received a meflaze: then the membranes were broken, the mouth of the womb heing largely opened, and the head beginning to be fqueezed in at the upper pirr of the pelvis; but when the incmbranes gave way, the pains abated, as is commonly the cafe when the head is not fmall or the pelvis large: for the pains the had hithertu undergone proceeded from the membranes ftretching the mouth of the womb; and now the he head being kept up, dil. not continue the diftention of thefe parts, but locked then up fo as to detain a quantity of waters ftill in the uterus.
I wont away again, defiring the nurfe to fend for me when the pains fhould return and grow ftronger; and in about thrce hours I returned, in confequence of anothcricall, when I underfood a great many cloths had been wetted, and that the pains were become ftronger and more frequent. I then felt the child's head fqueezed lower down; and but little water being difcharged in time of a pain, I concluded that the whole quantity was almoft cxpended, and that the uterus was clofe contracted to the body of the child.

As the paticnt had been chiefly in bed during the whole day, I diirented her to take her pain; in a fitting pofture, and now and then to walk about without fatiguing h॰rfelf. She therefore fat in an eafy ch ir, leaning backwards; and in this inanner took her pains, until towards morning, being very n:uch fatigued, the was again pur into bed, and laidon her back: her floulders being raied with pillows, fo as that her pofture was between fit-
ting and lying, I defired her, in time of a pain, to pull up her legs, while an afuftant fupported her fect, and directed her not to force down, except when the pain wa, itrong. The head contin.sed to advance very flowly, the bones of the cranium riding over one unother; the vertex was fqueezed down in a conical form to the lower part of the ifchium, the forehead being at the upper part of the right, or rather above the brim of the pelvis on that fide ; the fontanel was ftill very high up, and I felt the ear at the os pubis. At every third or fourth pain, which was genera ly the ftrongeit, the head advanced, and the occiput was gradually raifed to the fpace belon the pubes, the forehead turning backward to the lower part of the facrum and cocry.

The head being now fo low down, and difengaged from its confinement and preffure at the $u$ per part of the pelvis, proceeded much more eafily than before ; however, as the child was large, and might be lof in being detained too long by the contraction of the uterus before the moulders, I affited a little when the forehead was come down to the lowex part of the coccyx, by plang my fingers on each fide of it, in time of a ftrong pain, in order to prefs the head forward to the fpace bolow the pubes, and present its being drawn back upos the abatement or ceffation of the pain.

The head being delivered, I was fain to ufe a good deal of force in extracting the fhoulders; for although I had brought them down to the lower part of the ifchum, I could nut effect the delivery until I introduced a finger ahove one of them, up to the middle of the arm, and, by prefiring toward the facrum, brought it down with an half-round turn; upon which the body followed.

The circulation in the furis being ftopped, the child, which was very large, and whofe head was compreffed in a longitudinal form, lay five or fix minutes before it began to breathe.

The woman recovered of this much better than of her former labours:

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C A S B E \text { II. and III. }
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THREE years"after, I delivered the fame patient of another child, when the labour proceeded much in the fame manner ; with this difference, howcver, that the membranes were unluckily broken by her motion of getting out of bed before the had any pains. I being called in confequence of this accident, found the os uteri foft and yeilding, though very little open, and the child's head refting ahove the os pubis, as in the former cafe. She was bled, and receiicd a clyftcr, as in the preceding cafe ; but as the pains were not begun, and I was engaged at another labour, I left a midwife, with proper directions how to manage when the pains fhould come on, until 1 hould be at leifure to come and attend her.

Soon after I went away the pains began, and a large quantity of waters was from time to time difcharged. When I returncd in the evening, I found the os uteri pretty largely opened, and the head pufhed down to about one-third of the pelvis; and taing it for granted that the would have many more frong paius and that all the waters were not yer difcharged, I lay down in a bed to tace fome reft, becau le I had been nruch fatigued the night before, and defired the miciwifc to call me as foon as the head flould be come down to the lower part of the p.lvis. The patient bore nany feverc pains with extraudinary courage ; the child's head was in the fitation deferibed for about threc hours after 1 went to bed; and in half an hour after I rofe, the woman was fafely deilivered of a live child. Since
the publifhing of the above the has beentwice delivered in the fame cautious manner by Mrs. Maddocks, on my account; and the children were live-born and did wel!.

I attended another woman whofe pelvis was aifo diftorted, and rather fmaller and narrower than that defcribed in the prece sing cafe. She had, the year before, been long in labour, and much exhzufted, before fhe was delivered by another gen leman, who was obliged to open the chall's head.

Being called at the beginning of this fecond labour, I managed her much in the fame manner above defcribed, and with great difficulty faved the child, which was finall : but when I attended her again in her next lyingin, I could not fave the child; which though lar er than the former, wa not above the common fize. -Vide the crotchet cales.

## $C A S E I V$.

MY attendance was befpoke to a woman who had beemfour times delivered by anctiner gentleman of dead children; and it was alledged her pelvis was fo narrow and ill-formed, that the could not poffibly bear a live child.

I was averfe to interfere with any other practitioner ; and actually refured to undertake the care, until I was inporruned by twe of her acquaintance whom I had delivered, and affured that the other gent eman would never be employed again at any rate : upon thefe reprefentations I promifed to attend this patient, who was a-little woman of a delicate conititution fubject to icterical complaint: for which I advifed her to c nfult fo ne phyfician; though in this particular fhe neglected my advice, on the fuppofirion that her healih was mending.

Soon after my firlt vifit, I was called to her when the imagined herfelf in labour, and found the mouth of the womb but very litule open, tho igh foft and yielding. Her pain, feemed to price from her beins coltive; yet if felt the head refting above the pubes, and was agreeably furprifid to find the pelvis was not fo narrow as it had heen delcrized; for wirh the tip of my finger I could hardly reach the jutting forward of the laft verteb: a of the loins and upper part of the facrum ; from which ciscumitance, I underftood the pelvis, at th $t$ part, was not half or three quarters of an inch narrower than thofe that are well formed. I therefore hiped, that if the child was not large it might he faved, provided I could keep up the woman's ftrength. With this view, afier hav ny encouraged her, by co:nmunicating my opinion, I prefcribed a clufter ; after the operation of which fie took the following draught :- Ay cinnamom. fimp. $\bar{i}$ ifs. çum fpiritu 3 ij . Confeet. damocrat. $3^{\text {fs, }}$ S; r. e. mecnnio 3 ij . M.
It was now late ; and I being uncertain when librur would hegin, faid with her during the bett part of the night, but wert away as foon as the draught had thrown her into a profound fleep. She was free from pain all next day ; but $I$ was called the following inorning, wh:n I under.tood fhe had trifling pains in the night, thongh the had flepit in the intervals. I found the waters pufhing down the membranes, and the mouth of the womb epen to about the breadth of a crown; an! the being weary with lying, I add ifed her to rife and tahe her breakfats. Having at with her a'but two hours, during which the pains were hut flight and returned feld $\cdot \cdots$, and b-lieving they would not grnew much \#ronger until the month of the wo nb fhould he fully opened, the nembranes rolen, and the waters difcharged, I propofed to go and vifit fome orher fatients; and laid injunctions upon
the nurfe to puit the woman to bed, and fent for me as foon as matters fhould be thus ripened.

She feemed uncafy at my going, and afraid I would not return. She obferved, the had heen already two days in labour; th $t$ the other gentleman would not have waited folong, but have delivered her before this time, either by turning the child, or extraking it with inftruments: the nurfe, too, made reflections of the $f$ mee nature.

I faid very little regard to what they faid of my predeceffor, becaufe I could not pretend to judge of his practice, unlefs 1 had been pref $n t$, and known the particular circumflances: and nothing ean be more abfurd than to juftify or condemn upon the hearfay of ignorant people, who are always apt to run into extremes of praife or cenfure.

I therefore to.d her fhe had not been in real lahour till the night before ; that I would do eyery thing in my power for the fafety of herfelf and the child ; and begged, that if the was in the leaft diffident of my kill, the would fend for the perfon who formerly delivered her; for I would not attempt to foree matters, as there was really no danger, even if the labour fhould continue eight days longer: This declaration quieted the anxiety of the patient and nurfe; and I was permitted to go away, after 1 had pro-.. mifed to rcturn upon the firft notice, which was about eleven; but at two I was fent for in a great hurry. The nurfe had puther to bed ; and I, during a ftrong pain, felt the membranes pufhing down large and full through. the os externum. As the pain went off, and they were relaxed, 1 perceived: the head was at the lower part of the pelvis. I had fearcely time to put on a night-gown when another pain returned; and the woman was immediately. delivered of a fmall child.

From the eafinefs of the birth, and the round form of the head, which was not at all compreffed, I am inclined to believe, that though the child hadd been of an ordinary fize it would have been faved.

The patient recovered much better and fooner after this than after her. former deliveries; the jaundice ranifhed, and in two months fhe was. healthier and ftronger than fhe had been for many years.

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N U M B . \quad I I_{0} \quad C A S E \quad I . \text { and } I I .
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From inflammatory or cedematous fuellings of the pudonda, firrrbous tumours; po'ypus, or calofity in the ragina or os uteri.-Vide fect. iii. No.v.

AWOMAN in the latter end of her firf pregnancy, had œdematous fivellings in her legs, thighs, and pudenda; and being obliged to walk one day through the city, was very much fatigued, and in great pain. When I examined the parts, the fwelling, which before was wdematous, feemed to have coniracteci an inflammatory hue; the left leg and thigh were much mo etumified than thofe of the right fide, and the flin was fomething of a livid colour. Twelve ounces of blood wete immediately taken from her arm; The was put to bed, and in confequenee of fomentations, in three days the pain and inflammation abated: lut the fwelling of the pudenda Atill cortinuing, I preforibed an emollient eataplafinito be frequently renewed: and fr $m$ the firft day fle had taken two dofes of gentle cooling phyfic. On the fifith day the iv as taken in labour; and thoug the parts were tlill fwelled, and firetehed with great difliculty, She was at liaf fately delivered.

The pultice was till applied, the fwelling gradually fubfided, and fhe recovered tolerably well.

In the fame year, I was called by a midwife to a woman at Chelfea, who was in labour ; the labia pudendi weee fo cxcelively fuelled, that both p.ttient and miduife believed the chid couid not poubly pais ; and the tumefaition was attended with iteh pain, that for three days the had been obliged to kerp her bed, a nd lie on her back, without daring to aiter that polition. When I examined her during a pain, I found the os uteri very little open; and thence concluding labour was but juit begimning, I punctured the parts in ceveral places with a lancet, a large quantity of ferous fluid was difcharged, the fivelling fubfided, and the labour proceeded in a flow manuer, unail the was delivered.

Such cafes have ofteris occurred in my practice, and I never knew them attengler' $w$ ith any bad confequence; for "hen the fweiling is too great to permit the child to pafs, it is commonly reduced by punctures; or when of the inflammatory kind, by bleeding, cataplafms, and tomentation.

## $G \quad A \quad S \quad E \quad 1 H$. and IV.

AWOMAN, in labour of her firf child, was attended by a midwife. who inagined fhe felt the chulu's head, though very thatl, in the vagina: but examining again after a teiv pains, thie fiti that fubuance puilhed to one fide of the pelvis, and the membranes atad waters forcing down at the other; thefe leit groken and drichargei, the found fomething like another head come vown i.lfo. shie bung alarmed at this Atrange circumftance, recourfe was had to a genteman of tie profefion, who, being alfo puzzled, made a pretence to leave her, and diterwalds fent a meffage, deliring that another might be called, as lie wis indiffentany engaged. Bui before any affiltance could be procuied, the iw wan was delivered by the labour-pains of a middle-fizea ci.sla: and it was not tull fome months after that the fubllance wis found to te a fointous tumour or excrefence of the polyrus kind, adhering to the ontide of the os uteris. which was afterwards $t$ ken off by ligature:-In tome few ca.es, alter fevere labour, 1 have felt what I fuppoted to be hard cicauces, or cailofities at the os uteri, vagina, and us externum, by whoch the delivery was retarded.

My attendance was befpoke to a woman, who had recovered with great difficulty after a former tedious labour.

When I examined, the os uteri was upen to about the breadth of a crown. the membranes, with the waters, were pulhed hrongly down, and 1 felt uncommon hardnefles and ftr:ctures at the os ute.1, in the vagina, and at the lower part of the os externum.

The nurfe who formerly attended her, told $n \mathrm{e}$, that for fome days after her lait deliveny, litile flethy fubitances were now and then difchargea, of of a blackifh colour, and bad fruell; and that a long time elaplea vefore fhe recovered and was able to fit up.

The labour nuw proceedech wiy flowly, until the month of the womb Was fu.ly opence ; and rle netr.tianes breaking, the contractud v. gima was grauarlly fretcleed by the bead of the chilo; iom notwidht nuing the

 laf the child was delivered.
I managed this calc with great caution, becaufe, from the iajerset accounts of her former labours 1 fuppofes there had been a vioient mindima-
tion, and that the callous flrictures were the confeguence of a partial mortification, which had been feparated and caft off hy nature.

I kept her moltly in bed, and daring cvery itrong pain, preffed my fingers gaint the head, fo as to abate the force of the protrufion, and allow time fur the relaxation of the Itrictures, by which means the labour fuccecded beyond expectation.

## $N \cup M$ R. III. $C A S E I . H$. and III.

 OF THE DETENTION OF THE SHOULDERS AND BODY OF THE CHILD, AFTER THE HEAD IS DELIVERED.1WAS called to a patient in labour, after the chitd's head was delivered, as the midwife could not extra? the hodr, though the had pulled fome time with great force. I found the navel-hring furrounding the neck, and luckily hooked with my finger that part of it which was next the child's belly, it was fo loofe as to nip over the head: I undid two other circumvoIutions in the fame manner, and the child being difent?ngled, was immediately detyered. I have, in many other cafes, freed the child from the circumvolitions of the funis, in the fame manner; and was difpofed to belleve, that it was very feldom, if ever, neceffary to cut and tie this rope before tle delivery of the child, until my ofinion was altered by the two following inflances:

I was called in a great hurry to a woman, whofe delivery was retarded by the fame çufc deforibed in the foregoing cafe, and aried to difengago the child from the circumbolutions of the funis, though without effect. Then, without $r$ aiting to make a ligature in two places, as we are commonly directed todo, 1 infunated my fingers between one of the turns and the child's nock, fnipped the funis in two with my fciffars. and delivered the body of the child, which was dead. The face and neck were very much fwelled, and in this latt appeared a deep impreflion from the tightnefs of the circmmvolution.

Another cafe of the fame nature I was concerned in, and after having attempted, without fuccefs, to difengage the child, by turning the funis over the head with my finger, I made a ligature in two places, between which I finipped it afunder.'

The confequence of this operation, was the immediate delivery of a ftong lively child; another ligature was made near the abdomen, and the fuperfluity of the funis cut off.'

In a few cafes, I have found delivery retarded by the fhortnefs of the funis; hut the child was always fafely delivered, by turning the body along; the breech of the mother.

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C \text { A } S E \quad I V \text { and } V \text { : }
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IRFECETVED a fudden call to a gentlewoman in labour: the child's head had been delivered a long time, and the midwife had pulled with great force at intervals. But before 1 arrived, the patient was detivered of a dead child, whofe foulders were semarkably large. I have been called by midwives to many cales of this $k$.nd, in which the child was frequently lof.

I attended in another iabour that was rendered tedious by the large fize of the hody after the head was delivered. I atrempted to bing down the thoulders in the gentleft manner, according to the directions in my Treatife;
but found I coull not fucceed without ufing fuch force as woult over-Atrain the neck and deatroy the child; for the thoulders were fo high, that I could not reach with my fingers to the arm-pits. I then introduced the blunthook, but coull not lucceed, withost running the rifk of breaking the arm, or over-ltr ining the joint at the fhoulder; and as the' woman had ftrong pains, I refolved to wait their effect; whout ufing any violenc that might endanger the life of the child. Accordingly, in three pains, I brought the thoulder down to the os exterium; then zurning one of the arms into the hollow of the facrum, the body followed, and the chil. was born alive. From this, ani other cafes, I have learned to wait the effect of the labour-pains, rather than to ufe violence in pulling at the neck:

## $C A$ S $\quad$ VI.

Communicated in a letter from Mr. $A-$ —, at $E-$.

IHAVE had lately another melincholy cafe in midivifery. I was fent for to a woman, aged forty, who had boren fev ral children before. Whicn Ic, me, I found tire frontal and parietal bones feparate: from the ref, and without the vagina, the brain being evacuated. In pped up my fingers, and found the os tincæ contracted asout the neck of the chiid, and endeavoured to pull it away, but in vain. 1 then fent for MrD and $\mathrm{Mr} \mathrm{S}_{0}$ neither of whom could come. I next fent for M: L. wn came ; anll I defired him to fee what he could do, as iny ingers were nambet. He firit got one hand into the uterus, and then nlpped up the fingers of the other, and brought away the child. The wo nd.is puife befure delivery was frong, and the had little tloodins: but we had not been gone a quarer of an hour when we were fent for again. They told $u_{2}$, chat im neasately after we went away, which was abjut five minutes after delivery, the was feized with a thivering and vomiting, and had fiimed. We found her in a fwoon, and held fyrits to her note ; but the could not fwallow, and ded in about half an hour after delivery.

Quere. What was the caufe of her death? Was it owing to the lypothymia, occafioned by pain or lofs of blood, which indeed was not confiderable? Or might it not be owing to a ruprure of the internal orfice, which the vemiting feems to have indicated?

## The Anfwer.

I really think you have had your thare of bad and unfuccefffu! cafcs: but in all of them, efpecially the Lalt, you acted with prudence in lending for others of the profeflion.

In cafes where the head is delivered, and the fhoulders are fo large, or the lower part of the urerus is fo contiacted, that the body cannot be wrunght away by pulling with moferate torce; if the woma.'s pains have not entirely l-ft her, or the is not in a dying condition from lloodings or other fymptoms, the beft method is to waic lur the effect of the la jour-pains: for I have larely been concerned in the caie of a wak woman, where the bray of a live chitd was delivered halt an hour after the head was withour the os externum.

Now, as your patient was not weak, I think you might ha e wited and amufed her with medicines; or if the had turned neak, an anature feemed infuffictent. you mi, he have pulthel up your hand, at atier haviny fretched the contracted part, tried to delavea the chihat. If this method
had failed, recourfe might have heen had to the crotchet, as the child was already dead. This berng fixed upon the body, wou'd; by dilating the iherax or cofte; have diminifhed the buik, and brought down one fhoulder a great way before the other.

1 cannot pretend to afcertairi the caufe of the woman's death.
I have been coricerned in feveral cafes, where, though the os internum wwas tore, the patient has recovered without romiting or anv other had Fyptoms; and have known nther women die, as it were inftantaneoufly, aficr delivery, though I always imputed fuch fudden death to their being exhaufted by long lab sur, the fudden emptying of their vefiels, and a greater lofs of blood than their conftitution could bear.

## C O L LEC TION XXII.

Of childven fupp fed to be dead-born; of the head fqueezed into differcnt forms; of the funis not fifficiently tied, broke fhort, or feparated in a wrong place.

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N U \text { iI B. } I \text {. C A S E I. and II. }
$$

OF CHILDREN SUPDOSED TO BE DEAD-BORN.

IWAS called by a midwife, to a woman in labour in the feventh month, who, befure I arrived, had flonded a good doal, though the hemorrhage w st stopped. The patient was foon delivered of a etild, to sil appearance dead: and, after the midwife had tried the common mechods of rubbing the temples and breaft with brandy, whipping and holding onion to the mouth and nofe; it was laid by in a 'clofet. About five minutes were confumed in thefe experiments, and two or three minutes more, while I was preferibing fome medicines to recruit the weak patient, I heard a kind of whi upering noife in the clofet. No: knowing where the child was laid, I:fked if there was not a kitten contined in that f lace. The nurfe immediately ran into the elofet, and brought out the chuld, which was alive, and afterwards reared, though with great difficulty.

I attended another woman in labour, and the navel-ftring prefenting with the arm, I delivered the child by the feet. From the pulfation in the arteries of the funis, I knew it was alive : but I found great difficulty in delivering the head, and was obliged to re $t$ feveral times before I could effect it : Io that the puilfation ceafed, and the child fecmed to be dead, after all the common efforts were ufed for its recovery: Neverthelefs I inflated the lungs, by blowing into the mouth through a female catheter, and the child gavc one gafp; upon which I repeated the inflation at feveral intervals, umtil the child began to breathe; and it actually reeovered.

## $N$ U$: M B . \quad I I . C A S E S I$. and $I I$.

## OF THE CHILD'S HEAD SQUEEZED INTO DIFEERENT FORMS.

IATTENDED a woman who had before been fubject to lingering la bours, occaftoned by the fimall fize of her pelvis: at this time, howsver, the delivery was pretty quick, becaufe the child was fimall, and the bones of the craninm caffly yielded and rode one another. : But the head
being fqueczed to a great length from the face to the vertex, Tpreffed the palms of my hands againit both thefe parts, and with greateafe brought it to a better form.

In the crurfe of the fanee year, I attended another woman whotad a large and well-fhaped pelvis, and had formerly been favoured with very quick labours: but on this occation, the child being large, and the mother we.k, the delivery was tedious, and though the child's lead was compreffed into a longiudinal form, I eafily reduced it into the natural hape.

In all cafes where the head was thus fqueezed. I Fave been able to alter the form by a gentle preffure between my hands; unlefs it had been compreffed for many hours by being reained in the pelvis, and then I have found it impoflible to make an effeltu ! alterati n.

$$
N U M B . I I I_{0} \quad C A S E S I_{0} \text { II. and III. }
$$

## OF THE FUNIS NOT SUFFIGIENTLY TIED, TROKIN SHORT, OR SEPA RATED in a wrong place.

AWOMAN I delivercd, whofe cafe was preternatual. Though the navel tring was thicker than ufual, I thought I had tied it fufficient$1 y$; and the child feeing luid by the fire, contimed in that firuati $n$ a good While before it was defled, becaufe the aftention of myfelf and the atrendants was engroffed by the mother, who was extremely weak and low. After fhe was recovered and laid properly in bed, I went towards the chiid, and was very much furprifed to fee fo much blood lott, and to obferve it ftill flowing from the funis. I no foone. difcovered this, than I made another ligaturc on the outlide of the former; and, palling it rery tight, the difcharge leffened, though it did not entirely ceafe until I had mate $a$ third. The child, which fee ned to be healthy and fluris when firt born, was exhautted by this hemorihage, and continued weas ant ale for feveral days, until it was recovered by fucking the mother. Thic;s navilAtrings require very firm ligatures, and a good portion of them ougit to be left in the feparatioa.

Having delivered a woman whofe cafe was lahorious, I defired one of the affiftan:s to hold the child before the fuais was cut or tied, until I fhould move the woman a little farther into the bed, that the $\mathrm{m}_{\text {s it }}$ not run the rif. of catching cold. The alitant, who received it in a hurry and tre idation, fulled away fo fudlenly, as to reak the furis fhm fro $n$ the belly; whea the midwife, perceiving the child bieed excefively, touk h 11 of the part, and prefed it limmly between her fingers and thum!. I had juft room enough to make a ligature, and was obliged to take a ftitch with a needle, in order to fecure it from nip, ing.

After having delivered another patient of a fmall and we kly child, I tied and cut the navel fring, and put the child into the hands of a woman who pretended to great kill and experience, and had come thither to fuperintend my conduct. I no fooner laid hold of the tunis, than feeling the ligature upon it, I was convinced that I hal feparated the rope between it and the child's belly, wh.ch not a litle diturbed me, as I had to deal with a cenforious inatron. However, I recolleked myfelf in an inftant, and defired to fee the child, that I might know whether or not the navcl-fring had bled fufficiently, for by fuch a difcharge I had often prevented con. vulfions in children. I inmediately pereived the blood fpringing ou ${ }_{t}$ from the arteries with great furce, ans before I could make a proger liga ${ }^{\text {l }}$ -
ture, the child had lof three or four ounces; by which cracuation it continued feveral days in a very weak concition. Indeed, when the child is large, and the hiad has long heen comprefied in the pelvis, I have imagined, that by tyi $g$ the ligature flightly at firl, fo as to let the funis difcharge t oo or three fpoonfuls, convulions have been prevented; but this was a $f$ all child, that paffed eafity, and could not well hear fuch an evacuation. N verthelefs, my mifake turned to my advantage with the knowing lady', win was very leud i.a my praife for having found out fuch an effectual and extraordinary nethod of preventing convulfions in children.

## COLLECTION XXII.

## Of cofes in which the placenta was with diffoully deliwered.

## CASES I. IL. HI.

IW A S called to a woman in labour in the feventh month, who flooded v:o entely, and delivered her fafely of the child; but as the placenta did not follow, 1 introduced my hand, and felt fome parts of ic bart and fcirrhous, which I feparated with great difficulty. The flooding, wh.ch had ftopped, now returned; and the patient in a little time fell into -faireting fits, and ex, ired.

I was again called to deliver the placenta in a woman who had mifcarried $n$ the fixth month. Fiading it a cafe of the fame nature with that defribed above, I refolved to att with greater caution; and extracted tho paits only that fepar ted with eafe, leaving fuch as ftrongly adhered, to come away of theinfelves. I told the miduife my reafons for acting in this manner, and prognofticated that what remained would be expeiled in tho or three days, and pafs for common clots ot coagula. 'ihis ac: curdingly hapyened, without any bad confequences to the patient.

In the fame year, about feven in the elening, at the defire of a phyfician, I vifited a poor woman who had been delivered at eight in the morning; but, as the midwife had broken the funis in pulling, the placenta fill remained, to the great terror of the patient and her friends. Imesining ther a good deal of force would be required to extract it, I order: ed the woman to be laid fupine acrofs the bed, with her breech to the fide, and ler legs raifed up and fupported hy two affiftants. Then anointing my hand, and introducing it into the vagina, I gradually dilated the os int ternum ; but found the lower part of the uterus foftrongly contracted, that Iat firt defpaired of making farther progrefs; and the force I exerted was fo great, and my hand went up fo high, that I was apprehenfive of tearing the utcrus from the vaginat. Feeling the womb roll about, under the relaxed parietes of the abdomen, I prefled one hand on the outfice, to kcep it down and prevent its motion, while I proceeded flowly, pufhing up and Aretci,ng hy intervals, with my fingers in the form of a conc. By thefé ineans, I graduatly dilated the pasts, though I was obliged to change hands firial times, becaufe my fingers were cramped; and at length, with great diffeulty, I reached the fundus, where the placenta had been fo frongly con red. Having gained my poiat thus far, I eafily feparated and brought it gently along.

## C A S ES IV. V. VI.

IMMEDIATELY hfter delivery in a laborious cafe, I introduced my hand to bring down the placenta, and it paffed up, as I imagined, into the lower part of the nterus; pufhing up farther along the navel-ftring, iny fingers nipped into a contrated part, and the placenta felt as if it had been sontained in a feparatc cavity from the uterus. As 1 pufhed up, in order to dilate the contrated part, it rote up higher and higher, moving from fide to fide, under the relaxed parietes of the abdomen, until, by applying my other hand on the ontfide, I prefled down the fundus, and kept it fteady. Then I gradually dilated; and infinuating my hand into the part where the placenta wäs confined, I felt it lying loofe and detached from the fundus, leemingly retaincd by this coritration only; fo that it was eafily extracted From this, and feveral other eafes of the fame kind; I was difpofed to believe Dr. Simplon's theory concerning the contraction of the upper part of the neck of the uterus, until 1 found, in a great number of inftances, the whole lower part of the uterus contracted, as defcrihed in the third cafe.

After another delivery, I found the eagge of the placenta at the infate of the os uteri, and waited fome time to fee if it would come away of itfelf; but the midwife informing me that it had continued in the fame fituation for a confiderable time before 1 was called, and that the had tried the common methods of pulling at the funis, and directing the patient to bear down, I introduced my right-hand into thn vagina, as the woman lay on her left fide, and pufhing up along the iavel-ftrizg found the placenta ad hering to the back part of the uterus. Then grafping it with my whole hadind, I aticmped to feparate by fqueezing; this expedient failing, I attempted to part the upper edge with my fingers, but it adhered firm.ly at that part; and my hand being much confined, I withdrew it, and introduced the left with the back to the facrum. I now gradually feparated the lower edge of the placenta from the inf rior and polterior part of the uterus; and finding it adhere firmer as 1 reached farther up, I preffed my finger's with greater force againtt thefe parts, which felt callous, and by des recs difengaged them from the uterus. By this time, imagining I had feparated the whole placenta, I attempted to bring it along, by pulling at its lower part as well as at the funis; but thefe cfforts proving ineffectual, I puthed up again, and made atotal feparation; after which 1 brought it away in a xery ragged condition : but the woman complained of a good deal of pain, loft an uncommon quantity of blood, and continued weak for a long time. I have offen thought that thi. hurrying method was unneceflary, and productive of many complaints to the patient; for in many cafes that have fince occurred in my practice, the placenta, when the edge of it was found at the mouth of the womb, has come down of ittelf at leifure; the worran has loft lefs blood, and recovered better, than where foree hath been ufed to extraci it immediately.

Being called to a wonan who lad been delivered feveral hours, the midwife tuld me fhe had at firt tried gentle methods to bring down"the placenta, hut to no purpofe; and afterwards introducing her hand along the navel-ftring, could not find it.

I infinuated my hand as the lay on her left fide, a d found the placentacontained, as it were, in a diflinet cavity at tic upper part and left fide of the uterus; but as the patient moved from me, and could not be keps féady, and the uterus rolled about as I endeavoured to dilate the contracted
parts, I put her in the pofition defcribed in the third cafe, and extracted the placesta in the fame manner.

The appearance here was different from any I had formerlv felt ; there was a pretty lare ${ }^{5}$ frace for the hand in the uterus, and the placenta felt as if it had been contained in a feparate cavity on one fide, the entry of which would at firfl farce a! mit two or three of my fingere.

I underte od from the midwife, that the membranes lad broken before delivery ; that tlie woman was very big, and a large qu ntity of water had been difcharged. This fudden evacuation, in all probability, was the caufe of the womb contracting itfelf into fuch a casity around the plaw cent:

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C \text { A S E S 'VII. VIII. IX. }
$$

IN the fame vear, I was called to a wonan in labour, and finding her belly pendilous, I ordered lier to be laid on her back, with her fhoulders low, an ther breech raifed. 'I he child's lead being finall, fhe was foon delivered, and I defired the midwife to let the placenta come flowly away. Neverthelefs, as it was not immediasely expelled, and fhe was loth to lofe the credit of the operation, fhe fulled with fuch force as broke the funis clofe to the flacenta. and alterwards introduced her hand to feparate, though wishout fuccefs. I was then called from the next roem to her af.flance, and being i.fornied of the accident, took the opfortunity of the fatient teing hill in the proper pofition, to introduce my right hand into the ute us. to the fore-part of which I found the placenta achering; hut it was fo much forwards, th. t I could not feparate while fhe remained in that pofition; I therefore turned her on her left fide, fo that my hand could reach farther for ard, and effecied the feparation.

After having de:ivered a woman of a dead child, I found the placenta gradually defcended into the ragina, and imagining it was fully difengaged from the uterus, I hclped it along, by pulling gently at its underedge, and at the ravel-1tring. However, it was fotender, from being nortified, that fome fart of it was left behind; hut feeling the os uteri clofely coniracted, and the womb itfelf reduced to the fize of a fmall child's head, I thought it was pity to give the woman frefh pain by dilating the parts; and the fragments were difchurged in three days, without any othe inconvenience to the woman, than the bad colour and fmell of the lochia, which gave no uneafinefs or alarm, becaufe I had apprifed the nurfe of what would happen.

1 relivered the wife of a gentleman who had formerly attended my lectures. The placenta was expelled by the labour-pains, fo that I did nothing but help it through the os externum; bur the membranes were tore all round trom the edge of it, and cetained in the uterus, which was contracted as in the former cafe.

The gentleman agieed with re, that it was more prudent to let them come away of themelyes, than to run the rif of hurting and inflaming the womb; and liey were accordingly difct arged in four or fine days, without the leaft inconvenience to the fatient.-Vide Ruyfch, tom. iii. dec. 2. p. 30 .

And Mr. Portal, obferv. xij. relating to the os internum, toren by its being mifiaken for the piacenta.

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\begin{array}{ccccc}
C & -1 & S & E & X \\
\text { Communicated in a le tuer from } M r,
\end{array}
$$

ABOUT nine in the evening, he was fent for to a wonian who had been delivered of a live child that morning, but the placenta remained; and he found her in ftrong hylleric or convultion fits, which recurred almoit without intermifion. The placenta adhered fo firmly to the uterus, that with g reat difficulty he feparated fart of ic, and what came away, was brought off in fever 1 pieces, but the woman deed in a few minutes after the operation.

Thefe are only a few, from the many cafes of this kind in which I have been concerned.

When I lived in the countiy, I was feldom ealled to deliver women, except in laborious and preternatural c:fes; and then the woman was generally fo weak and fatizued, th .t 1 w s afraid of waiting, and therefore extracted the placenta foon after the chi'd was born; but if the patient was not ia danger, I co:nmonly left that office to the midwife, whofe method was to proceed with patienee and caution in bringing it away, by pulling gently at the funis, directing the patient to force down, or provoking her to puke, by tickling her throat with a father.

When I fettled in London, I found the practiee in this particnlar quité different; the women were always in a fight when the placenta was not iminediately delivered, when it was in the leaft lacerated, or when any fart of it and the membranes were retained. For this reafon, male practitione swere fo often ealled; and ther, from miftaken notions adupted from former writers, never failed to blame the midwives for having neglected fo long to deliver the placenta, obferving, that if they had been called at firft, before the uterus was contracted, they could have eafily preyented the bad confequences which were likely to enfue. Such infinuationa alarmed the women; and, in order to avoid thefe reproaches for the future, the midwives did not wait as formerly, but hurried off the placenta immediately after the child. But this practice did not anfwer their aim ; for if the placenta was toren, or any part of it, or the membranes retained, and the patient chanced to be deized with a fever, perhaps from a different caufe, fo as not to recover in the ufual way, it was always imputed to the fetention of thefe portions, and the midwife blamed accordingly.

I have been ofren amazed at the ridiculous and fupertitious obfervations of fractitioners with regard to the knots upon the funis, fcirrhous appearances, and the different hape or figure of the placenta, which was often kept nine days in water, and the circumftances of the woman's recovery predicted from its colcur.

I at firf f.vam with the fream of general pratice ; till finding, by repeated oblervation, that violence ought not to be done to nature, which flowly feparates and fqueezes down the placenta by the gradual contraction of the uterus; and having oceafion to pereeive, in feveral inftances, that the womb was as flrongly contracted inmediately after the delivery of the child, as I have found it feveral hours after delivery; I refolied to ehange mv mechod, and act with lefs precipitation, in extracting the placenta. What helped to determine me upon this oecafion, was a rafe in whieh the woman was fo weak, that I durlt not venture to feparate, though I waited three hours, without finding the plaeenta at the os uteri; neverthelefs, when the recovered a little, a few after-pains came on, and forced it cown to the vagina.

Soon after this nccurrence, in confulting Ruyfch about every thing he had writ concerning women, I found him exclaining againft the premature extraction of the placenta. His authority confirmed the opinion I had alfeady adopted, and induced me to choofe a more natural way of proceeding. Either before or after I have feparated the funis and given away the child, I introduce my finger into the vagisa, to feel if the placenta is at the ốs uiteri ; and if this be the cafe, I am fure it will comé down of itfelf át zny rate. I wait fome tinze, and conmonly in ten, fifteen, or twenty miHiutes, the womin begins to be feized with fome after-ptins, which gradually feparate and force it along. By pulling gently at the funis, it defcends ranto the vagina, then táking hold of it, I liring it through the ns externum. But if, after having waired a confiderable time, without feeling diny part of the placenta, or perceiving any natural efforts for its expulfion, $I$ provolie the woman to retch, and if this expedient is not attended with fuccels; I infinuate my hand gentl., and deliver the cake ; obferving always a medium between the two extremes of practicé, namely, that of déliverIrig too foon, and that of waiting too long for its expulfor. But it mult be oblerved; that in laborious or preternatural cales, when the women is in đảneri, I comin my affif fooner.

## COLLECTIONXXXV.

 is lowu in the peliris, and delivered zuith thé fillèt.

## $C \quad A \quad S \quad 1$.

IWAS in the morning called to a woman in her firft pregnancy, who had been long in labour, and very much fatigued by the officioutnefs of the midwife. I found the child's head at the lower part of the pelvis, Where. as the midwifc told ine, it had remained from eight o'clock the preEeding night, though the had tried all the different pofitions; and 1 underflobid the watert had been craining off for twenty-four hours.

Háving loit fome childien, in cafes of the fame narure, by turns ing, and others by being obliged to deliver with the crothet, after havning tried Mauriceau's fillet withou fuccefs, I formed a fillet into a noofe, and fixed it round the upper part of the head with my fingers, hoping to fucceed, becaufe I found the lead was frnall by moving my fígers eafly round it, Yet, before ever I attémpted this method, I prefuribett ten drops of li wid laudanum, by which fhe procured fone fleep. Her direngh being recruited, the pains returned, though weakly, and the head forced down a little by each, though it afterwards recoiled to its former fituation; a circumftance which I at firft imputell io circumvolutions of the funis, or the contraction of the os uteri' round the neck of we child. The os externum having been fufficiently opened loy the midwife, I tried to flide up the noofe mountécion rity fingers, along the fite of the head; and, after many unfuccefful efforts, at le igth fixed it : then 1 pulied gently with one fiand during every pain, white! prefed with the fingers of the other, at the oppofite fidé ; and thus fulling and moving from fide to fidé, 1 madé fhift to deliver, thowgh not without having ufed a great deal of force; and the hairy fealp was pretty much gallect, but not fo as to endanger the life of the child.

When I introduced the noofe, I was certified that the difficulty did not proceed from the contraction of the os uteri round the neck, by feeling the os tincos at the middle of the head; and when the child was delivered, she funis was not circumvoluted round the neck, fo that I could not find out the caufe that retarded the labour: I continued feveral years in this un: certainty, untill difcovered that, in many cafes, this obftruction proceidy from the concraction of the lower part of the uterus before the fhuulderse. or from the retention of thefe befure the pubes.

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C A S E S \quad \text { LI. and } I H .
$$

IWAS concerned in a cafe of the fame nature, and found the woman much weakened by frequent difcharges of blost. I delivered her, in the manner defori sed in the former cafe, of a child that had been dead for fome days; though I was obliged to exert greater force, becaufe the head was larger ; by which means the fcalp was more galled, and part of it torea from the cranium.

In another calc, I tried to ufe the fillet upon a child which was higher in the pe vis, but could not fix it until I puhed the head above the brim: then my han i having more roam, I accomplifhed my aim, and fucceeded better in this than in the former inflance: for the hairy fcalp was not fo much galled, becaule the woman had fronger pains to aftic the expulfion.

I tried in feveral other cafes, without fuccefs; and was obliged to deliver with the crotcher, becaufe the children were 1 rge. In the three cales I have related, the head being fmall, I atempted to turn ant bring the child by the feet ; but was preveited by the ftrong contraction of the ut rus: and I am now certain, that had I then known how to ufe the forceps, I could have delivered with gre teufe, not only in thefe, but in feveral other cafes where I failed with the fillet.

## C゙OL.LECTIONXXV.

Of laborious cafes when the head of the child is low in the pelvis. and delivered with the Jorceps.
[Vide Pars. i. Book iii. Chap. 2. Sect. 4. No. r. Tab. xyii. xviii. and xix.]

##  IROM WEAKNESSES AND ANXIETY OFMIND.

BEING called in the evening to one of the poor women who admitred my pupils, I found her in labour of her third or fourth child, and reduced to cxtreme weaknefs yy long fafing, as fhe had not been abie to go abroad feveral days to beg in the ftreets. 1 immediately. fupplizd her with fome cyudle, bread, and broth: but her flomach was fo weak, that it could retain but very little; for, though I defired fhe frould take it at firt by cupfuls, the was fo greedy of nourimment that the fwallowed too much at once. However, the was afterwards reitrained from duing herfelf an injury, and her fomach kept enough to recruit her ftength, in foine meafure. I found the os uteri largely open, and the membrances, broken, and the head at the upper part of the pelvis. I left one of the eldeft pupils to manage the labour, advifing him to perfilt in giving her nourimment, at proper times an I in farall quantity, and to let her lie montly in bed, that fhe might enjoy fone fleep and refieflument.

Indécd,

Indeed, when we frit arrivel, all of us were of opinion that the would expire; but in two hours her pulfe raifed, and her flren grt reeruited, though fhe was ftill weak, and her piins feldom recurred. Thus the continued all night, fleeping between the pains; and when I called in the rrorning, I found the chald's hat advanced lower in the pelvis. I could then diltin. guith with my finger, the ear .t the pubes; and by the fore part of it 【 difcovered that the forehead was to the left fide of the brim of the pelvis, and the occiput down at the lower part of the right ifchium. I likewife perceived that the head was not large, becaufe I could eafily introduce my finger all round the lower part of it ; and I felt the lambdoidal future croffing the ent of the fagital on the right, and the fontanel higher up on tho Ieft fide.

I left her again, after having defred the pupil to proceed in the fame cautious manner, hoping, that as the paticnt was much recruited, the pains would grow flronger, and deliver the child.

Being called in the evening, and undertanding that the pains were ftill weak, and the golips uneafy, I examined in time of a pain, and found the head was lower, with the left ear turned to the left groin of the mother, the vertex pufhed out, in the perinxum and parts adjacent, in form of a tumour, and nothing retarded the deliveiy but the weaknefs of the p.ins.

I waited an hour longer, encourdging the woman and her friends to exert their patience; but finding that after ihe had undergone feveral pains, the head did not adyance, and that I could eafily affift the labour, I placed her in the pofition chofen for lithotomy, and gently dilated the os externum with my fingers during every pain. When one was going off, 1 nipped up the fingers of my right hand to the os uteri, on the left fide of the va ${ }_{\mathrm{E}}$ ina, introduced one blade of the forceps between them and the head, turning the blade upivards towards the woonan's groin, over the child's ear, holding it in an imaginary line with the fcrobiculus cordis: then withdrawing my right hand, with which I took hold of the handle, I introduced the fingers of my left on the oppofite fide, but more backwards to the fpace betwixt the facrum and fichium, where the other car was fituated, within the os uteri; and preffing the head againt the blade that was introduced, fo as to keep it in its place, I with my right hand infinuated the otlier llade in the fame manner on the right fide of the vagina. Having fecured and locked them together, I waised for a pain, and then pulled gently; hy which means the head advanced flowly and gradually. 'I his oreration I repeated during every pain; the os externum was gradually ditated, the child's forehead, turned into the lower and back pari of the pelvis, and the vertex came out below the os pubis. By this time the tumour occafioned by the ditiention of the external parts was become much larger, the perinxum was extended ncar three inches, the fundament ftretched to two, and the parts betweeen this and the coccyx much enlarged. The occiput coming out from below the os pubis, fo as that I could, with my finger, feel the back pare of the child's neck, I food up, turned up the hinitles of the forceps, ant gently move, from blade to blade, while at the fame time I preffed the flat part of my hanl upon the perinæum, to prevent its being lacerated. Thus I continued pulling upwards, by intervals, until the head was fafely deiireed; then taking off the forceps, the body was eafily extraited.

White I was employed in tying the funis, fome of the pupili obferved, through the th: n covering, that the woman's abdomen was fill very big; and on examinining in the ragina, I felt the membranes and waters of another ehild, which I brought by the fect, after the patient had taken fome
wine and water, and recovered of the fatigue of the firt delivery. -I ufed the forceps in this cafe, as a pair of articicial hands, to allitt the delivery, beeaufe the pains were too we.k to expel the child:

## $C A S E \& \quad 1 I$. and $1 I I$.

Tİ E fame year, I and my pupils attended another woman, in lahöúr of her firlt child, who was reduced to a very weak and low condition by a tertian ague and extreme poverty. I was obliged to affitt with the foreeps, in the fame manner as in the foregoing eafe; but the he id was not fo foon delivered, becaufe the parts were more rigid. One of my female pupils firlt obferved that the abdomen was very large after delivëry; and I found there was a fecond child, which was likewife brought by the fect.

At another time, I was called to a woman who was taken in labour of her firtt ehild, and reduced to a very low thate by violent floodings, with which the was feized in the beginning of labour. According to the midwife's report, Ifound the mouth of the womb open and back ward, and the waters were not yet difcharged. As the patient loit blood very fatt, I introdaced a finger into the os internum, and brought it forward toward the pubes; and this irritation produced a pain which pufhed down the waters and membranes: thefe I tried to break; but not fueceeding, I with two fingers pulled forward the os uteri a fecond time; and another pain enfuing, I flipped the point of iny fciflars between them, and as the shild's head lay at a diffance, eafily fnipped the membranes. The waters were immediately difeharged in great quan:ity; and as the head eame lower and locked up the parts, the flooding diminifhed, and in a little time entirely ceafed. I then directed the woman to take a little broth frequently, and fome wine and water, or caudle, until the broth could be made, and defired the attendants to give her two fporonfuls of the following mixture every now and then, as a cordial :-Bx Aq. cinnamom. firmp. $\overline{\text { v }}$. Tinct, thebaic. gut. x. Syr. e meconio, zij. M.

Her pulfe being sery low; the prins cerfed for a confiderable time; but by degrees the recovered fron the extreme langour oceafioned by lofs of blood. As the difeharge was fopped, I exhorted the women to wait patiently for the efforts of nature; and ordered the midwifa to keep her quiet, and continue to adminiter the broih by litile and little; as her ftomach could bear it, until the lofs of blood thould, in fome meafure, be fupplied. At the fame time, as the was inclined to doze; I delired that fhe might have no more of the cordial. Thefe directions I left in the evening $;$ and I was called again at fix next morning, when the midwife told me the pains had returned foon after I left the patient, but were fo weak, that although the ehild's head was come low down, it could not be delivered without affitance. Upon examination, 1 found the vertex at the ơs externum, and the back part of the neck at the pubes: The patient, tiongh much recruited, being fitll weak and the pains languid, I directed the midwife to proseed in fupporting her with the broth, and preferibed a cordial mixture, with, out any opiate; to amufe the woman and her friends.
I reecived arother call at twelve, when I found things in the fame condition; the pains being fo feeble, that although the vertex was at the os externum, they had rot foree fufficient to propel it: I therefore began to dilate the os externum gradually during every pain, and moving her breech to the fide of the bed, though, in conlideration of her wexanels, I let her
lie on her left fide. I introduced the blades of the forceps, one after another, at each fide, between the faerum and ifchium, moving them forwards over the ears of the child; and although I could not reach the os uteri with my fingers, yet they paffed without much difficulty. When they were ex aetly oppofite to each other, and in a line with the ferobiculus corJis, I managed them as in the two former cafes, and delivered the head flowly.

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C A S . E \quad I V .
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IRECEIVED a meffage from a midwife, defring me to prefcribe fome medicines to quicken the labour-pains in a woman whon the attended. As I was then engaged, and would not prefcribe without being more fully imformed of the patient's condition, I fent one of my elder pupils to receive a morc perfcet account from the midwife herfelf; who told him, that the poor woman had been three days. in labour; but would not allow him to examine, though the earneftly requefted my affiftance.

As foon as I was difengayed, I accompanied him to the place, where I found this loquacious midwife exrremely ignorant, without the leaft tincture of knowledge in her profefion. When called to the patient, whofe pains were juft beginning in this her firt labour, the had walked her about and fatigued, her fo much, that the was quite exhaufted, and the pains had entirsly: ceafed. She faid the had done all that liay in her power to make roon for the child, and that her fingers were fwelled and painful with ftretching the birth; Fut. The could not inform me how long the waters had been difcharged. Finding, upon examination, the head at the lower part of the pelvis, and the hairy fcalp of the child, as well as the os externum of the mother, very much fwelled, I ordered her to be put to bed, preferibed an anodyne mixture of aq. fontan, 3 J . tinct, thebaie. gut. xx 。 fwectened with fugar, direfted her to take two fpoonfuls every half-hour, in order 10 procure fleep, and applied to the os externum a large pultice of loat-bread and milk, with hogs-lard. Thefe fteps were taken in the evening; and I was again called at three o'clock in the morning, when I went attended by my pupils, who were permitted to be prefent. The woman had enjoyed tolerable relt, and the pultice being removed and the parts wafhed, we perceived the fwelling was much abated. We therefore waited fereral hours, in expectation that the pains would increafe, fo as to dilate the os externum flowly, and effect the delivery. In this hope, however, we were difappointed; then I refolved to affit with the forceps, as the head was fo low down ; though it was fo fwelled, that I could not diftinguifh its pofition, for I could feel neither future, ear, or back-part of the neck. Neverthelefs, I concluded that as it was fo low down, the eare would be to the fides of the pelvis, efpecially as the foft parts below were protruded by the head, yet not fo much as to allow me to reach to the forehead, if beckward, by introducing a finger in the rectum. However, I theught it highly probable that the forehead was backward toward the faerum, rather than forward to the pubes; and, in this perfuafion, I directed the woman to he laid on her back acrofs the bed, with her breech a litte nver the fide, her head being fupported by the bolfer and pillows, and two affiffants holding afunder and fupporting her legs. Then I introduced a bla ef the forceps on each fide of the head, and gradually affiting as in the foregoing cafe, delivered the woman without lacerating her partsy of even marking the child's head.

## $C A S E V$.

## Commrnmicnted iu a letter by Mr. Puddecomb, at Lynn Regiso

HE was calied to a woman who had been two day's and nights in labour. and very much fatigucd. The pains had left her; and though the head prefented at the upper part of the pelvis, he delivered her fafely of a Live child, whofe head retained no improfion or mark of the forceps.

## $C A S E$ VI. Commannicated in a letter from Mr. Fordan, Folkfome.

THE woman had been for a confiderable time in ftrong labour, fo that her face was excellively fwelled, her eyes ready to tart from her head. and fhe was hardly able to fpeak. The labia were very much tumified, the rertex prefented, the head was low in the pclvis, and lay diagonil, the forchead being to the fide of the facrum, and the oc̣eiput at the mother's groin on the oppofite fide, in which fituation it had continued for the fpace of five hours.

After having placed her in a fupine pofture, he introduced the forceps, and delivered her of a dead chilit. As fhe labourcd under a dyfuria from the tumefaction of the parts, cataplafms were applied, and in a few days carried off that complaint.

He likewife wrote that he had in the fame manuer delivered a young woman of a live child.

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C \mathcal{A} S E V I .
$$ Commmanicated by Mr. Brookes, in a letter dated North fralbann.

THE woman had been long in labour, and the waters were difcharged. The child's head was low in the pelvis, the forehead being toward the left ifchism, but foftrongly compreffed that he could not raife it. He was therefore obliged to introduce the forceps diagnnalwife, fo that one blade was at the fore part of the ear, and the other at the back part of the nther ear. After having turned the forehead backward into the hollow of the facrum, he delivered the woman; and the midwife and all prefent were agreeably furprifed when they heard the child cry, as they took it for granted, its life could not be faved.

Mr. Broukes fays he did not ufe this method until after he had waited two hours, to fee if, by dilating the parts, the child, which was the wen man's firtt, could not be delivered by the labour-pains.

## NUMB. II. CASEI.

## FROM ANXIETY OFMIND.

BEING called to a patient, the midwife told me that the labour bad gone on as woll as fhe could defire ; until an officious woman came in, and, in her hearing, faid there was a fre in the neighhourhood. She was fo much alarmed and affected at this rejort, that the was inmediately feized with faintings and thiverings, and her pains in a manner ceafed.

- Upon examinarion, I found ale head low in the pelvis, the back part of the nock being at the uy cr part of the pubes; from whence, concluded. that the forchead was turned to the coneavity of the facrum, and that the ears were at the fides of the pelvis, all the back and lower part of whichs; was filled up with the parictal bones.

The patient bcing of a weak and lax habit, her pulfe low, and her fpirits deprefled, 1 prefcribed the follo ing julep:- R Aq. cinnamom. fimp. $\mathrm{Z}^{2}$. Cinnamom. fpirit. 弓fs. Tinct. caftor. Sp. c. c. $\bar{a}$ gut. xxx. Confect. cardiac $\xi$ fs. Syr. croci, $j$ fs. M.. Of this the took two fponfuls frcquently; by which her ftrength was a little recruited, but her pains continued weak, and feldom recurred; and I plainly perceived, that the labour was retarded by nothing but the want of Atronger efforts; for I knew the child was fimall, becaufe I paffed my fingers all around the head, which was not retracted after a pain.
I had placed herin a pofition betwixt fitting and lying, at the bed's foot ; one woman being behind to hold up her head and fhoulders, and twa others on each fide to fupport her legs, in ho e eth the weight of the child might affift the delivery; but finding, that although the head was fo low, it did not advance, and having waited to no purpofe for the effect of a great many fuccefive pains, which I encouraged and endeavoured to increafe by ftetching every now and then the os externum! with one or two fingers, I thought it would be the fafeft method, both for the mother and child, to affint as in the former cafes of this collection.

Although a fupine pofition would have better favoured the introduction of the forceps, yet, as the patient was weak, and the weather cold, I kept her on her left fide, her breech being moved to the bed-fide, and her knees up toward the abdomen, with a pillow betwecn to keep then afunder.Then infinuating two fingers of my right-hand between the facrum and left ifchium, to the infide of the os uteri, I with the other introduced one of the blades, turning it forward to the lefr ear of the child : now withdrawing my ri, ht-liand, with which I held this blade, until I futhed up the fingers of the left-hand at the other fide, between the facrum and right ifchium to the os internum, I introduced the other blade, moving it forward over the right ear, and taking care as I went up to turn the handles of the forceps more and more backward. Finding the blades exactly oppofite to each other, I locked them, and began to pull gently from blade to blade during every pain. As the head advanced and dilated the os externum, I with my right-hand turned the handles of the forceps more and more toward the os pubis, at the fame time prefling the palm of my lefthand upon the perinæum, which was now pretty much diftended. In a few pains the head was delivered, by moving the handles, with an halfround turn, towards the abdomen and between the thighs, while with the other hand I flipped back the perinæun over the forehead and face of the child. Then taking off the forceps, the body was delivered, and the pla, centa coming down was foon extracted.

## $C \quad A \quad S \quad E \quad S \quad$ II. and $I I$.

MI attendance was befpoke to a woman who loft her hufband during her pregnancy. She was naturally of a weak and delicate habit of body; but her weaknefs was fo much ịncreafed by the grief pioduced from this misfortune, that the looked like one flarved by want of fleep, app etite, and digeftion. When labour came on, I was afraid fhe would fink under it; for fhe fainted fevcral times, and threw up every licuid or cordial that was given to fupport her.
I kept her contantly in bed ; and as it was her firt child, the os uteri was very fowly opened by the waters and nembranes, which luckily did not break until this part and the vagina were fully dilated. As to the os.
externum, which I feared would not fo eafily yield, it was lubricated with fomatum, and I every now and then gradually fretched it with my fingers during a pain. When the membranes broke, a large quantity of waters were difcharged; the child's head being fimail, foon came down to the os externum; the pains entirely ceafed; the could now keep fome broth on her fomach, lay a long time quiet and eafy, and enjoyed fome fleep; by which The was very much refrefhed.

In about two hours after the waters ceafed to flow, fhe was taken with fome flight pains; by which the head was propelled in a flow manner, and pufhed the external parts a little outward, though it had not force fufficient to dilate the os externum for delivery. After having waited in vain a confiderable time, in hope that the pains would at laft effect this dilatation, and the patient's frength beginning to fiil again, I applied the forceps, and delivered her pretty much in the manner defcribed in the foregoing cafe.

Shortly after, I was called to another woman by fome of her neighbours, who told me it was not known that fhe was with child until the was in latour, when her mother had beaten, abufed, and exafperated her to fuch a degree, that fhe had become frantic; and in herturn threfhed the mother, midwife, and all prefent, who had at length locked her in a room by herfelf: they therefore begged I would vifit her, and bring my pupils along with me.

We found her lying in bed, fo fullen that fhe would not fpeak when the women told her they had brought feveral doctors to keep her in order. I examined as fhe lay; and feeling the child's head low in the pelvis, waited a long time for a pain, but to no purpofe; the feemed to be afraid, and lay very quiet. Her breech being moved toward the bed-fide, Some of the gentlemen kept her in that pofition until I introduced the biades of the forceps as in the two laft cafes; with this difference, the forehead was backward, though toward the right fide, that is, to the membranous part that fills up the empty fpace between the facrum and ifchium.

She lay quite calm and refigned while I introduced and placed the blades oppofite to each other, and locked the handles firmly with a fillet, to prevent their flipping off the head, in cafe fhe fhould prove refractory; then, fhe having no pains, I pulled the head lower and lower, until the perinæum and fundament began to diftend, when I turned the forehead more backvard into the concavity of the facrum and coccyx. I afterward pulled at intervals; and as the head advanced, and os externum ftretched, I turned the handle of the forceps more and more toward the pubes, aud delivered the head and body of the child as in the two former cafes.
$\ddagger$ have often been called, with my pupils, to the affiftance of poor women, who were reduced to a fick and weakly condition by poverty and the want of the neceflaries of life, as well as by being fatigued by midwives, who, to ufe the common phrafe, had put them too foon upon labour. Many of thefe women have, by means of reft and nourifhing things, recovered Atrength, and teen delivered by the labour-pains; though fometimes, when the child's head was low down, and the pains fo weak as to prove ineffectual, I have, as in the above cafes, ufed the forceps, without doing any violence to inotiler prechild.

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C A S E \quad I V .
$$ HILE he attended iny lectures, he was called to a woman, who, the day before, had complained of a head-ach, to which the had been fometimes fubject. Early in the morning the was feized with convulfions,

and lay infenfible between the fits. He found the os uteri open to the breadth of a crown, and very thin ; underfood the membranes were broken; and the convulfions acted as labouring-pains. A finall fooding heginging, he tried to affift hy firctching the parts, which yielded with fome difficulty; and the head being advanced, he delivered the child with the forceps, which had made a fmall impreflion, though without excoriation.

The woman continued infenfible for three days, but had no fits after delivery, except a few that were fight in the evening; and he at length recovered. The child too, which was weak at firlt, did well.

## $C A S E \quad V$.

AROBUST young woman, in the ninth month of her pregnancy, was, without any apparent caufe, fuddenly feized with violent convult fions about fix o'clock in the morning, after having eomplained all night of a head-ach, and ficknefs at her ftomach, with vomiting; which, however, ceafed when the was taken with convulions. About ten o'clock $I$ found her violently convulfed, and the os tincex a li the opened; as the had a flotid complexion, and full pulfe, twelve ounces of blood were immediately taken from her arm, a ftimulating clyfier was injected, and a cephas lic julep prefcribed; but notwithfanding thefe remedies, the continued convulfed, and quite infenfible. Being called again by the midwife at cight o'clo:k, I found her extremely low, her pulfe being fearce perceptible; and upon examination, I perceived the child's head was, by the violence of the convulfiens, forced low down into the cavity of the pelvis, with the ear toward the os pubis, and the forehead turned to the os ilium on the left fide.

The forceps being introdnced in the manner defcribed above, the v:oman sas readily delivered, and the placenta, which fimmy adhered to the fundus nteri, was afterwards brought away. She feemed eafy afrer delivery, but her pulfe was fo low that it could not be felt, and fhe expired in about half an hour.

From all thefe circamfances, it plainly appears, that if the woman had been fooner delivered, fhe might have recovered, as well as the perfun mentioned in the former cafe.

## COLLECTION XXVI.

Of diffecult cafes from the rigidity of the parts, circumvolutions. of the •unis, and contractions of the uterus, in which the forceps were ufed.

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N U M B . \quad I . \quad C=A S E 1 .
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## from rigidity.

IW AS called to a young unfortunate creature, about the age of fifteen, who was in labour. The membranes were broke hefore I arrived, and the os utcri, which was open to the b:eadth of half-a-crown, was very thin, but felt rigid in time of a pain.

Labour procecded very flowly all night, and when I returned in the morning, I found the child's liead low in the polvis, and the veriex pro-
truding the parts below in from of a large tumour, but the os externum was fo ftrait and rigid, that I could fearee introduce two fingers, and the pains were fo ftrong, that I was afraid of a laceration. In order to prevent this, I, with the palm of my hand applied againft the perinxum, reftrained the force of the head, and when the pain went off, dilated the os externum by little and little. However, tivo hours elapfed before it was fo opened as to admit all my fingers; which were fo tired and cramped, that two of the pupils were obliged in their turns to affift in the fane manner, and in about two hours more, it was fo largely dilated, as to recerve about one-third part of the child's head, that pufhed out in a conical figưre.

By this time the poor createre was very much fatigued, and the pains were become fo languid, that there was no longer occafion to prefs the hand againtt the external part. 'Though we continued to encourage her; and fupport her with caudle and broth, that the parts might have time to dilate, fhe and they grew gradually weaker and weaker, and I began to be afraid that if alliftance fhould be longer delayed, fhe might be in danger of her life, for the was every now and then attacked witk fainting fits. When her pains began to grow languid, I had placed her in a pofture betwixt fitting and lying, with her breech to the bed'sfoot; fo that, without altering her polition, I applied the forceps, and with great difficulty delivered her of a child, whofe head being large, was fqueezed to a great length, but in a few days retrieved its round form.

The parts of the mother were fo much inflamed, that for feveral days The laboured under much pain and difficulty of urine.

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C \quad A \quad S \quad E \quad I I .
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IN the following year, my attendance was befpoke to a woman in her firt pregnancy, turned of forty, and of a thin, though healthy conftitution. The pains proceeded flowly, as in the former cale ; fo that three days elapfed in a kind of lingering way, before the rupture of the membranes, which were pufhed down in form of a long get. The watess being difeharged; the child's head, which was fimall, advanced downward. pufning before it the os uteri, which was not enough dilated to allow it to pafs. This I kept up during evcry pain, Atretcling it with my fingers, until I flipped it all round over the head. As the os externum, in the former cafe, had given me fo much trouble, I now began in time to dilate it during every pain; and fucceeding fo well, that I was in hope the head would not be long retained after its arrival at that part. I found this precaution was right, for the woman had been fo much and fo long fatigued before the os uteri and vagina were fufficiently diftended, that when the head came down and pufhed out the external parts, her Atrengt!) and patience were almoft exhaulted; neverthelefs, by amufing and encouraging her, the exerted her courage and foritude for two hours lortger, though to very little purpofe. At laft, perceiving the puins trere too weak to force down the bead, and dilate the parts fo as to let it pafs, though about one-fourth part of it was already protruded through the os externumr; obferving thefe circumfances, I fay, I tried to introduce the whalctone fillet, deferibed in my 'Treatife, and alledged it to be an c:icellent contrivance for helping along the head in fuch cafes. This I endeavoured to infinuate betwixt the child's head and facrum of the mother; but as it could not be properly
fixed over the chin, I withdrew it, and applying the forceps along the ears 25 the fides of the polvis, affilted the delivery as in the former cafc.

The child was large, and the head being compreffed into a lengthened form, produced coavullions, of which, however, it recovered, in confe. quence of my allowing the funis to bleed a little.

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## EROM CIRCUMVOLUTIONS OF THE FUNIS, OR CONTRACTIONS OF THE UTERUS:

ONE of the poor women attended by my pupils was taken in labour ; which went on in the common way, The membranes and waters pufhing down opened the os externum; and when they broke, the head came down to the middle of the pelvis; but when propelied a little farther by two or three fucceffive pains, it returned to the fame place, and continued to advance and retreat in this manner for the fpace of feveral hours; fo that the woman was much fatigued, and the pains became weaker and lefs frequent. As this difficulty neither procceded from the large fize of the head nor the narrownefs of the pelvis, I concluded it mult be owing to the funis rather than to the contraction of the uterus before the fhoulders; becaufe this contraction of the head happened immediately after the rupture of the memb:anes, and before all the waters were evacuated; and I'was certain that it could not be occafioned by the expanfion which happens in the abdomen of a dead child, becaufe I plainly felt it alive by the motion of its head.

Thus convinces, I directed the patient to be placed in a pofture hetween fitting and lying; which I imagined might affilt the delivery. When the head was forced down in time of a pain,. I introduced a finger into the re\{tum, and tried to keep down the head; but could not reach fo high up as the forehead, which was to the right fide of the facrum. I then, during every pain, gradually opened the os externum, which eafily yielded, the woman having had children hefore, and introducing a blade of the forceps along each ear, that is, one at the left fide of the facrum and the other at the right groin, I locked them together; fithat when the pain recurred I could keep the head down, and prevent its being retracted. In the time of the next pain I brought it lower, and turned the forehead into the hollow of the facrum; and in two pains more it was advanced to the lower part of the coccyx. When it was in this fituation, I introduced two fingers into the rectum to keep it down; but it being fill tno high up, I, during the next pain, brought it lower; when, finding I could command the head by prefling my fingers againtt the finciput at the root of the nofe, I took off the forceps with my other hand, and helped the head along in the manner sieferibed in the lingering cafcs. The funis being thirty inches in length, was twice circumvoluted round the neck, and once round the arm.

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C A S E S \text { II. III. IV. and } V \text {. }
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IATTENDED a private patient, who had been very much weakened by flooding from time to time. 'The membranes broke, and the labour proceeded tolerably well; but when the head came low down, it was drawn back after cuery pain, as in the former cafe. Having fixed the forceps, I brought the forchead down below the coccyx ; but as her pains:were weak, and this was her firt child, I kept on the inftrument until one-third of the
had wàs without the os externum; and I found I could eafily keep down the head by prefling my fingers againlt the external parts on each fide of the coccy $x$. After having taken off the forceps; I; during cach fucceeding pain, preffed the head upward with that hand, while with the fingers of the other I Iipped the os externum over the child's head. The funis was uncommonly fhort; and once round the neck:

At three in the morning I was called to a womari in labour, by a midwife, who told mie the waters had been difcharged two days, even before the os uteri was much opened; that after this difcharge thic pains were lingering, and fome part of the waters continued to dribble until the evening belure I was called; wher the head came loiver down; but now it was after every pain drawn back out of reach, and the pains were grown much Itronger. I took thế prôper opportunity of examining, and found the head propelled to the iniddle of the pclvis by every paxin; after which it was drawn liack to the upper part:

After having feen her undergo feveral ftrorig pains, by which the head was not at all advanced, I edtily introduced my hand into the vagina of the patient, who had boren fevcral children ; and as the pain abated, raifed the heald fo high above the brim of the pelvis, that I could pafs my righthand flattened along the left fide, and over the forehead and face of the child, where I found the lower part of the uterus Atröngly contracted.: I continued to puih farther up and dilate the part; fo as to be able to bring the child by the feet; but finding this expediert impraticable from the force of the contraction, I withdrew my hand in the beginning of a pain, and the child's head was immediately forced down to the os externum; though it was atterwards retracted to the middle of the vagina. However, havirify fücceeded fo far, I waited for the effect of feveral pains, which I hoped would force the head lower down, now that it had made fuch pro'grefs; but finding my expectation difappointed, and knowing it would be an eafy talk to aflift the delivery; I had recourfe to the forceps. Onc ear of the child being to the pubes and the other to the facrum, and the woman lying on her left fide, I would nót alter her pofition, but brought her breecli to the bed-fidë, afd moved her head to the upper and back part of it ; theni fitting in a low chair behind the patient; the forceps being prisately difpofed; I eafily introduced the fingers of my righthand 10 the os uteri, between the pubes and head of the child, which wasfinall, and infinuated one blade of the forceps gently, that I might not hurt the bladder; then I introduced the other blade upon my left-hand, between the other fide of the child's liead and the facrum; carefully turning back the handle in order to humourं its curve; and being certain that the initrument wass well fixed, pulled gently from blade to blade; and kept the head from being restracted as the pain abated. I continued to affift in this mamacr durin'g every pain; until the occiput was brought to the lower part of the right ifchium; then ttirning the forehead into the concave part of the fricrum, the ceciput came cut from bclow the pubes, and the head was flowly delivered.

We had a purblic cafe of this nature, at which my pupils attendêd: The waters had been long difoharged before the head was forced into the pelvis, and wè marraged the labour in the cautious manner defcribed above; yet after I had dilated the parts, and applied the forceps, I conld not, by repeated trials, bring the head through the os externum. Being affured from experience, that the obfruction proceeded either from the contraction of the uteluy or the detention of orte fhoulder above the pubes, and not from a tamefaction of the abdonen, becaufe I felt the pulfation, though very
weak, at the fontanel, I difengaged the inftrument, and, raifing the head again, found the difficulty was owing to the left fhoulder baing over the pube.. As the woman lay on her back, I introduced iny right-hand, but could neither force the thoulders to the right fide of the pelvis, nor pufk the child farther up, fo as to bring it by the feet, though the head was not larye. I then withdrawirg my right, introduced myy left-hand on the other fide, and raifing the head, tried gain to pufh up at the anterior parts of the child, fo as to reach the feet; but failed once more from the ftrong contraction of thie uterus. Huwever, getting hold of the left arm, I brought it down; and as I withdrew my hand, the head followed to the os externum and lower part of the pelyis. I turned the right-arm to the right fide of the facrom, elic pains being weak, again fixed the forceps; which I moved in a proper manner; ami pulling gently at the hard, delivered the head, which was followed by the body.

I was called by a midwife to a woman who had been many hours in labour, and found, that after the difcharge of the wasers, the head was forced low down by every pain, but afterwards drawn up again. I was likewifo informed, that formerly fhe ufed to have large children and quick labours. Finconraged by this irtimation, I tried to turn the chilid, but was prevented by the ftrong contraction of the uterus; but in making this trial, and raifing the head, I not only found the funis furrounding the neck, but likewife the uterus contracted before the moulders. This lait I dilated with my fingers as much as poffible; then withdrawing my hand, applied the forceps and delivered the child, which had been dead for fome d..ys. The funis was three times round the neck, being much tumified, and of a livid colour.

## C O L L E C TI, O N XXVII.

Of laborious cafes, occafizoned, by the large fize of the chitld's hsad, the narrowness or diftertion of the pelvis, when the head is low and delivered with the forceps.
[Vide Part. i. Book iii. Chap. 3.]
$N \cdot U$ M B. $I . \quad C A S E$ S. $I$. II. AMd $I I I$.
FROM THE LARGE SIZE OF THE CHILD.

N/Y attendance was befpoke to a woman who had lof her firt chit in confequence of its large fize. This fecond labour went on in the ufual way, until the os uteri was largely opened by the watcrs. and membranes, which breaking, the verrex advanced to near the middle. of the pelvis ; then the pains ceafed for about two hours ; during which the patient lay eafy, and enjoyed fome fleep. After this intermiffion, a painbegan to recur every now and then; and a good deal of water being dife. charged, they returned frong and frequent; as for the patient, whofe conftiturion was weak, I kept her moftly in bed.

The parietal bones began to ride each other, the hairy fcalp became loofe. and wrinkled, and the head was gradually and flowly fyueczed down to the lower part of the pelvis, where it remained for a confidcrable time. The occiput was ftrongly preffed againt the lower part of the right ilchiurs, the. fontanel being at the upper part of the left; but the heak was fqueezed to.

O great a length, and fo firmly compreffed againt the infide of the pubes, that ! could not reach the ear with niy finger.

After many frong pains, the patient's ftrength and $\rho_{\text {pirits began to flag; }}$ and both the and the friends hecame apprehenfive that this child alfo would be loft, notwithifanding the encouragement I gave, by telling them, that I had delivered many women of live children after they had been much longer in !abour. The force of the pains was by this time abated; yet every now and then the was ta'sen with one ftronger, that forced s'e he a a litule lower, fo that could feel the child's left ear toward the left groin of the mother. At length the patient being ftill mere funk, and perceiving no farther ad. vance tovard delivery, I in roduced the forcepa as the lay on her fide; and during every pain tried to bring the head lower, and turn the forchead backward to the facrum. But in this attempt the infrument beg n to llip. fo that I was obliged to unlock the blades, and move eacla up.rad again over the ears; the handles being fixed and tied with a garter, I furned the patient on her back, and directed an affiftant on each fide to fupport the ie ss matters being thus difpofed, I waited for a pair, and giadually dclivered her as in former cafes. The child, whofe head was fqueezed into a ieng thened form, feeme.t at firft to be in a convulfion, but foon recovered in confequence of my letting the funis difcharge abour two or three fpoon fuls of blood.
I was called by a midwife to a cafe refembling the former, and tried the whalebone fillet (vile tab. xxxviii.) which ! could not get over the chin; fo , hat finding the rrincipal hold was on the face, I withdrew it, and waiting fome time until the patient and the pains grew weaker, I applied the frceps, with which I delivered, as in the other cafes of this collection. My reafon for withdrawing the fillet, was becaufe I durft not venture to exa ert fo much force as was requifite for delivery, left the part of which I laid hald fhould have been galled to the bone; for I knew one inftance in which the fillet had been ufed, and actually fcalped the child; and another, in which the child's under-jaw had been cut to the bone by the force of pulling.

In the courfe of the fame year, being called to a woman, who, according to the midwife's report, had been three days in labour, I found the child!s head at the lower part of the pelvis, and a large tumour on the vertex, pratruded without the ofexternum. She had been in a flow kind of labour all Saturday and part of Sunday, when the membranes hreaking, the pains became itrong, and continued fo all sunday night; by thefe the head had ke:n puthed down, bot did not advance farther than the fituation in which 1 found it on Monday night.

The patient was much exhautted hy farigue and the length of the labour. Her pains being languid, I preicribed a cordial mixture, with confect. cardiac, and flowly dilated the os externum during every pain. By thefe efforts the pains grew flronger, and I expected the head would foon be delivered. But being difappointed in my hope, I thought it was pity the woman fhould be kept any longer in fuch a di fagreeable way; and as the lay on her left fre, I endeavoured to mile the head, fo as to know its pofition. I failed, however, in my attempt, and there was no room for introducing a finger or two to feel either the neck orear at the pubes; lhough, as the head was fo low down, I thought it was probable that the ears were to the fides of the pelvis. I then dirceted her to be turned on hicr hack, and fupported by affiftants, as the patient in the former cafe; and fat down with a refolution to deliver, either with the forceps or crotchet, in ofder to fave
the woman's life; thoughi determined to try the forceps firt, that the child alfo, if poffible, might be faved. As the head, which was compreff.d into a great length, filled up all the lower part of the pelvis, fo that I could not introduce iny fingers to guide the blades of the forceps on the infide of the os interi, I attempted to introduce them feveral times, until I was certain that they were fafely paft this plafe, and not on the outfide of the os tincæ. Being convinced that I had fo far gained my point,' I began to bring the head lower during every pain; and at laft delivered the woman of a dead child, whofe head was fqueezed to a great length.

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C A S E \text { IV. }
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AWOMAN, in labour of her firt child, had undergone lingering $p$ ins all Sunday night, and I was called next morning at feven. But the pains being inconfiderable, the membranes unbroken, and the patient referved, 1 was not allowed to examine until ten, when the pains grew fronger. Introducing my finger into the vagina, I felt the rectum full of indurated freces, the os uteri foft, thin, and pretty open, the waters pufhing down the inembranes; and when the pains went off, the child's head refting againff the upper part of the pubes.

I immediattely prefcribed a clyfter, which operated to fatişfaction; and as fhe had enjoyed fome fleep in the fore-part of the night, I defired the might rife until the bed could be prepared before labour thould he far advanced. Every thing proceeded in an eafy and flow manner, and fhe took her pains in an eafy chair, till about twelve, when the was pretty much fasigued. I then directed her to take fome pains on the bed, and now felt the os uteri largely opened, the membranes pufhed down large and full to the os externum ; but the head was not at al! advanced.

Judging from this circumftance that it was large, I would not allow her to be pur in naked bed too foon, becaufe if, after the rupture of the membranes, the head fhuuld not come down without difficulty, it might be neceffary to affilt the delivery by different pofitions: and in the mean time, as the pains were Itrong and frequent, 1 directed them to get ready rloths $_{\text {and }}$ to receive the waters as the lay on her fide, for I now cxpected that the membranes would foon give way. Accordingly the waters were in a little time difcharged; but perceiving that the pains foon after abated, and the head did not advance, 1 allowed her to rife and walk about; and the took her pains fomerimes in a ftanding and fometimes in a fitting pofition; though, in order to prevent her being fatigued, fhe every now and then refted on the bed, haif fitting and half lying. By thefe means the pains increafed, ard at two next morning, the had was advanced to the os extcrnum and lower part of the pelvis.' That it inight not be detained too long in this fituatior, 1 begañ tọ dilate the os externum a little during every pain; and thefe effiorts kept up the pains, which were become languid, in confequence of the futigue fuftained by the patient. 'The head was not at all advanced farther at furr o'clock, when I plailly felt the occiput frongly preffed againft the lower part of the left ifchium, the parietal boncs riding one another, the head, which was large, fqueczed to a great length, and one of the cars at the pubes. Perceiving the pains were not frong enough to pufh the bead farther, fo as that the occiput might rife from the ifchium to the fyare below the pubes, and the forehead ryined back into the hollow of the os facrum ; and knowing that I could cafily aflift and alter the pofition with the forgeps I thought it was fity that the mother and child
grould run any farther rifk; and ordering her to be put in hed naked, I applie the inftrument, and delivered the child, as in col. xxvi. No. ii cafe iii.

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C A S E S \quad V \text { and } V I .
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AWOMAN had been in libour of her fecond child, for many hours after the os uteri was largely opened, and the membranes had broken. ond the midwife had affured the friends, that the head would be delivered by each fucceffive pain. At length, however, the patient'sftrength beginning to fail, they fent forme at three in the morning, when I found the child's head low down, puthing out the parts in form of a large tumour. and the fcalp very much tumified. After having tried in vain to affift the birth by gently dilating the os externum during feveral pains. I directed the patient to be put in a fupine pofture, and as the was very weak, fat down with a refolution to deliver either with the forceps or crotchet; for I found it was wrong, as well as impracticable, to bring the child by the feet. The head was fo large, and comprefled into fuch a lengthened form, that I could not puifh up my finer at the pubes, to feel the ear or neck; neither could I diftinguith the fituation of the head by the futures, hecaufe the fcalp was So much fwelled; nor could I move the head upward, in order to feel the upper parts, fuch as the ear, neck, or f.ce. But fup ${ }_{r}$ ofing, from the touch of the lower part of the head, that one part preffed more againft the left ifchium than the right, I concluded that the forehead was at the right fide of the facrum, and the occiput fopped between the ifchium and groin. In this perfuafion, I introduced one blade between the child's head and the mother's right groin, and the other at the left fide of the facrum, along the ears; then locking the handles, I tried to turn the forehead more backward, but could not, until I had pulled the head a little Sower, when I delivered, as in col. xxvi, No. ii, cafe i.
In the following month, my affitance was follicited in a cafe of pretty much the fame nature. - The woman was greatly fatigued and exhaufted with labour, the child's head was compreffed to a vaft length, and fo puffed, that I could not diftinguifh its true pofition; nor conld I raife it to as to examine higherup. Neverthelefs, as it was very low, I fuppofed that the. ears were toward the fides of the pelvis; and having laid lier in a fupine polture, I introduced the forceps, infinuating one blade on each fide, as ufual. But the head flucik fo faft I could not move it lower: then I attempted to turn it to the right fide of the facrum, imagining the forehead might be to the left, as I had moftly found it; yet here alfo failing in my endeavours, I turned the other way, when it yielded with great eafe, and the vertex coming out below the pubes, the head was brought along, and delivered without farther difficulty. One blade of the forceps was fixed before the left ear, and over the temple of that fide, and the other behind the right ear and lower jaw ; the impreffion was deeper than ufual, but not fuch as to do any injury to the child.
$N . B$. In the two former cafes, I firft of aill tried to move the occiput downward, and turn the forehead back to the facrum, with one blade of the forceps.

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N \cup M B .11 . C A S E S I \text {. and II. }
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FROMASMALL OR DISTORTED PELVIS, WHEN THECHILD'S HEAD IS LOW.
for the was of a fmall make and fature. - The was taken in labour when I happened to be engaged, fo that I was obliged to fend a midwife to attend her ; and before $!$ could fee her, the me.nbranes were broken, the os uteri was largely open, and the head fqueezed into the middle of the pelvis, in form of a cone or fugar-loaf.

The midwife had kept her mofly in bed to prevent her being fatigued, and I advifed her to coninue in the fame fituation, until the co:inplained of being weary of that pufition, and of violent cramps in her limbs. Then getting up, fhe walked about the room, and took her pains fometimes Itanding and fonerimes fitting; though I defired the would not fatigue herfelf by walking or fta ding too long, nor force down, excep: when the pains were ftrong. In this cautious manner fhe was masaged all night, during which fhe relted at intervals upon the bed, until fhe was compulled to rife by the violence of the cramps that feized her as fhe liy; and as lexamined every now and then, I found the heal advance by little and little, every thir or fourth pain, which was fronger than the reft. At fix in the moraing, the vertex was preffed down to the lowerp. rt of the pelvis, below the right ifchium; but at eight it had made no farther progrefs, though it * was facezed to a grear length, and the parietal bones rode one another. By this time the patient was very much fatigued, her pains were become weaker, and af fnall inservals the was fuljeftio retchings, which, however, fuppled the defect in the latour-pains, by forcing the head fo low as to protrude the prinxum and adjacent parts, in form of a large tumour. I winted fome tine, in hope that this extraordinary affilance would deliver the child $\%$ but the patient being fuddenly feized with a fainting fit, I thought it was high time to have recourfe to a more effectu I expedient; and the child's left car being to ther left groin, and the forehead at the left fide of the facrum, I moved her breech to the bed-lide as hae lay on her left fide, introduced the forceps al $n_{5}$ the ears, as in collect. xxv. No. ii. cafe i. and in that manner tifely delivered the woman of a live child, which had been retarded by the finalinefs of the pelvis, though it was not at all diftorted.

I was afterward called by a micinite to a syoman of a fmall fature, about ten in the morning, when ilfound the vertex at the lover part of the left if chiam, and the head fqueczed into a lo gitudinal form, as in the preceding cale; as for the watess, they had been draining off for fome time befure $I$ arrived.

The patient being pretty much exhauted, was put in bed; and as fhe had been feized with a loofenefs at the beginning of labour, and enjoyed no aleep the preceding night, I prefcribed an anodyne mixture of tinct. thebaic. gut. xv. \& Iyr. e meconio iij. in aq. fimp. $\overline{3}$ vfs. of which me took t, vo fioonfuls immediately, to be repeated occafionally until relt fhould be procured.

This prefeription had the defired offect; and next morning about eight, 1 was called, and informed, that although the pains had been itronger, the head was very little adyanced. I now felt the vertex had made fome progrets; the occiput was turned below the pubes, and the forehead to the facrum, though not fo low as that $I$ could affit with my fingers in the rectum or at the fides of the os coccygis. The pains were likewife hecome weaker, and the patient's frength began again to fail. The child's ears being by this time to the fides of the pelvis, and nothing wanted but pains to promote the birth, 1 directed her to be placed in a fupine pofition on the beds and with the forceps delivered her of a dead.child.

IWAS called by a midwife to a woman who had been fiekly from her infancy, and very much difterted. The membranes had bec̣n, broken, and the waters difcharged feveral days before fhe was in labour, and the midwife; who had attended her fince the preceding morning, affired me the had been in flong labour for four-and-twenty hours. I found the vertex prefenting, the mouth of the womb fully opened, and the head down to the lower fart of the pelvis; but when I introduced a finger betwixt it and the pubes, $\{$ could noereach fo high as to feel the ear, nor could I diftinguifh by the futures, the right fituation of the head. Neverthelefs, the patient being weak and low, I dirested her to be laid acrofs the bed, in a fupine pofition, and introducing the forceps at random, by the fides of the pelvis; tried by gentle efforts, during every pain, to bring the head lower down: but finding I could not move it without ufing fuch violence as, might be prejudicial to the mother and child, I withdrew the infrument, and refolved to wait a little longer, and as the pationt had flept but vers little for two nights, and was much fatigued, I prefcribed an anodyne draught," by thich the procured reft, and was refrefhed. Then the pains returning, and forcing down the head, fo as to protrade the external parts, I leceived another call; and found the back part of the neck at the pubes: from this circumftance, I knew the forenead was in the hollow of the facrum, and that the ears were to the fides of the pelvis; I thercfore, after having allowed her to take a feiv pains, whicil were weak, conlidered, thatit as the head was low down, the affitance of the forceps might prove effectual, in helping it along; fo having placed her in the pofition defcribed above, I introduced them along the ears of the child, and by pulling genily every pain, delivered the head, which was fqueezed to a great length; but the os externuin was fo rigid, that half an hour elapled before it could be dilated fo as to let the head pafs without laceration.

After delivery, I infroduced my finger into the vagiva, and found the pelvis fo diftorted, from the jutting forward of the upper part of the facrum, that had the child been large, its life could not poffibly have been faved. The head was of a lengthered form, and contorted to one fide, and there Was a deep imprelfion wove the ear. The forceps too, when firlt fixed, had impreffed the fo:chead, though the mark difapfeared in five or fix days: but they made a very inconflderable imprefion when they were fixed the fecond time along the ears.

## $C A S E S$ IV. and $V$.

AMiDWIFE called me to a woman, whom the had formerly delivered of a dead child, and the faid flic had, on that oecafion, felt an uncommon bamp hackward. When I cxamined ler, the membranes were broken, an I the child's head was runk down to the middle of the pelvis; there it was retarded by a jutting in at the middile of the facrum; for in. fecad of feeling it concave, I found a promincrice, as if one of the bones in the middle had teen pufthed before the relt; and the vertex of the child feemed to be preffed down in a thatened form, by the woman's pains, which were ftrong and frequent.

I was called about thres in the morring, and prefcribed fome innocent things to amufe the patient and her friends, who wore extremely ansious, and went asay, after having defired that fhe might not be hurried :bunt oz farigued. I recieived another fummons about ninc, when I found the
vertex fqueezed down to the lower part of the pelvis, the woman ex: haufted, and her pains abated. As 1 at that tine imaninted, with others, that in labours the forehead was monly to the facrum, and the ears to the fides, I caufed the patient to be laid acrofs the bed on her back, as in collcat. xxy. No. i. cafe i. and afplying the forceps along the head, at the fides of the pelvis, tried, during every pain, to help it along; that the ehild might not be loft. As the relittance was great, I gradually increafed the force, and though the forceps nipped feveral times; I at laft delivered the head, by grafping the handles more firmly, and pulling up towatd the pubes. But the perinxum was toren by the fudden delivery; becaufe I did not then know how to make the proper turns, and proceeded in the flow and cautious manner which I have fince adopted. The child's head was fqueezed into a longitudinal form; flattened on the fides; with a deep iurpreflion or the cranium above the ears, and from an indention on the os frontis, by a blade of the forceps, which had been fixed on that ant the occiput, I difcovered that the ears were not to the fides as I ha! imagined. Thefe imprefions had very much galled and inflamed the parts; but, in confequence of proper care; they digefted, and the child recovered; and as he grew up, the inarks diminifhed and difappeared. I told the midwife and nurfe, that the patient's perineuin was cracked; and defired they would toot make her uneafy, lyy infotming her of an accident which would be attended with no bad confequences. Accordingly; the parts were perfeetly healed in the fpace of twenty days.

A midvife demanded my affiftance in behalf of a women; whom the had once before delivered, with difficulty, of a dead child, in the eighth month. In this labour, the membranes were no fooner brokes than Ireceired a call, and found the pains ftrong; the child's head advanced to thes middle of the pelvis, and the vertex gradually defcended to the lower. part of the ifchia, which feemed remarkably near to one another, The head being luckily fnrall, and the occiput to the left ifchium, I refolved, after having waited a confiderable time, to turn the forehead backward to the os facrum, on the fuppofition that the narrow part of the head would more readily pafs between the ifchia، Thus determined, I kept the patient on her fide, and applied one blade of the forceps at the puhes, and the other at the facrum, along the child's ears, and with great difficulty turned the forehead to the facrum; but before I could deliver the head, I was obliged to alter their pofition, fixing one behind the left ear, and the other betore the right ear, backward, at the right fide of the facrum.

I attended in another cafe of this kind, in which I was obliged to open the child's head, on account off its largé fize.

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\begin{gathered}
C \text { A S E S VI. and VII. } \\
\text { Communicated by Mr. } \mathcal{F} \text { - of } G-\text { or }
\end{gathered}
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THE membranes had been broken, and the woman in ftrong laboirr for more than twenty hours, and was weak from being over fatigued. After fhe had taken a few pains, he found the head did not advance, and confudered, that although it was high, yet it might be dangerous to wait longer, on account of the patient's weak condition. In puthing up his hand into the vagina, he found one ear backward; and above the upper part of the facrum, which projected confiderably forward with the laft vertebra of the loins. The head felt alfo very lirge, and the forehead was to the right Gide; he introduced the blades of the fhort forceps, that were covered with
leather; but being afraid that the handles wcre too flort, he brought thefe out, and introduced a longer kind uncovered, which was the kind he had ufed when he attended me. After he had fixed thefe properly, he tried feveral times in vain to bring the head lower. Upon which he refolved to give up that method, and open the head. Finding, howcver, that the forceps did not filp, but kept a firm hold, he refolved to try and make one effort more; and after pulling with all his ftrength, and moving the handlcs of the forceps over the pubes, he got the head delivered, yet not without bending backward that bladc of the forceps that was next to the pubes. She was delivered of a dead child about noon. In the evening fhe feemed to be in a good way, and in a breathing fwcat. . Next morning fhe was , attacked with a violent loofenefs, which he reftrained with opi:tes; but that evening fhe was comatnus, and expired next morning. He fuppofed the laft bad fymptom was occafioned by their giving her, without his knowa ledge, half a pint of rum at two draughts.

As he defired my opinion of this melancholy cafe, I wrote him the fol. lowing letter, with another cafe of the fame kind:-

## " S I R,

" I reccived your's, which I ought to have anfwered bcfore this time. Since you attended me, I contrivcd the laft forceps with fhorter handles, on purpofe that too great force might not be ufed; and when they are not fufficient ${ }_{3}$ I would then open the head, and extraft with the crotchet. No doubt I fhould perlaps have been tempted even to ufc as great force as you did, when there was fo good a hold; but yct you may confider how much the foft parts of a woman muft fuffer, by the bending fo ftrong an inftrament aga nit them as the blade you fent mc. If you had beerforoner called, to prevent the womaann being over-fatigued till the head cane lower, there might have been a chance for faving the child. When the pelvis is narrow, and the head large, and fo high that you camot, or dare not, turn the child; and the woman in danger from extreme weakncfs, it is right firt to ' try the forceps; but when you find it will not come along with a moder te force, the crotchet muft be ufed, for we ought never to endanger the life of the mother to fave the child."

I had a cafe of the fame kind fome time ago, but not fo difficult as yours. The membrancs were broken many hours, and the head was forced in the middle of the pelvis. Mr. M—_rd was fent for, and tried the forceps; but having no affiftants to hold the woman firm, did not fucceed : then tie fent for me, and I was allowed to carry along with me four pupils. The ears were to thc pubes and facrum, the forehead to the left fidc, and the upper part of the os facrum jutted in forward. As I could not turn the forehead with my hand a little backward, or part the blade of the forceps along the ear at that part, I introduced it bchind the car at the fide of the os facrum, and the other at the fore part of the pelvis toward the left groin, and loffore the other ear, fo that the forceps was fixed diagonally on the head, and the fame as to the pelvis. I ufed a good deal of force, ly which I delivered the head, taking care to make the fevcral turns in extrating it. 'f he child had been dead many hours, the head was large, and fyucezed of a very long figure, and the parts of the woman very much fwelled. She was attacked with a violent loofencfs, which was reftrained by proper refocdies, and the recovered flowly. Wher the parts are inflamed, and nutuch fwelled, the lochia fornetimes are ohftructed, and fall upon the inteltines; efuecially if the patient has been extratuted by a cedious labour.

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C A S E S \text { VIII. and } I X \text {. }
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Communicated in a letter from Mi. Ayre, of Bofon, Lincolingire.

THE labour went on in a flow manner, and, by waiting patiently, the head, after many fevere pains, was forced down into the pelvis. As the woman lay on her fide, he introduced one blade at the pubes, and the other at the facrum, and pulled with confiderable foree during every pain; but the forceps nipping, he was obliged to introduce them again as before; and, giving the forehead a turn backward, the child was, in two pains more, delivered. He fent two other cafes in women who had been long in labour in their firt ehildren; the ears were toward the pubes and faerum, and one of the women was very fat, and about forty. He delivered boih cafes fafely with the forceps, after finding the pains were going off and the patients turning weak.

I had a cafe from L_, by which the gentleman feems to have been too much in a hurry. After ufing great foree, he delivered the child, which was alive; but the head was too much galled with the blades, and the woman was carried off in a few days by a purging. In another eafe, the fame gentlenan tried to deliver with the forceps when the vertex prefented, and the forehead was to the pubes; as he was not able to raife the head fo as to turn the forehead baekward, he pulled it along as it prefented ; finding, that as the vertex pufhed out the perinæum, it was beginning to tear, he took off the foreeps; and the head was afterwards delivered with the l.bour-pains, and both mother and child did well.

## C O L L E C T I O N XXVIII.

Laborious cafes, in which the vertex prefenting with the forehead to the pubes or groin, the patient was delivered with the forceps.

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\text { [Vide Part i。 Book iii. Sect. iv. Chap. iii. } N^{\circ} \text { ii. and Tab. xxi.] }
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\begin{array}{lllll}
C & A & S & E & I .
\end{array}
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IW A S called to a woman who had been long in labour after the membranes were broken. I found the vertex was down to the lower part of the pelvis; but the fcalp being mueh tumified, I could not diftinguifh by the futures the real pof:tion of the head. The woman being mueh exhautted, the pains weak, and the head low, I thought it was proper to aflift the delivery, to prevent her and the child from being in danger. For that end, I caufed her to be placed in a fupine pofition, as in col. $x$ xv. No.i. cafe i. Ithen, during every pain, dilated the os externum, raifed the head above the brim of the pelvis, and introduced my fingers and hand fattened betwixt the head and facrum, where I felt the back part of the neck, which informed me that the forehead was to the pubes. Confidering that the difficulty or obftruction of the delivery proceeded only from the wrong pofition of the head, I firtt tried to turn the forehead toward the pack part of the plvis, and, failing in the attempt from the flippinefs of the fane, I endeavoured to bring the child footling; failing in tha:s effort alfo, from the frong contraction of the uterus, I withdrew ny hand,

- and applying the forceps along the cars, ufed a good deal of force to cxtrace the hicad as it prefented. I brought it fo low that I felt the fontanel one inch or more below the pubes; but could not bring it farther unlefs I had toren the vertex through the perinxum and anus, which were now greatly ftretched. Then I difengaged and brought down the forccps, and introfuce a blunt-hook, that had a round button on the end for that purpofe, up along the fide of the head and above the chin. With this hold, I pulled down the forehcad and face below the pubes, and then delivered the child. This was, at that time, the common method when the head was large, and fqueczed to fuch a length as to prevent the forehcad coming out, either with ftrong labour or the forceps; but the bad confequences that might onfue both to mother and child, made me afraid to continue in this method of practice. For the perinxum was commonly tore, and that part of the child was fometimes fo much bruifed as to produce a violent inflammation, which deftrojed the child; but a lucky incident which happened the year following, gave me thehint of a better method, as in the following cafe.


## $C A S E \quad I I$.

AMIDWIFE called me to a woman in the morning, who had been molt of the night in ftrong labour. I fclt the vertex at the lower right fide of the facruin. Her pains were ftill pretty ftrong, although fhe had loft, both hefore and after the membranes were broken, a large quantity of blood. I found alfo the fontanel at the left groin, which affured me that the delay of the delivery proceeded from the forehead being at that part. The patient being placed as in collect. xxv. No. i. cate i. I introduced the forceps along the ears, holding the handles, when fixed, toward the vertex, which was to the right fide of the os coccygis. Then I began to pall from fide to fide; by which means the head advanced a little, but not fo much as to allow the forehead to turn out below the pubes. In repeating thefe efforts, the forceps flipped off three times; though I did not obferve, till afterwards, that one of the blades, by giving way, was the occation of their flipping off the head. As 1 found I could not deliver the head, by pulling either downward to bring out the forehead, or upward, becaufe the head would not yield that way on account of the chin being preffed againft the breaft, ncither did I choofe to try the blunt-hook, becaufe of the bad confequences attending that method. I was alfo averfe and lorh to deftroy the child by opening the head. While I paufed a little, confidering what method I fhould take, I luckily thought of trying to raife the head with the forceps, and turn the forehead to the left fide at the brim of the pelvis where it was widelt, an cxpcdient which I immediately exccuted with greatar eafe than I cxpected, I then brought down the vertex to the right ifchium, turned it below the puhes, and the forehcad into the holiow of the facrum ; and fafely delivcred the head, by pulling it up from the perinxum and over the pubes. This method fucceeding fo well, gave me great joy, and was the firf hint, in confequence of which I deviated from the common method of pulling forcibly along and fixing the forceps at random on the head; my eyes were now opencd to a new ficld of improvement on the method of ufing the forceps in this pofition, as well as in all others that happen when the head prefents.

## $C A$ S III.

IATTENDED, with my pupils, one of our women in Drury-lane; the membrancs had broken in the evening, and the had frequent and lirong painsall night. When they fent for me in the morning, I felt fomething like the vertex down at the lowerpart of the pelvis; and fhe was much in the fame condition as the woman defribed in collect. xæv. No. i. cale i. Bu* we were all miftaken as to the pofition of the head; for I, as well as the papils, imagined, that, a s the head was fo low, the forehead mult be turned back to the lower part of the facruin; and that, on account of the head bcing fyueezed to a great length, we could find neither neck nor ear at the pubs. We were likewife mittaken as to the futures, fuppofing what was called by the ancients the back fontanel, where the lambdoidal croffes the end of the fagirtal, was the fore fontanel, which was backward toward the facium. I told all prefent, that as the head was folow down, and the delivery retarded by the weaknefs of the pains, it was fafer for both woman and child to deliver her with the forceps; efpecially as I was pretty certain of fucceeding without doing injury to either, being confident, as the had formicily quick and eafy labeurs, that the impediment proceeded only from weaknefs, and perhaps a larger child than ufual, which might be in danger of being loft by longer delay. I had ler then put in the fame pofition, and aplied the forceps in tle fame manner, as in the forementioned cafe. I then pulled gently every pain, and the wonan being expofed to fhow the operation, I was furprized to fee $\mu$ hat I amagined the occiput come along from under the pubes, not with hair, but bald and fmooth. Introducing my finger, I now plainly perceived that we had all miftaken as to the pofition; for I felt the root of the nole and eye brows witlinthe pubes. As the head was now fo far advanced, I thought it would be hetter firlt to ary to bring it along in that manner ; therefore 1 continued to pull along gently, but inftead of pulling upward as hefore, to raife the head from below the os pubis, I pulled downuard, to bring the foreherd and face out from inelow diat bone; they accordingly flipped out gradually, and when the chin was delivered from bele 0 the pubes, I turned up the handles of the forceps toward the face, pulled the head upward, and delivered it according to the directions laid down in thofe cafes where the face prefents. Vide cols xxx. No. ii. cafe i. The woman was not tore; the child's head was foueezed to a great length, but was neither hurt nor marked with the forceps.

## $C A S E$ IV.

AMIDWIFE called me to affit her with a patient, and informed me 1hat fhe bad delivered the woman feveral times, and her labours were commonly tedious from her having large children; but that this was worfe and more tecious than any of the former; for although the waters were a long time come off, and the head had been lnw in the bafon for many hours, fo that fhe expected every pain would deliver the child, all endeavours had proved ineffectual, and the lad fent for me, becaufe the was afraid of both morter and child. She alio told me, that fhe imagincd the head did not preient right, for fhe found the opening at the fhare-bone, and imagined this was the occafion of the difficulty. On examining, I found it as the had rlated. and uas meth pleafed with the midwife's honeft behaviour and fagecious mark. Ifilt alfo he vertex hackward, pufhing outward the oo coces dis and fundament. Although the pains were much abated, and
weaker, according to the midwife's account, yet every now and then fhe had one pretty ftrong. As I found her pulfe rather low and funk, I ordered leer a cordial mixture, and waited with patience to try if the head would ado vance fartlier, that the forehcad and face might by that means pufh out below the pubes; but finding it did not advance, and that the pains were not fuficient, I thought it was proper to ufe the affittance of the forceps. I then hadter placed as in the former cafe, opened the os externum gradually with my lingers, fcooped up the head above the brim of the pelvis, and as i flipped my hand fatened betwixt the facrum and the child's head, I felt with my fingers the back part of the neck, which more fully confremed the midwife's oprinion and mine, of the forehead being toward the pubes. After I had brought down my hand, and found no advantage from feveral following pains, I introdured the forceps along the ears; having fixed them, and preffed the handles as far back as the perinæum would alion, and tried to bring the forehcad and face below the pubes, by litte and little, every pain, could not fucceed. Thus difappointed, I pufhed up the head with the forceps to the brim of the pelvis, turned the forehead to the left fide thereof, and brought the vertex down to the lower part of the right ifchium ; then turned the forehead backward to the concave part of the facrum, the occiput below the pubes, and delivered the head and body as in the former cafe.

Thofe cafes in which the vertex prefents with the forchead to the groin or pubes, happen but feldom. If the head is finall, it is commonly delivered with the labour-pains, becaufe the external parts, viz. from the os coccygis to the fronum labiorum, will frequently ftretch down fo much as to allow the forehead and face to come out from below the pubes; and if the pains fall off, and the wuman becomes low and weak, the forceps will affit where the painsare infufficient. But if the head is large and fqueezed to a great length, thofe parts will feldom fretch fo much as to allow the delivery to be performed in that manner, either with the pains or forceps, without the danger of tearing the perinæum, and even fometimes the vagina and rectum, into one cavity; befides, if the head ftops there a long time, the child is frequently lof by the long compreffion of the brain, exclufive of the danger from bruifing and inflaming the parts of the woman; to prevent all which inconveniences, it is better to help in time, and deliver, if poffible, according to the above method; efpecially in thofe cafes where you cannot alter the wrong pofition with your hand, or one blade of the forceps, or turn the child and deliver by the feet.

## $C A S E \quad V$.

## Communicated by Dr. Burban.

THE woman had been in ftrong labour for many hours, after the waters were difcharged. As the os uteri was not fufficiently open, he adminiftered opiates from time to time, which refrefhed her much; but after waiting a long time, and the woman growing weak, and falling juto faintings, he tried to dilate the parts during every pain; and at laft found, that what obit ructed the head's advancing, was no other than the forehead being to the pubes. He then introduced and fixed the forceps along the ears, but could not move or alter the furchead to the fide and back part of the jelvis; yet, by dint of pulling with great force, he at dalt delivered the head as it prefented. The child was alive, and the mother recovered.

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He fent me an account of two other cafes, in which the head prefented fair, but as the women were much fatigued and weakencd before he was called, he delivered each with the foreeps, and faved the children as well as the mothers. One of the women was violently cramped in her limbs when he introduced the forceps, and the other was attacked with a flooding.

## COLL L C T I O N XXIX.

Laborious cafes of women delivered by the forceps, the vertex prefenting, the car to the pubes, and the head ligher in the pelvis.

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C_{0} A \cdot S_{0} E \quad I
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IW'AS called to a poor woman, who had been deferted by her midwife, fo that I received but an unecrtain account of the cafe. I was told in general, that fhe had loot a great deal of blood, and that her midwife had fatigued and wrought on her very much. I found her pulfe very weak, her countenance pale, and cold fweats on her extremities. The mouth of the womb was largely opened, the membranes were broken, the head was fmall, and down to the middle of the pelvis, the occiput to the left ifchium, and the ear toward the right groin. I was told that the labourpains had all along been trifling, and had entirely left her after the waters came off. As the flooding was moftly abated, I ordered her to take fome broth, or brown caudle, to fupport and nourith her. Having fent fer thofe who were under my inflructions, we attended fome time to fec if the labourpains would return, but to no purpofe. Being afraid of cenfure if the fhould die undelivered, I thought it was proper to fupply the place of the pains, hy affifing the delivery with the forceps, efpecially as fhe had formerly bore children, and the head was fmall. 'The ears being to the pubes and facrum, I kept her on her ficie, and applying each blade of the forceps, brought down the occiput to the lower part of the left ifchium, and turned the forehead backward to the facrum; then I delivered the head by turning the handles of the forceps forw rd to the pubcs, the thighs of the woman bcing kept afunder by a thick pillow, placed betwixt the knees, at the fame time fupporting the perinxum with one of my hands, to prevent its being toren. 'I hus the patient was fafely delivered of the child, and afterward of the placenta; for though the continued long weak, the at leng th secovered, The child appeared to have been dead three days, the lips and frotum being livid.

## $C A S E I I$.

IWAS called to a woman in Parker's-Lane, who, as the people about her alledged, had been in laloour eight days; they faid three midwives had attended and left her; that fhe was very poor, and in a ftarving condition. I found the head of the child, in time of pain, pufhed down with its vertex to the lower part of the left ifchium: but after the abatement of the pain, which was very wcak, it was retracted to the upper part. As this was in the middle of the day, I feat for fome brothand bread from a cook's fhop, in order to refrefh her. I found by her own relations, that the midwives had all tried to deliver her by hurrying and placing her in different pofi-
tions: that the liad got little or no fleep for two nights; that the waters cane off the preceding day, and her pains had never fince been ftronger. Her pulfe was weak and low, but on taking a little nourifhment, fhe recovered fome tirength. After having fent for thofe who were under my inftructions in midwifery, I left her to the care of one of the elder pupils; advifing him to keep her quiet in bed, and to give her from time to time a little broth or brown caudle; for although I found the cafe was fuch that I could deliver her with the forceps, yet I thought it was better to try if fhe could be delivered by the labour-pains, which I hoped would grow ftronger after fhe fhould have enjoyed fome refrefhing fleep, and her ftrength fhould be recruited by nourifhment. I was called again about one o'clock next morning, when I underftood fhe had every now and then flept betwixt the pains, which recurred at long intervals, and were ftill weaker than I expetted, confidering that her ftrength and fpirits were much recruited. I found the head was in the fame lituation, and ftill drawn back as before. After examining more narrowly, I could eafily feel one of the ears at the pubes, the fore-part of it bcing upivard and toward the right fide. Perceiving the head was not large, I told the attendants, that the delivery feemed to be retarded by the contraction of the uterus before the fhoulders, and the weaknefs of the pains, which had not force fufficient to overcome that refiftance; that I did not queftion, as fhe was now ftronger, they might in time be fufficient without any other affiftance; but I thought it a pity to keep her longer in fuch a fituation, as I could eafily affift with the forceps, by pulling along the head by little and little every pain, and preventing it from being afterwards retracted. Accordingly I kept the patient on her fide until I applied the forceps, as in col. xxvi. No. ii. cafe iii. then tied the handles together with a fillet, and turned the patient or her back, as in col. xxv. No. i. cafe i. Thefe previous fteps being taken, I pulled gently during every pain, until I brought the head a little lower, and could turn the forehead from the right fide of the pelvis to the facrum; after this change was effected, I continued to affift and bring the head lower; and the parts below were gradually pufhed out with the head in form of a large tumour. This being the woman's firlt child, the franum felt very rigid, and was ftretched with difficulty; and the perimæum and parts about the fundament and os coccy gis felt fill very thick. As I continued to keep down the head and affift by pulling during every pain, thefe parts were more and more ftretched, and became thinner'; and the os externum was at laft fo much dilated, as to allow the head to pafs and be delivered, as defcribed in the laft-cited cafe ; but more than half an hour clapied after the head was brought low down, before the os externum was fo much dilated that I durft venture to pull up the head from the perinxum, which I was afraid every time I pulled would crack and give way; for it was now as thin as a piece of parchment at the celge, and was lengthened to more than three inches.

## $C A S E$ III.

ABOUT feven in the morning I was called to a woman near the Seven Dials. The midwife told me, that when fle was called the preceding evening, fhe had found her in pretty ftrong labour-pains; that about tivelve the waters came off; immediately after the difcharge of which the patient was thrown into violent convulfims, which went off and rcturned three or four times; and the had dozed and lain llupid betwixt the fits. I examined, and found the head of the child lying nuch in the pofition deferibed above; only
only the had was lower down, and the occiput to the under part of the right ifchium. I could alfo plainly diftinguifh the lambdoidal crofing the end of the fagitt:l future, the head fqueezed to a longinh form, one of the parietal bones riding over the other, and the fontanel up at the middle of the left ifchium. During the time of my examining fhe was thrown into a fit, which lafted near a minute, and acted much the fame as a labour-pain, by pufhing the head a little lower, though it returned gradually to the fame place, as the violence of the convultion abated. The midwife had not obferved this circumfance in time of the former fits, but told me that it had continued in that pofition without advancing for two or three hours. As the woman's puife was quick and full, I ordered her immediately to lofe eight ounces of blood; and defired the midwife to fend for me if the convulfions fhould return and the delivery be much longer delayed. The woman was now quitc infenfible, and did not feem to anfwer or take notice even when we called to her aloud. I was again fent for about nine, when the midwife informed me that the fits had returned oftener and with greater violence. I found the head in the fame pofition, but about an inch lower, and I now could feel the ear at the pubcs. I tried to ftretch the os externum gradually every now and then, to fee if it would bring on a labour-pain, but to no purpofe. In about twenty minutes fhe was attacked with another fit, which was ery violent, continued longer than the former, and had much the fame effects. I then confidered, that although it was probable the repetition of thefe fits might act in the fame manner as labour-pains, and deliver the child, yet the continuance of them might ftill more and more endanger the life of the woman. Therefore I eafily ftretched the os externum as fhe lay on her fide, and introduced the forceps as in the former cafe; and as I found the head was large, I alfo tied the handles of the forceps, and turned her on her back. After I had brought the forehead to the hollow of the os facrum, and was beginning to deliver the head in a flow manner, fhe was attacked with another fit; and as the os cxternum eafily yielded, fhe was fafely and foon delivered. The fits did not return; fhe fell into a plentiful fweat. 'The flupidity gradually wearing off, fhe next morning recovered her fenfes, and was agreeably furprifed to find herfelf delivered, and the child alive.

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C A S E \quad I V .
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BEING fent by a rclation to fee an unfortunate woman, who was pretty old, and in labour of her firf child, I found the was in a low and weak condition, partly from grief and anxiety, and partly from having been exceffively fatigued by the midwife, who wanted to hurry over the labour as foon as polifible. The inembrancs had broken the preceding day, and it was now about five in the morning. I found the head prefenting, and down to the lower part of the pelvis, though it had not begun to puth out the foft parts in form of a tumour. I could not diftinguih the pofition of the head from the futures, the hairy fealp being fo mucli fwelled. However, I juiged that the forchead was to the left fide of the pelvis, from fecling a part of the head preffed frongly againtt the lower part of the right ifchium, and floping upwards to the midde of the left; I coyld but jult reach the tip of the ear at the pubcs with my finger, the licad was fo large, and fo ftrongly compreffed againtt that bone.

I was informed that the pains liad been very ftrong, though now they were weak, and recurred at long intervals. Her pulfe was fuak, and the
was taken with faintings and ficknefs at her fomach, which produced violent retchings. Thefe, however, fupplicd the place of labour-pains, and affited the delivery by forcing down the head. 'To encourage thefe cforts, as well as to recruit her ftrength, I directed her to drink cvery now and then a little warm wine and water; and in this manner fhe proceeded for about: an hour, when finding the head liad made hut fmall progrefs, and being af raid that her ipirits would fail, I thoulght it was moft expedient to call in the affiftance of the forceps. After having, gradually dilated the os externum, as fhe lay on her left fide, I tried to introduce my finger between the head and the pubes to the os uteri, in order to guide the point of the blade; but finding there was not room for both, and being afraid of hurting the bladder, I turned her on her back, fo as that fhe lay in the fame pofition and was fupported in the fame manner defcribed in col. xxv. No. i. cafe i. with this difference, that as the feafon was very fevere, I ordered a veffel with hot water to be placed under the bed-fide, that the warm fleams might mitigate the cold, to which fhe was more expofed in this than in the other pofition.
Having fully opened the os externum, I turned the back of my hand down toward the facrum, and raifed or fcooped up the head gently to the upper part of the pelvis ; and now with my fingers I felt the right ear backward, and the pofterior part of the neck at the right fide; and diftinguifhed that the pelvis was not difortet, though the head was large and fqueezed to a great length. Thus informed, I introduced one blade of the forceps at the back part before I withdrew my hand ; then infinuating the other at the left fide towards the left groin, I moved it gently to the face below the pubes, and over the child's ear. The inftrument being locked, I preffed the occiput from the right ifchium with two fingers, whilc I gradually turned, as I pulled, the forehead backward to the facrum, and delivered the woman with the fame precaution I had obfcrived in the fecond cafe of this collection.

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C A S E S \quad V . \text { and } V I .
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BETWIXT elcven and twelve at night, I was called to a woman by a midwife, who told me the patient had been two days in labour; that the waters had been difcharged the preceding day ? that there was a crofsbone, which pricvented the child's head from coming along, and liad been the occafion of her lofing two children before; and that, as the pains were grown weaker and the woman was much fatigued, fhe had defircd the relations to demand my affiffance. I found the head pretty rearly in the fame poofition as that defcribed in the former cafe, though higher up; but as I did not think the woman in great danger, and learned from the different accounts that fhe had been put too foon upon labour and was ovcr-fatigued, I defired fhe would lie quiet in bed, without forcing down, cxccpt when fhe nas obliged by the pains. She complained of great pain at the juncture of the offa pubis, as well as behind, where the offa innominata join the facrum; and her pulfe leeing low, and the labour-pains weak, I prefcribed the following cordial and anodyne mixture:-R Aq. cinnamom. fimp. Jufs. Pulv. caftor. gr. x. Sal volat. c. c. gr. vi. Syr. e meconio jfs. M. fumat. cochlcar. II fratim, et repet. ormni fermihora.

In conferuence of this profeription, fhe lay quict and nept between the pains, fo as to be much recruited by fix next morning, when I received another call. The head feemed to be but fimall, although it was fqueczed down to a conical and flat form. As fhe had formerly loft two children, I
refolved to attempt the faving of this, efpecially as I could eafily feel the ear at the pubes. Having gently dilated the os externum with my left-hand as the lay on her left fide, I raifed the head to the brim of the pelvis, and with my fingers felt that the whole obftruction proceeded from the projection of the upper part of the facrum with the laft vertebra of the loins; at the fame time I felt the buck part of the neck at the right-fide. After I had withdrawn my hand, I waited fome time to fee if the pains, which were but weak, would force the head lower down; but finding it did not advance, I introduced one blade of the forceps at the right fide of the fac rum, along the back part of the child's right car, in order to avoid the projection of the laft vertebra of the loins, then infinuated the fecond blade before the left ear, at the left groin of the mother, and as I brought down the head, I turned the forehead to the facrum. This alteration being effected, I unlocked the forceps, and fixed them over the ears to prevent the child's head from being marked at the temples; and pulling flowly during every pain, fafely delivered the patient of a live child.

I affifted in a fimilar cafe; the woman was taken in labour, and began to flood violently; but the difcharge abated when the membranes broke, and the patient being weak, I deiivered her pretty much in the fame manner defcribed in the preceding cafe.

## $C A$ E VII.

MY attendance was befpoke to a woman who had been ricketty in her youth, and was very much diftorted. The labour at firlt proceeded in a gradual manner, the membranes pufhing down and dilating both the os internum and os externum before they broke; but after the waters were difcharged, the pains ceafed for fome time. Upon examination, I found the pelvis was narrow and diforted; and with my finger felt the projection of the laft lumbar vertebra; the pains, however, gradually returned and grew ftronger, and the child's head advanced flowly. I did not confine her to any particular pofition. I had been called at ten o'clock at night ; the membranes broke ahout four in the norning; at fix in the evening fhe began to be vcry much fatigued; by this time the head was fqueezed into a conical and flattened form down to the lower part of the pubes; and I found by the futures that the forehead was to the right ifchium. I now confined her to her bed, that fhe might not be over-fatigued; and fhe took her pains, lying fometimes on her back and fometimes on her fide.

About three o'clock in the morning the head, fqueczed to a great length, had advanced to the lower part of the pelvis, where it was fo firmly locked, that I could not introduce my fingcr at the pubes, to feel the ear. But the patient being exhauted and weak, I introduced the forceps in the manner defcribed in cafe $v$. and tried to move the head fo as to turn the forehead to the facrum. Thefe endeavours proving ineffectual, I withdrew the infirument, and waited till about fix o'clock, when the head was preffed a little lower down, then having recourfe to the forceps again, I fucceeded, and fafely delivered the woman, as in cafe ii. and v . yet the complained yery much of the diftention and contufion of the parts. As for the child, it was dead ; and its death, in all probability, occafioned by the long compreffion of its brain. Its head was fqueczed to a very extraordinary length; a circumfance from which I at firfi imagined it was lower in the pelvis than it afterwards appeared to be.

## $C A S E$ VIII.

AMIDWIFE, who had formerly attended a woman of a fmall fize, in a lahour which had been very tedious frons the difficulty in bringing along the head of the foetus, which was Atill-born, the head being comprenfed to a prodigious length, and the woman's life grcatly entiangered; in order to avoid confure, and prevent as much as in her lay the bad confequences that might attend her fecond labour, fhe liad recourfe to my affittance. The patient being a poor woman, I went, accompanied by three of my pupils, an Ifound the child's head pufhed down but a very little way into the pelvis, the forehead relling upon the left fide of the upper part of the os facrum, and the hind-head againit the right groin. We likewife felt the fagittal future running along toward the left of the os facrum, and the hairy falp of the foctus very much tumified.

The patient being laid on her back, and her breech brought to the bed's feet, I opened the os externum flowly, and pufhing up my hand along the fide and pofterior part of the pelvis, felt the left ear of the child, by which I kne:v the forehead was toward the back, though a little to the leff fide of the woman; I at the fame cime felt the upper part of the facrum and loweft vertebr. of the loins projecting fo far forward as to reach within three inches of the offa pubis. 'I he pains being ftill pretty ftrong, I waited fome time to fee if the head would advance, but it made not the leaft progrefs; the pains and patient grew weak, and the uterus was ftrongly contracted. As the former child had been lof by the long preffure on the brain, I refolved to try the forceps; and Thould that method prove ineffectual, as I feared it would, to open the head and deliver with the crotehet. Having therefore introduced the fteel extractors, which on this occafion I preferred to thofe made of voond, I fixed them along the fides of the ears; and pulling downward, at firt, with a good deal of force, when I found thc head defcend to the lower part of the pelvis, I turned the forehead into the hollow of the os facrum, fo that the hind-head came out from below the os pubis; then directing one of ny pupils to prefs the flat part of his hand againft the perineum, which was very mueh ditended, I raifed up the forceps, and pulled the head halt-round, forward and upward, on the outfide of the pubis. I afterwards delivered the body of the child, which was of a fmall fize, and the lower parts were befmeared with meeonium. One blade of the forceps had been fixed along the fore-part of the ear, and refted on the temple, while the other extended along the back of the left ear to the cheek; and the impreffion which they made was very inconfidcrable. As for the woman, the recovered much better than I could have cxpccted. When I afterwards introduced my hand to deliver the placenta, it went up with difficulty; and I was then confirmed in the opinion that the diftance between the projection of the lower vertebra of the loins and the os pubis did not exceed threc inches.

I had before this occafion contrived a particular kind of wooden forceps, with which I had delivered three patients; but I now fubftituted flee! cosered with leather in the room of wood, which is not fo durable.

## C O L L E C T I O N XXX.

Of laborious cafes from the prefentation of the forehead or face, in which the women weve delivered by the forceps.

[Vide Part i. Book iii. Chap. iii. Sect. iv. No iv. and Tab. xxii. xxiii. xxiv.<br>xxv. and xxvi.]

## $C A S E S I$ and II.

IW A $S$ called by a midwife to a woman in Windmill-Strect, who formerly ufed to have very quick labours; but this had been very tedious, from the wrong prefentation of the child's head. The midwife told me fhe felt fomething like the cyes toward the patient's left groin. When I examined in time of a pain, I found her information true, and that the forehead prefented, with the face to the left fide and the fontarel to the right. In this fituation I underfood it had fuck for a long time, without making the leaft progrefs, although the pains had been ftrong and frequent. While fhe lay on her fide, and took fevcral pains, I confidered the cafe at leifure. As the felvis was large, I refolved, if poffible, to alter the pofition of the head; and fhould I fail in that attempt, turn the child and bring it footling. But, afier having dilated the os externum fo as to adnuit my hand, I found all my efforts ineffectual, either to raife the forehcad to the left fide of the pelvis, that the veitex might come down to the other fide, or to retu:n the head into the uterus, fo as to deliver it by the feet; for the uterus was fof frongly contructed as to foil all my attempts. Thus baffed in thefe endeavours, I introdnced onc blade of the forceps along the left ear at the pubes, and the other on the oppofite part at the facrum; and began to turn the face backward to the left fide of the facrum, that the vertex might come out from below the pubes; but recollecting that the vertex would be tuired fo far up between the thoulders as to render the delivery difficult, I reduced the face to its former fituation at the left fide; and bringing the head by degrees lower and lower, very eafily turned the face and chin to the fpace below the pubes; then holding the handles of the forceps toward the patient's belly, delivered the child, whofe forehead was raifed in a conical form, while the back part of the parietal and occipital bones were fqueezed flat. I tried with my hands to mould it in a better fhape; but it had been fo long comprctied, that I could not alter the form.

I attended in a cafe where the face prefented. The waters had been feveral hours difcharged, and the midwife told me, that the head had ftuck a long time in that polition without advancing in the leaft. When I examined, I found the chin to the lower part of the pubes, and the forehead to the os facrum. The patient being grcatly fatigued, and the force of the pains very much abated, I refolved to allift as foun as poffible with the forceps, in order to deliver the child, which I knew to be alive; for, in examining the fituation of the head, my finger flif ping into the mouth, I felt it move its tongue and lower jaw; though I did not mention this circumflance to the mother, that the might not be overvhelmed with anxiety, in cafe it Thould be atterwards ftill-born. The ears being to the fides of the pelvis, I caufed the patient to be laid fupine acrofs the bed, as in col. xxv. No. i. cafe i. and having gradually dilated the os externum, endcavoured to introduce the fingers of my right-hand to the os uteri, at the left fide of the
pelvis; but I could neither reaeh that part nor raife the head to make more room for my fingers. Then I tried to infinuate a blade of the forceps between the head and my fingers, in an imaginary line, with the fcrobiculus cordis: but finding a confiderable 1 etiftance, and being afraid that the biade wouli pafs on the outfide of the os utcri, I withdrew the inftrument. However, after two or three trials, in whieh I kept the point elofer to the head of the child, I effected my purpofe, and introdueed the other blade on the oppulite fide in the fame flow and cautious manner. Then loeking and tying the handles together with a fillet, J began to pull during every pain, and as I pulled with my right-hand I preffed down the chin with two fingers of my left. The perinxum and parts below were now pufhed out in the form of a large tumour; the anterior part of the neek being brought down to the lower part of the pubes, I turned the handles of the forceps toward that bone, pulled the head upward fo as to raife the parietal and occipital bone from the baek parts, and bring them flowly with an half-round turn upward chrough the os externum; and, at the fame time, I kept my left-hand firmly preffed againit the perinzum, in order to prevent its laceration. I afterwards delivered the body of the ehild, whofe faee was livid and very much fwelled, though the ecehynlofis went off as the tumifaction fubfided. 'The form of the head, winich was fquezed to a great length, I altered a little, by prefling the vertex and forehead between any hands.

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ABOUT nine o'elock in the morning, I was called by a gentleman who had formerly attended my lectures, to a woman in lahour, and found the child's face prefenting. He told me a midwife was employed to deiiver the patient, but his attendance had been befpoken in eafe any extraerdinary incident fhould intervene ; that the cafe having turned out a preternatural pofition of the head, his affiftanee was follicited, and he had that murning made feveral unfuccefsful attenjpts to raife it into the uterus, and briag the child by the feet.

As 1 could not accompany him immedintely to the place, the midwife, in the mean tine, ealled in another practitioner, who, when I arrived, propofed that the woman fhould be delivered with the whalebone and fillet. Upon examination, I found the face prefenting, about two-thirds of the head do:wn in the pelvis, which I coneluded to be large, beeaufe her former labours had been quiek and e.fy, and the chin at the lower part of the right os ifchium. I therefore gave it as my opinion that the might be eafily delivered with the foreeps; but defired the other gentleman to take his own way, if he thought it a better expedient. Upon his deelining the tafk, and the other's requeft that I would lay tie woman, I eaufed her breeeh to be moved to the fore part of the hed, as the lay on her right fide, and a pillow to be placed between her knees, which were held up toward the abdomen. Thefe previous fteps bein's taken, I introduced the fingers of my righthand up to the vagin?, berween the child's head and the os faerum, until I felt the os uteri, and infinuated one blade of the foreeps along the ear, holding the handle down toward the chin, that the blade might go up in a line to the vertex, which was above the brim of the pelvis to the left fide. As the point pafied the os internum, I withdrew my left-hand, to allow room for turning the handle back.ward to the perinxum, that $I$ might the more eafily pufh the point forward, and follow the convexity of the faerum. Taking hold of the handle with my left-hand, 1 introduced the fingers of
my right, betwixt the pubes and the child's head, to the os uteri, and infinuating the other blade betwixt the head and my fingers, gently pufhed it within the mouth of the womb; but as it met with fome difficulty, I withdrew my fingers to give inore room, and preffing the point clofer to the head, introduced it flowly, and with great caution, that the bladder and os internum might not be bruifed.

Both blades being thus introduced in the fame diretion, and the handles locked together, I pulled gently, moving the head from car to ear, until it was brought lower down into the pelvis; then," with the affiftanee of two fingers preffed above it, I turned the chin and anterior part of the neck forward, from the lower part of the right ifchium to the fpace below the pubes, fo that the forehead was at the fame time turned from the left ifchium to the lower part of the facrum and coccyx: lafly, I moved the handles toward the pubes, and delivered the woman of a child, whofe face was fwelled, and whofe head was compreffed like that deferibed in the former cafe: the long comprefion had rendered the arms paralytic for fereral days, though this misfortune was foon remedied by frictions and embrocations.

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C A S E S I V . \text { and } V .
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IW A $S$ called by a midwife to a woman in labour, and found the child's face prefenting, and fo exceffively fwelled, that I at firlt miftook it for the breech; but, on farther examination, I felt the mouth and chin soward the facrum, and the fontanel at the pubes. The midwife told me that the waters had long becn difcharged; that notwithiftanding a fuccefion of frong labour pains, the head had made no progrefs for feveral hours; and that as the pains had greatly abated, the delired the relations to demand farther affiftance; at the fame time the gave me to underftand that the woman's former labours had been quick and eafy. Her ftrength and fpirits being exhaufted, I eneouraged her with hope, and refrefhed her with a glafs of warm winc ; then directing them to place her in the pofition deferibed in the fecond cafe of this coilection, I gradually dilated the os extetnum. This dilatation being effected, I introduced the fingers of my right-hand betwcen the faerum and the chin, and raifed the head to the upper part of the pelvis; but found the contraction and refiftance of the uterus fo great, that I could not pofibly turn the child and bring it by the feet. I then introduced the blades of the forceps along the ears, holding the handles as far back as the perinæum would allow, that the blades, being in a line with the middle face between the umbilieus and ferobiculus cordis, might be nearer the vertex, and have a better hold of the head. Having locked the handles, I endeavoured to bring the head lower down, but could not move it ; then I tried to turn the chin, firit to one fide, and then to the other; failing likewife in this attempt, I pufhed up the head, moving from blade to blade, and turned the chin to the upper part.of the left ifchium ; but as I again endeavoured to bring down the head, the ehin fluck fo fart, that I was afraid of training the lower jaw, and obliged to puth up the head a fecond time with the forceps. I now introuluced two fingers above the chin, and pulling the foreeps with my left-hand, brought it down to the lower part of the ifchium, and turned it, with the fore part of the neek, to the fpace below the pubes; then fanding up, and pulling the handles toward the abdomen, delivered the head, which was greatly tumified. Nay, after the body was delivered, the child lay a long time without breathing, or giving any figns of life.

Some time after the foregning cafe, I was called to a woman who had boen long in labour, and found the face prefenting with the chin to the lower part of the facrum, though a little to the left fide; indeed, the face was fo low down, as to protrude the parts of the woman in form of a tumour, and her pains were by this time much weakencd. The weather being extremely cold, I allowed her to continue lying on her fide, though a fupine pofition would have been more convenicnt; and caufing her breech to be moved a little over the bod-fide, while her head and fhoulders lay toward the other fide, I introduced the forceps, as in the former cafe: but finding it impracticable to raifc the head, Iwas obliged to pull it along in the time of every pain, as it prefented. The parts between the coccyx and os externum were gradually extended by the facc and forehead of the child, and at laft yielded, fo as to allow the vertex to come out from below the pubes; then turning the handles of the forceps toward the bone, I delivered the woman fafely of a dead child, which was, in all probability, lott by the long compreffion of its head in the pelvis.


# S M ELLIE's MIDWIFERY. PART THE THIRD. 

## A <br> C O L L E C T I O N <br> 0 F

## CASESIN MIDWIFERY。

## COLLECTION XXXI.

Laborious cafes, in which the head of the child prefented, and the child was delivered with the affinance of the hand, blunt-hook, or crotchet.
[Vide Part i. Book iii. Chap. iii. Sect. v. Tab. xii، xvi, גxviii, xxxix.]

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A dropfeal bead opcised suith ibe fieflars, delivered by the labour-pains quilf the affitance of the band; the other evith the blunt-book.

号MIDWIFE fent for me to a poor woman, and allowed me to bring one of my pupils as an affitant. The patient had been all night in frong labour; and, after the membranes were broken, the midwife alfo told ine, that the fufpected the head prefented wrong, having found the fontanel turred to the pubes. At firft when I examined, I was of her npinion, and imagined this pofition retarded the delivery; but introducing my finger backward toward the faerum, I found a large open fpace alfo betwixt the bones of the head. Both the midwife and affiftant being fenfible of the fame, I told them, that the difficulty of the eafe was occafioned by the head being dropfical, and fo much diftended, that it would not pafs, unlefs the hairy fealp was foreed out with the contained waters, or perforated, to allow their difcharge. Hiving again examined in time of a few pains, and finding the hairy fealp did not puth down, that the pains grew weaker, and the patient being feized with feveral fainting fits, I afo thought it was wrong to delay the delivery any longer. I had her laid aerofs the bed, with her breech a little over the fide, and, in time of a pain, introduced swo fingers of my left hand into the vagina. Thefe I preffed againft the open fpace betwixt the bones of the cranium; then, with my other hand, introduced the points of the feiffars along my left, and betwixt the two fingers, to prevent their hurting the woman. The pain abaing, I waited till another returued; and when it was at the fronga eff, I perforated the fcalp, by pufhing the point of the fcilars through the integuments.
integuments. The waters immediately gufhed out, about three pints, in a full ftream. The head being thus emptied, was forced down into the vagina; and this being her firft child, it was in a few pains more delivered. During thefe, however, a pint more of water was fqueczed out. As the pains were weak, I affited, by pulling at the opening with my fingers. The child had been dead feveral days.

The fame midwife called me to another wonan, having, by her experience of the forpler cafe, found it was alfo a dropfical head, the bones of the cranium being feparated at a great diffance from onc another. The woman had not found the child ftir for feveral days, and but very weakly for a week or two before; the membranes had broken the day before, the pains had been frequent and ftrong; but the haxd did not advance. In time of a pain, I found the hairy fcalp very tenfe, and the os urcri fully open; when the pain abated, the bones of the craniun felt loofe, and eafily moved within the fealp; which was a certain fign the child had been dead fome time, and that it would be wrong to keep the woman longer in pain. As fhe lay or her fide, I perforated the fcalp, as in the former cafe. Aithough there was a large quantity of water difcharged, and the bones felt in a fhattered condition, riding over one another, yet, even after many ftrong pains, they were only advanced to the middle of the pelyis. I then tried to affilt, by pulling at the opening with my fingers ; but that purchafe not
 affiltance of my fingers, gradually extracted the head; and the body being fmall, was eafily delivered. The child appeared to have been dead fevcral days, from the parts being livid and the fcarf-1kin feparating on the leaft touch.

It is worth remarking, that, although the woman had the confluent fmall-pox in the fifth month of her pregnancy, recovered, and went on to her full time, there was no mark of that difeaie to be found on the body of the child.

## $C A S E$ III.

Alaborious birth, from the large fize of the child and the finallinefs of the. petwis ; delivered ruith the blant-book.

IW A S called to a woman, who had becri feveral days in labour. She had been delivercd twice before with great difficulty, although the children were fnall, and before the full time. The midwife told me, that the it waters were gonc off two days; and although the pains had been very ftrong, pelvis. She had been in hopes that it would have been delivered every ftrong pain, during all the forcgoing night; but as the pains went off, and the woman was grown weaker, fhe advifed the friends to fend for farther alliftance. On examming, I found the pudenda very much fwelled, the head Low in the pelvis, and a large tumour on the vertex, protruded through the os externum. The woman's pulfe was low, intermitting, and like one in a dying condition; her pains were alfo very weak, and returned at long intervals. I informed the friends of the great danger the woman was in, even if the were delivered, owing to lier extrene weaknefs; but told them, as a fipeedy delivery was the only methot to fave her life, I fould do all

As the lay on her fide, I tried to force up the head, to give more room in the pelvis for introducing a fillet over the vertex; but it was fo low down and firmly locked in, that I could not move it. 'This method failing, I ofencd the head with my fciffars, and introduced the blunt-hook on the outfide of them; then I tried to deliver, by pulling the inftrument with one hand, while with the fingers of the other $I$ affifted in the opening; but the hook lofing its hold, I introduced it on the other fide of the head; and as it did not give way as before, the cerebrum was gradually difcharged at the opening, as the head advanced; after which the child was foon dclivered.

On examining the body, I was certain it had heen dead many hours before delivery ; for the lips and fcrotum wcre of a livid colour. 'The firt hold of the hook was on the back part of the neck; the fecond was on the fore part, above the lower jaw. The fwelled parts of the woman were turned black and livid; from which appearance 1 fufpected a mortification was alfo bcgun in the uterus, efpecially as the had complained of violent pains in the abromen the night before; but they had been gone off for fome hours, an I therefore the afiftants did not inform me of this circumfance till a ter delivery.

I was informed next day, that the patient gradually grew weaker, turned delirious, and died next morning. Iam now pretty certain, from many examples fince, that if I had been called the day before, the woman would have becn faved. I am alfo convinced, that if I had known the ufe of the forceps, I fhould not have been obliged to open the child's head, efpecially as it was fo far advanced, and the pelvis not diftorted.

## CASES IV. and $V$. (Laborious.)

IWAS called to a woman who had been long in labour, and had not felt the child ftir for twelve days; fince which time the had been thrown into great fear by a fall from a horfe, and on that account the midwife fuppolee the child was deau. When I examined the cafe, I found the head of tite chisd advanced to the lower part of the pelvis; the difcharge on the clothes wis of a brownifh colour, and had a flong mortificd fmell: the patient was much exhaufted with the leagth of her labour, and her pains were weak.

Havitis placed her in a fupine pofture (as defcribed in collect. xxv. No. i. cafe 2.) I tried to turn and bring the child by the feet, but could not raife the head above the brim of the pelvis. In making this effort, I was convinced that the obfruction of the delivery did not proceed from a narrow pelvis, or a very large head. Wieh a good deal of difficulty, I introduced a fllet, in form of a noofe, over the fore and hind parts of the child's head, and pulled gently every pain, which did not, however, move or alter the pofition; this obligeil me to increafe the force, by which the fillet flipped from its hold. As there was no time to be loft, I opened the head, and tried to deliver it, as in the foregoing cafe; but not fucceeding, I wihdrew the blunt-hook, and introduced aftraight crotchet, by which the head was extracted, after ufing inuch forcc. On trying to deliver the hody, I was furprifed that I could not bring it along ; and fufpeciing the dificulty was owing to the bulk or montrous deformity of the child, I introduced the Atraight crotchet along the breaft ; but it loft its hold, after it had tore open the thorax. I again introduced it, as high as the length of it would allow; and at laft, with great force and labour, delivered the body.

Upon examination, I found the diffieulty proceeded from the belly being greatly tumified after death ; and that the crotehet, at the firtt trial, had ouly tore open the breaft; but, by opening the abdomen in the fecond effort, the fivelling fubfided.

I was called by a midwife to a cafe of the fame kind, where I extracted the head with the foreeps; but not being able to deliver the body of the child, I was obliged firit to tear open the thorax, and afterwaids the abdomen. In this operation I found that the curved crotchet fueceeded better than the ftraight kind.

## $C \quad-4 \quad S \quad E \quad S \quad V I$. and VII.

Laborious ones; the uteres contracted bcfore the Booulders of the feetus.

AMIDWIFE fent forme to an aequaintance of her's, at one of the work-houfes, who had been five days in labour, and was neglectied by the furgeon and midwife of the houfe. The midwife told me, the had been wath her alt nisht; that fhe had loft a great deal of blood; and that the thought the ehild was dead, as the woman had not felt it fir for two days. Cull examiaing, I felt the head low down in the pelvis; but as the was fo very we $k$, I defired the furgeon might bef nt for, who was not to be found. As there was itill more danger in delaying longer, I thought it a fity to :etufe giving all the affiftance pofible. If firt tried to deli iver with the force's; but was turprifed that I did not fueceed, when I found the, hedd was not large, the imrument fo eafily introduced, and firmly fixed : I therefore opened the :, ead; and, in trying to deliver it with the afiift nee of my finj ers ant the blunt-hook on the infide of the fkull, I eouid nut, with all my Itrength, bring it along. However, by extracting the oceipital and one of the parietal bones, I had room to introduce my hand, fo as to find with iny fingers the under part of the uterus ftrongly girt, or contracted round the neek of the foetus: this I gradually dilated; then bringing down ore of the arms, and pulling at that and the fhattered bones and fealp with both my hands, I at latt extracted the child with greater eafe than I expecied.
In pufhing up iny hand to dilate, my fingers paffed the mouth of the wonb that was girt round the middle of the head, when I was furprifed to find anoriner eontraction before the fhoulders. This was the firt time 1 ob ferved that different parts of the uterus would contract fo ftrongly, efpecially the under parc before the fhoulders, a eonftriction whieh has been commonly aferibed in the mouth of the womb. The woman reeovered, contrary to expectation, but was long in a weak condition.

I was called to a cafe mueh of the fame kind, only the head of the ehild was larger, and fqueezed into a longifh form; the woman was alfoftronger, and had not been exhaulted with floodings; but as the had been ling in labour, the head low, and the labour-pains quite gone off for feveral hours, I was afraid, if affiftance was delayed, the would foon be in danger of her life. I firt tried to deliver the head with the French forecps, recommended by Mr. Butter, in the Medical Effays of Edinburgh; bur they were folong and $1 l l$ formed, that I could not introduce them fafely to take a proper hold; therefore, attempted to deliver with the fillet or laek; whieh, though fixed firmly, had no power to bing along the head, though 1 ufed conliderable furee in pul'ing by that hold. This method not fueceeding, I waited tome iime, as the p,ulling the head with the lack had brought on fome pains; but the woman growing wealker, and affuring me fhe had not found the
cliild fir for feven or eight days, I thought it more than probable that it was dead, and the body to tumified as to prevent the delivery. The woman and her frieids being impatient, I thought it was wrong to run too great a rijk of her life, and delivered the child, by opening the head, and extracting the body with the affiftance of the crochcht. I could not deliver the head, even aftor the cerebrum and feveral bones of the eranium were dif. chai ged, until I had alfo opened the abdomen.
The body of the feetus was livid, and fwelled, fo that it had certainly been dead the time the woman mentioned.-She herfelf recovered, as if no fueh difficulty had happened.

## $C A S E$ VIII,

A laborious one; the bead of the child high in a natrow pelvis; delivered rwitb tbe band and blunit-book, or crotchict.

MRS. MUIRHEAD, midwife in Hamílon, fent for me to a woman who had been in fovere labour for twelve hours after the os uteri had been fufficiently dilated, and the membranes broken. On examining, I found the head till above the brim of the pelvis, and kcpt up there by the projection of the lowelt vertebra of the loins, and upper part of the facrum. This ftraitened the paffage, which felt not above two inches and a thalf from thefe bones to thofe of the pubes. I advifed them to keep her quiet in hed, to prevent her being fatigued, and give time for the head to adrance in a llow progreffion, as well as to keep up her ftrength by refrefhing fleeps betwixt the pains. Thefe directions had the defired effect: but having waited from morning to night, and finding the lead was only fuuezed down alitile, in a conical form, into the narrov part of the pelvis, I fent for anouther gentleniat of the profeffion. After we had wasted all night tö no purpofe, oblerving that the patient grew weaker, and that the head did not advanee, we thought it advifeable to attempt the chelivery, rather than to wait longer, and ren too great a rifk of her life: we alfo conflueted, that the pelvis was fo narrow, it would be impoffible to fave the ehild's life; and if it was uncommonly large, it would be even dangerous to the life of the mother. Having plaeed her in a convenient pofition, and in a cautious manner opened the protruded fealp (which was nuch tumifiedj together with one of the parietal bones, with the fciffars, I introcuced two fingers of my left-hand, and tried to pull down the tread in time of the pains; but finding that purehafe was not fufficient to move it, I introduced the blunt-hook firit within the cranium; but this not fucceeding I introduced two fingers on the outfide of the head, at the right fide of the facrum, and, aloag the fanc the hook, with my right hatrd, to the apper part of the fead. Aftcr rèfing a little until a pain returned, and introdicing again the fingers of my left-hand into the opening, I began to pull; but finding this hold of the inflimument forced the head too much againft the pubes, I moved it forward toward the right groin, and then, with my fingers and the hook, pulled the head backward and down toward the lower part of the facrum, at the fame time deffing the woman to force down with all her fffength. To prevent, as much as poffible, any injury to the parts of the woman, I repeated thefe efforts by intervals, which at lat brought along the head, fqucesed in a long and flat form. This be= ing effected, the budy was delivered in a flow namer, bur not without a grood dcal of forcc.

On cxamining the child's head, I fotind the firft hold of the hook was alove the ear, and the fecond on the oppofite fide, above the under jaw ;
the opening with the fciffars was made through the left parictal bonc. My fingers and thumb had to firm a hold, as to aftit in pulliner the head backward from the pubes, while the force above, with the hoo, n:ade the bones collapfe, as the rercbrum was difcharged through the, forated part; but although the head was finall, it required a great deal o: force to bring it through the narrow part of the peivis.

The woman recovered tolerably well, but did not live to have another child.-Vide collect. xxxiv; No. ii. cafe x.

## $C A S E A X$.

A laborious one; the child delieverd avith the curved crotedbet, covcreal with its 乃catb to guard the point.

BEING called to a woman who had been a confiderable time in labour, I felt the head of the child prefenting; about a third part of it being puhed, in a longifh form, into a very narrow and diftorted pelvis. As the patient feemed to be in no apparent danger, and as both herfelf and friends were anxious to have her delivered, and could not be perfuaded to have more patience, I orderes a mixture to amure them, and advifed the midwife not to fatigue her any more, but to keep her as much in bed as poffible.

When I called again in the afternoon, I found the head advanced a little lower, and the woman much refrefhed with reft and fleeps betwixt the pains. Iftill encouraged her to have more patience, and continue to take e:ery now and then fume of the mixture.

I was fent for again next morniug about two o'clock, and found her ftrength much exhaufted; her pains, which had been frequent and ftrong, were now feldom and weak; befides, a fmall flooding began to come on.

The head had not advanced lower, only the hairy icalp was formed, by the long preffure, into a large tumour on the vertex, which prevented my knowing the exact pofition; but as it was ftill high in the pelvis, I jud, 3ed one of the ears was toward the facrum. Although I was afraid that the woman could not be delivered with the labour-pains, yet as fhe imagined the felt the motion of the child, I waited many pains, and tried if putting her in different poitions would forward the delivery; but finding her fpirits flag more and more, and the flooding increafe, I beg nio be afraid of lofing the patient if I longer delayed iny affiftance. Haveng lard her in a proper pofition, as defcribed in collect. xxv. No. i. cafe iii. and dilated the os externum, I forced up the head, to be more certain of its poítion; but could neither reach the car nor back part of the neek with my hingers, without ufing more force, which I durft not venture to exert on account of the flooding. However, this trial made me fenfible of the head heing folarge, that there was no hope of faving the child ly turning and bringing it footling; and it was impofible to deliver it with the forceps. To prevent farther danger, I opened the read of the fortus with the !cifiars; and, in time of the weak pains, tried firf to deliver with my ringers and the curved contchet, covered with its meath within the opening; but although, in inaking differenteffors, I pulled out thefrontal, occipital, and right yarietal bones; I did not fucceed until the crotclict was flipped up on the outicic of the thattered remains, above the under-jaw. So ny finers were cranped, I relted a little; after which untying and bringing down the theath that covered the point of the inftrument, and finding it had a firm hold, I at laft brought out she head.

Having wrapped a cloth round it, I made feveral trials to deliver the body, but could not move it with all my force, until I introduced the fume crotchet along the brealt and belly; and by opening thefe, as in the 4 th cafe of this collction, 1 at laft effected the delivery; and indeed not without much fatigue.

By the livid appearance of the childs body, the woman and friends were convinced that it had been dead for fome time, and that the difficulyy proceeded from the uncommon bignefs, as well as the tumifaction of the atdomen.
'This was the woman's firft child ; I attended her in a fecond and third; her labours were tedious and the chíldren large, but at laft fafely delivered.

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C A S E \quad X .
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The pelvis narrow, and the child large; delivered with two crotchets.

IWAS called by a midwife to a woman in her houfe; the child preiented much in the fame manner as the foregoing; fhe had pretty ffrong pains, and was every now and tlien attacked with fevere fits of vonicing; but as the was in no apparent danger, I ordcred a few draughts with the fpir. Mindereri. Being again called, ard finding that the pationt was growing weaker, and fhe being much fatigued with the yomiting that till consinued, as well as the length of the labour, I at firt tried to turn the child; but, in pufhing up the head, I found it large, and the pelvis fo narrow that the chidd could not be faved by that method. I alfo found that the furceps or fillet could be of no fervice; however, I relled fome time to obferve, if, after ftretching the parts, tiley would allow more room for the head to advance lower ; hut finding no alteration, and fhe being attacked with faintings, I immediately opened the head and tried to deliver with the blunthook, as in thic former cafes, bit not fucceeding, and as the forehead was at the left fide of the ; elvis, I introduced one of the curred crotchets aiong the left fide of the facrum, ahove the under-jaw; finding tliat purchale, pulled the head againt the pubes, 1 introduced the other at the oppofite fide of the facruin, and moved it gradually over the occiput of the footus to the right groin of the woman.

Finding that both the inftruments had a firm hold, and locking them to-: gether in the fane manner as the forccps, I began and pulled with greater and greater force, which brought down the head lower in the pelvis; but as it fopped there, I unlocked the crotchets, and pulled by the one that was at the right fide, by which it was forced backward towarl the facrum, and delivered. Although I ured all poffible caution, yet it required fo great force at the laft pull (this being the firft child) that the perincuum was a little rent; but by the prudence of the nurfe it recovered without the woman's knowledge.

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C \quad A \quad S \quad E \quad S \quad X I \text { and XII. }
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The face of the child prefonted; the bead low in the pelvis, and deliveredquita the crotebets.

IRECEIVED a meffege from a gentleman of the profeffion, defiring me to come and affift him to deliver a poor woman, and to bring two pupils with me, which the patient had confented to, to make me foine recompace for my trouble. He had been with her all night; her pains at
firf were ftrong, which growing woaker, he tried feveral times to turn the child and deliver by the feet, but not fucceeding, and being much fitigued, he had recourfe to my alliftance. I alfo tried the fanc method to bring the child footling, turning the woman upon her knees and elbows, according to Daven'rr's advice, that the preffure or force of the mufcles of the abdomen might be dimiaifhed : but afier feveral trials, I could not move the head fo as to introduce my hand into the uterus.

The face was much fwelled, and the chin being to the facrum, I introduced the forceps along the ears at the fides of the pelvis; but after feveral effurts, colld not move the head lower, or alter the chin fo as to turn it to the groin or pubes. I afterwards tried to open the head with the fciffars at the os frontis, which prefented at the pubes; but the bones were fo thick, that I could not make an opening fuficient to allow a difcharge of rhe cerebrum.

All thefe different methods failing, I introduced the two curved crotchets, one on each fide, which tore open the bones of the cranium; then the contents vere evacuated, the head was diminified, the foetus delivered, and the woman recovered.

A midwive fent from one of the courss at the Seven Dials for me, or one of my oldeft pup.1s, to affift her in delivering a poor woman there. As I was then engaged, Mr. Potter went; and he finding the face of the child prefenting, and the patient exhaufted with the length of the labour, endeavouted to turn the child; but not facceeding, he fent for Mr. Chapman, who had been longer with me: he likewife attempted to turn the child, and deliver with the forceps, but failing in his endeavours; my affitance was required. When I arrived at the houfe, the midwife told me that the woman had formerly eafy labours, and that fhe at firt im gined the breech of the child prefented, and had waited a long time till her patient's ftrength began to fail; but at laft me found her miltake, and that in place of the breech the head prefented, and had ftopped in that pofition for nany hours; on which account fhe had defired farther affititance, to fave the woman's life. 1 found the face much fwelled, and the chin to the left fide of the os coccygis. In trying to raife the head, to give more room for introducing a blade of the forceps, I fcle it fo firmly locked, that it was impoffiole to move it. As I did not certainly know whether the child was dead, and being defirous to fave it, if alive, I with fome difficulty introduced one blade of the forceps over the left ear at the left groin, and the other at the sight fide of the pelvis of the woman, and right ear of the ciild. After urying feveral times to deliver the head with that inftrument in time of the weak pains, and not fucceeding, and being afraid that the patient would lofe her life if not foon relieved, I introduced the two curved crotchets, an delivered her in the fame manner as in the former cafe. The head was fmaller, and not llretched to fo great a length; it came cafily out below the pubes, without my being obliged, in the extracting, to turn the chin below the fhare-bone. The crotchets had made a large opening in each of the parietal bones near the vertex, which allowed the greatelt part of the contents to cyacuate, fo that the head was diminifhed, and came along with lefs difficulty.

The woman complained afterwards of great pain, both at the facrum and pubes, which feemed to proceed from over-ftaining the ligaments of thefe bones; but by keeping ler quict, and proniuting plentitul fiwcats, the at laft recovered.

CASE

A laborions one; the pelvis narrow, the bead large; delivered zuith the crotcluct.

AMIDWIFE called me to a chairman's wife, who had been delivered four times by different gentlemen, who could not fave any of the children. On examining, I felt the head of the child above the brim of the pelvis, and kept forward over the pubes by the jutting in of the upper part of the facrum and the laft vertebra of the loins, which formed a very acute angle. Alchough the woman had been three days in ftrong labour, yet fhe feemed to be in no danger ; and as the had got little fleep, I ordered her a draught with tinct. thebaic. gt. xx. and fyr. e meconio $z_{i j}$. and defired fhe might be kept as fill as pofibie.

Being called again next morning, I found the head advanced a little lower in the baron ; but as her pains were ftill good, and as the had got litile fleen with the former draught, I ordcred the fame to be repeated; and leaving one of nyy pupils with her, delired him and the midwife to fend for me if they found it necefiary. They fent for me about eleven at night, giving tne notios that the patient had flept every now and then betwixt the pains, which were ftrong ; but as they were now abated, the woman much exhaufted, and no hopes of the delivery, they thought my affitance was neceffary. Near half of the head was now fqueezed down in a flat form at the diftorted brim of the pelvis. By my encouraging the patient, and giving her fome warm wine, her ftrength and fpirits were recruited, and the pains grew ftronger. I attended feveral hours, in hopes that the head would advance lower, and that if not delivered with the pains, yet there might be a chance of faving the feetus with the forceps; for it would have been impofible to have brought it alive by turning in fo narrow a pelvis. Finding at latt the woman and pains grew weaker, and that the head ftill continued in the fame pofition, the patient alfo begging to be relieved, and calling upon me, it polfible, to fave the infant, I thought it would be cruel to delay my affifance longer; and refolved to do all in my power to fave the mother and the child allo.

As the lay on her left fide acrofs the bed, I gradually fretched open the os externum, and introducing the:fingers of my left-handalong the left fide of the facrum, found the jutting in of the lower vertebra of the loins kept the bulk of the head forward over the offa, pubis; I perceived alfo the head was large and much offified, and that the os frontis was to the left fide of the pelvis. Although I had fmall hopes of fucceeding, yet I tried if the child pofibly could be faved by delivering , with the forceps, and firft introduced the fhort $k$ ind ; but the difortion of the pelvis prevented their taking a proper.hold; and when I attempted to extract, they inipped off the head; then.I introduced a longer pair that were bent to the fide. Wide collect. xixxiv. cafe $x$, and fupplement to cafe $:$.

As one of the ears was to the pubes, and the other above the projection of the diftorted bones at the back part of the pelvis, I was obliged to fix one blade over the os fromtis, and the other over the os occipitis, by which means I obtained a firm hold, as the bending of the forceps firted the curvature of the facrom; but as the biggeft part of the head was fill above the hrim of the pelvis, it was not in my power to move it down from that potiti n. finding it was in vain to try this method longer, and being afraid left the paits of the woman fhould be fo bruifed as to uccafion a mor-
cification, I withdrew the forceps, and refolved to ufe the laft refource and moft difagreeable method, to fave her life.

As none of the futures prefented fo as to enable me to make an opening through onc of them, I was obliged to make a perforation with the fciffars through one of the parietal hones, into which having intruduced two of my fingers and a crotchet, I eadeavoured to deliver; but not having a fufficient hoid, I withdrew the initrument. Recoilecting, that as the forehead was to the left fide, a perforation would be much eafier made at the fontanel and fagittal future, 1 introduced my fingers and curved crotchet, with the farne precaution as before. The laft vertebra of the loms jutted in fo much, that I was obliged to move the infrument more toward the pubes; the point turning a little to one fide, I moved it again clofe to the head, to prevent its hurtng the patient. When I began to pull, the infrument began to !lip, ant the point again to alter, on which I advanced it much higher than before, and placed it right; then I began to extract frit in a gentle manner, until I found there was a firm hold; afterwards, with mueh fatigue and force, I delivered the head; although not before the frontal, parietal, and occipital bones were extracted. In this operation I was obliged to alter the crotchet feveral times, and the laff fixture of it that fucceeded was on the lower jaw. Not being able to deliver the hody with iny hands, I was obliged to tike the affiftance of the crotehet to diminifh the bulk of the body alfo. The woman recovered well, confidering the length of the labour, and the force ufed before the could be delivered.

## $C$ A S E XIV.

A delivery zuith the crotchet; defcribelin a letter from Mr. R. P: dated W. S 1 k ,

ACCORDING to your defre, I fend an account of a late occurrence in the branch for which 1 am indebted to you for infructions. I hope you will favour me with an anfwer, and your opinion of the following cafe:-_Abour a fortnight ago, a poor woman, come :o her full time of a fecond child, by accident received a fall, which occationed much uneafincfs; but no fymptoms of labour appeared till yeiterday about eight o'clock in the morning, when the nembranes broke, and the waters difcharged in great quancity. At three in the afternoon the pains came on pretty falt; the midwifc was fent for ; and, as the fys, finding things above her reach, fent in an hour after for an old pratitioner, who lyed in the neighbourhood, and who, upon the fcore of a litte profpect of gain, fent away the meffenger. He cane to me about fix or feven; I went wit in him; I found, on examining, a large arm iat the paflage, and the head which I thought arfovery big, prelensing with the forehead fidewife, buts turned a little toward the os pubis. The pains had enturely ceafed; I put her in a right polition, to try to turn the chilit: with fome diffieuity Introduced my hand, to fearch for the fect, but found none near Miy hend was very ftrongly preffed wirh a prodigious ftrictus and comprefion of the parts; however, ' got to the groin, and found the lieg" and feet extended up in a fraight line, fo as I could not fofibly sach them. I then returned to the head, and endeavoured to push it upward, but the preflure was io great againft me, that if found it impracticable. Itold them the dificulty, which the midwife likewife affirned; and being at a litule paufe, the propoled calling a neighbouring furgeon, who had fome little knowiodge that
way. As I was a flanger, and newly begun to practife, I was glad to have onc to confult with in this dangerous cafe. When he came, I told him every thing that had happened; and, alter examining, "oncluded, that it was impofible to cinliver by turning. We then agreed, as it was uncertain whether tiic child un cead or no:, to try one blade of the foreeps, which I pafied up under the os pubis with fome violence; but receiving no advantabe from llis, I gave him the fame to hold, and introduced a crotchet, as I thought, into the eye, but it proved to be the mouth; and, at the time wien he preffed the head from the os pubis, I extricted. My hold hroke one or twice; till at laft, 1 fuppore, wing in the maxilla inferior, we fu.cceded in the attempt. Some little loouing had appeared all the while; I forgol to mention, that when we came to the defperate work, and found the arm ohirrufted us muci, I twited the fame off from the fhoulder. No figns of life appeared in the child; but it was very large. The woman vas afierwards as well or better th in could beexpected. The uterus, in the attempe to turn, felt as if it had lof its oval or round figure, and feemed as if it inclofed the feetus like a fheath. I was about an hour and a half with her; the waters had been gone twelve or fourteen hours. This, Sir, is a genuine acenunt of a method $I$ as very unwilling to $u f$, efpecially with a crouchet. Yuur anfuer will greatly add to my former obhgations.Qure, Whether an attenpt fhould not have been made immediately when tile membranes broke?

The Anfiwer avas much to the following purport.
SIR,
NO coubt, if you had been ealled in fooner, there would have been a greater probability that you could lave turned the child, efpecially if all the waters did not eome off at once ; but if all the waters came off before the arm and head were Incked clofe in the upper part of the pelvis to keep them up, the difieulty would have been as great at firlt as after. What you obferve about the uterus is right; for when the child's head prefents, and the breceh and legs are extended up to the fundus, the utcrus embraces the child like a long theath, lying up and down in the abdomen; but when the child prefents with any other part than the head, then it is more of a globular ligure, and the child ean be eafier turned. I think you asted very right in tirit making a trial to turn, and when you could rot fucceed, to try if one blade of the forceps would affit, cfpeeially when the arm was down; theugh I feldom find that one blade doss mell fervice, or is fo certain a method as when both are applied. No doubt alfo, as you could not deliver, and the arm was fo big as to hinder your operating, it was neceifary to take it off. You do not mention if you opened the head before you extracted with the crotchet, becaufe this always leffens its bignefs, and allows it to come along with greater eafe; but perhaps that was unneceffary after the arm was out of the way; and it is alfo probable that both blades of the forecps could not be applied before that limb was taken off.

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C \quad A \quad S \quad E \quad X V \text {. }
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11/R. I. was fent for t', a woman who had been feveral hours in labour; ard although the had ftrong pains, the head flill ftopped at the upper past of the pelvis, and did not advance. After pucting his patient in a proper pofition, he introduced both blades of the forceps; :nd having fipped them up on each fide of the child's head, and locked the handles tugether,
he hegan to pull along with a confiderahle force. As the forehead lay to onc fide of the pelvis, he tried to turn it back to the farrun ; but it could not be moved, being fo frmly fixed in the upper sart of th. pelvis. This method not fucceeding, he brought out the forceps, and eiolved to turn the fextus, and deliver by extracting it by the feet. This bei.g the woman's
 during cvery pain, before it could be alared; this being efrec., lie endeavourct to iorce with his hanti the head of the child back into the nterus, fo as to alluw fufficient room to come at the feet. After repeate.: thals, he could not with all his itrength raife the head fo as to pafs his h nd on one fide of it; however, during thefeefferts, he found the latt vertebra of the loins project more furward than cummon.

In confequence of this obfcrvation, he defifted; fearing, that if it fhould turn the child, it would be inpolimble to fave it, on aciount of the great force it would require to bring the head through the narrow pulvis, exclufive of the rifk the motier anght rum of a lacetation of the uterus before the feet could be broughe down. Having fatigue. both the woman and himfelf, he took fome reppite; then opening the head, introduced the crotchet at the baek part of the pelvis, and fixing is above the chin, as he perceived after the delivery, he tried to bring do nn the head; but by this purchafe it was prevented, and forced againf the upper part of the bones of the pubes. Having withdrawn the intrument, he introfucrd it along the fide of the pelvis, and moving it gently to the pubss, fixed the point on the ficie of the occiput : there finding a frm trold, he infin: ad iwn tingers of his other hand into the opering; then pulliog and exertang great furce with botin hancis, ne at hat delivered the head, and the body frollo ved with litule difticulr. The ;ratient was frong, an? behavel with sü + coume all the time, though fe comulaner of great pain in the parts: the was not lacerated in the !eat, and recovered much fooner and better than le expected. He obferve!, that the opening was throuph one of the brezonata; that his fingers, when introduced, were vio!ently fqueezed a thi liead cane down, and defired my opinion of his managenent of this, as well as the other two safes he had fent me, which were more fuccefoful.

## Anfoce to the abour betcr.

## SIR,

YOUK fucceeding fo well with the forceps in the two cafes, where the heads of both ehildien were come down to the lower pari of the pelvis, I am afratd ran you into anerror in trying them too $\therefore$ on in the lalt. You write me, that the head was high in the pelvis; th it it as the woman's lint cni'd; that the had on'y been tever I hours inftent of days in labour ; was ther, g. and had vigorous pains; and that althoush you fuppoted the pelise was narros, yed the head was brought along with ti eaflittance of the crotcher; that the opening was fmall, and the body $\because$ fily deliveret. All theie a.cumbances planly how, that you whe tht to hive waired with p.ationce to obferv: what thele grood patus woull lave done ; for if the petwis is a.... it takes a long time before the head cambe moulded to its torm, ant $\because$ inad through it, more efpecially in a irth child, where the os ureri, wrina, and external pats, are more risid, and commonly take up more bere that". I am certain, whan you atented ms, in all the courfe, ! nfited muct on
 knowing from experience, that young practitioners are atier to a w thefo than in the pretermatural; and I always hegged them to wtendeycl; dubu-,
as it was too common for the gentlemen to neglect coming, except in the preternatural, or where it wasabfolutcly neceffary to ufe initruments. Befides, the attending anold prastitioner, where labours arc lingering and doubtful, teaches us low long to allow them to go on withont endangering the patient, and when it is abfolutely ncceffary to give more cffectual afintance. I afure you I have been oftencr puzzled in thefe, than in any other: for, as in'other parts of furgery, it requires more fkill to prevent, than to perform an operation.

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C A S E S X V I . \text { and XVII. }
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$\tau_{\text {evo cafes deiareredevith tbe crotchet; from Mr. }}$ J. at $D$.

IHAD the honour of aitending your lectures. When I left London, you was fo kind as to defire me to let you know if any particular cafe occurred to me in the practice of midwifery, or any in which I found any difficulty. I have met nothing new but two cafes, in which I found great difficulty. The, one was whlen the arm prefented without the labia, the fhoulder was far advanced, and the head and feet were firmly locked high in the pelvis. The woman had been fome days in labour. I endeavoured all I couid to get at the fect, but it was not in my power. After opening the chett and abdomen, I was obliged to bring aray the child double, which was pretty eatly done, as the child had been fome time dead. The woman recovered vary well.

The othercafe was where the head was far acivanced into the hollow of the pelvis, but fluck at the fhoulders above thefe hones. I did endeavour to deliver her with the forceps, having introduced then twice. They would not hold, which I thonght was owing to the loofenefs of the bones of the fkull. The child had been fome time dead, and the woman long in labour, and in a low liag. I delivered her with the crotehet. I told leer friends I did not think fhe could live till fhe was oblivered, but fhe lived for half an hour after.
$C A S E$ XVIII.
The beadprematurely opened ly a practivioner; mentioned in a letscr from Mcl. B. and L. of $B$.

SIR,

$A^{s}$S we derive all our littlc knowledge in midwifery from you, we hope you will think u:c have a right to confult you in any thing relative to it ; therefore have font for your infpection, and our fatisfaction or improvement, a cafe which happened at Sudbury, attended with the following circumfances: The wonan was rather of a robuft ftong conftitution, large, fraight, and fecmungly well proportioned. She was in labour ahout fix or feven hours. pains very fevere, but not sery frcquent, nor any figris of flooding; at which time fhe fends for one who pretends to practile midwifery (more from impatience and inclination, than any fort of necefiity) who fancicd, as foon ats he came, that fomething muft be immediately done, and thereforc procecded to fhow his inimitable dexterity, by making the wound you now fee, with a common pair offciffars, as foon as he could poffibly reach the unhappy labe. We hope you will give us your opinion candidly, as you have always done hitherto, whether you think the child might have been faved, or $v$ as treated according to the rules of att. We apprehend the child's face was to the mothicres right iilum, and not very low down; confequently, as Mr. Oaid obicrves, we canot fec any material ufe this opening could be
of, as no crotchet was cmployed, the contents not evacuated, nor the npening large enough for the futures to collapfe much, he at laft bringing it along with one of his fingers. We both hope, for our own fatisfaction and improvement, to have your opinion whecher we have made a right judgment. We are, with great pcfpect, fir, your's, \&c.
P. S. Your opinion returned with the foctus as foon as poffible, will give great fatisfaction.

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T b_{e} \text { anf-wer }
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## GENTLEMEN,

I Received your's with a box. After examining the child, and confidering your Icter, I cannot help thinking that the gentleman was too hatty in the operation. The woman frad been fafely delivered before, at this time was ftrong, had ftrong pains, only fix hours in lahour, the head whien opened coming along only with the affiftance of his thagers in the opening. Thefe ftrong pains, without the cerebrum being difciarged, or the head! fyueczed into a longith form, fhow plainly that they might have becn fufficient for the delivery. The defign of $\mathrm{o}_{\mathrm{j}}$ ening is to let out the contents, that the hed may be dimininhed in its bulk whicn ton large to pals; and if this had been the cafc, fuch an operation fhould not be attempted, unlefs the worian's pains and frength began to fail. I had a cate, the woman very big with her firt child; the labour began at four in the morning; the had firong pains, and was fafely delivered of a large child about eight at night. The head fuck in the pelvis; was fqueezed to a great length, but by the affiltance of the forceps was faved. However, no pratitioner can judge of thefe matters, uniefs he had been prefent, becaufe he can feldom cily on any accounts, and we ought always to judge on the chariable fide, efpecially as none of us are perfect; and if this gentleman has afted imprusiontly, it fhould be a leffon for you and me to at in a concrary manner, which will always in the end turn to our advantage. The perfon that brought the box was to call next day, if not, you will write to me what is to be done with it, becaufe it will foon fpoil. Excufe this hurrying anfiwer from, gentlemen, your's, \&c.
w. S.

The feetus thefe gentlemen fent me, was as large as any I had fee:, the opening at or near the vertex, and the head of a rou:d globular figure; foom which circumftances it appears that it had not bcen fqueezed down ino the jelvis, but lying above the brim ; that the gentleman, eithrr fron $\frac{y}{}$ :eat ignorance of his profefition, or hurry of other bufinefs, which laft is a mott flocking reafon, did certainly act the part of a bad accoucheur.

## $C A S E X 1 X$.

DR. W. was called to a woman in labour of her enenth child; the mentr brancs had been broken, and all the waters difcharged muy hours. The head of the child was advanced to the lower part of the pelvis, the forehead to the pubcs, and the funis umbilicalis without the external parts, in which the circulation had been obftructed by the preffure of the head, a certain proof that the child was dead.

Having failed in this attempt to deliver with the forceps, he could not, with all his force, extract the head, even after he had of oned it, until feveral bones of the cranium were toret: out with the crotchet.

Having

Having delivered the head, he was obliged to fix the blunt-liook in the arm-pit, io bring down the foulders, and even after that, it required great force to deliver the abdomen, which was much fivelled.

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C A S E X Y
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MR. I, was called to a woman who had formerly been delivcred of four children, nonc of whom could be faycd; fhe at this time had been long in labour.

On examining, he found the pelvis very natrow, the forehead, in place of the yertex, prefented; the arm was alfo protruded through the labia. He waited a confiderable tine to try what the labour-pains would cio with the ufual affiftance of the hand, that the child, if ftillalive, might be faved. As the woman grew gradually weaker, and the pains had no effect, he made a large opening in the cranium; and by dint of confiderable force, extracted the fame with the forceps.

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C A S E E X X I \text {. and XXII. }
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## Communicated in a leiter from Mr. H. dated C.

THE woman's pelvis being fimall, the had been delivered in a former labour with grcat difticulty ; on which account, when he was called to attend at this time, he waited many hours, in hopes that the pains wonld force the head lower down into the pelvis. At lait, the patient, all on a fudden, was taken with frequent faintings; her ftrength failing, and the pains growing weaker, he was afraid of dclaying his affittance too long. As the head was 100 high to attempt allifling with the forceps, the felvis too fmal, and the woman too weak to venture turning, he perforated, and made a large opening in the cranium, from which iffucd a large quantity of blondy ferum; after this difcharge, he, with the affiftance of the weak pains, and his fingers in the opening, deliwered the woman, and no bad confequence enfued.

He was called to a woman in labour of a firtt child. The midwife informed him, that the membranes had been broken, and the paticnt in a lingering way for five days, but that the had now grown weak, and the pains, that had been frong, were entirely gone off. As the head prefented, he firft tried to turn, and deliver in that manner, then he ufed the forceps.

Both thefe attempts failing, he opened the head, introduccd a crotchet with great caution, and brought out fome of the bones of the cranium ; at lat he was obliged to introduce a curved crotchct on each tide, which had the defired effect. After delivery, on examining the child's body, it plainly appeared to have been dead many days, for the belly was of a livia colour, and the fearf-ikin tripyed off in the handling.

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\begin{aligned}
& C \text { A } \\
& \text { In a letcer from Mirr. }
\end{aligned}
$$

H$\mathrm{E}^{\prime}$ informs me, that fince the attending my courfes of midwifcry in London, he had becu callicd to many cafes in that branch of bufinets, and was fucceffful in all of them except the following, an account of which he now fent me.

The face of the chihd prefented at the lower part of the pelvis, the forelead to the right ifchium, and the nembranes had been broken feveral hours before his arrival. He firt cndeavourch to puith up the head fo as to bring the child footling, but it was fo wedged in the bones, that he could nor move it. He next ried to deliver with the forecps, which allo difappointed his expectations; at latt he was driven to the dernier refource, that of ulminifhing the head.

A he could not perforate the boncs of the face and forehead, to inake an opening through theie parts, he introduced a crotchet above the temporal bone, and at leath, after fix hours fatigue in trying thefe different ways, he delivered the patient. He obferves, that in time of operating, he feverad times called to mind an expreffion which he once heard me ufe, viz. "That Itudents thould never think themfelves perfect, for after all the initructions that could pofibly be conveyed, there were many things in midwifery which could only be learned by practice and obsirvation : and that care., would fometimes occur which would puzzle and foil the bett practitioners." As my correfpondent mentions nothing of the ftvength of tre woman, and the force of the pains, I take it for granted, that he did not begin to operate till there was no hope of delivery by the effurts of nature, as the methods he ufed to effect dolively, fhould never be attempted hut in the lafe cexiremity. What furprifes me, is the great length of time he was at work, and the fatiguc he anderwent before he could deliver the patient, unde is bededifted a long time betwist every trial, and only extracted in a flow manner, and by intervals.

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C & A & S & E X I V . \\
\text { From Iir. } & B-\text {, dated } B-.
\end{array}
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## 31 R,

IW AS called to a woman who had been extremely hearty during her pregnancy, was indulged in eating even to eycefs, and was uncommonly big. When the was in lavour, the midwife had promifed a fpeedy delivery from nine in the morning till ten at night. Whan called, J found the tead prefenting, and inragined in a good fituation to afint with the torceps; but after introducing them, I could not with all my ftrength move or deliver the head, neither could I pulh tep my hand into the utcrus to deliver the child by the feet.

I next tried to extrat the head with a crotchet; this proved minuccer ful alfo; at haft, after four hours working to no purpofe, and a flooding coni. $g$ on, I perforated the faull, and delivered the child, and the woman recovered.
I beg. your remarks, and your opinion, if waiting in fuch a cafe would not have been dangerous for the woman. The child was very biy, ind we ighed fixteen pounds.

## The anfiver was much to this purpoj:.

s 1 R,
AF゙「EK examining all the threecales you fent me, I dount your fuccers in them has been the occalion of your truiting too muchto bood tortune 12 the fourth, where you was ohliged to deliver with the crotcher, which I an afraid proceded from trying both to desiver with the forceps, and to tirn the child before it was abfolutely aecelfary. You do not defribe the fare
of your putient when you was called. If fhe was much weakened and exhaulted from the length of the labour, the pains lingering, and no hopes of delivery from them, you was in the right to try the two firt methods to fave the child; and after thefe, if the woman was in abfolute danger of her life, you are excufeable for having recourfe to the laft expedient. When you found the head would not come along with the affiftance of the crotchet, you thould have opened it immediately, that the contents might be difcharged and the head diminifled. This would have faved the time and fatigue you mention. I hope this unfuccefsful attempt will be a cantion againt ufing the foreeps too foon. Attempts to turn the child with great force, when the head is engaged in the pelvis, and all the waters are difcharged from the uterus, frequently loofen the placenta, and bring on a flooding, fuch as you defcribe.

## $C A \mathcal{S}$ XXV. <br> Communicated in a letter fiom G. L. dated S.

## $S 1 R$,

IW A $S$ called to a woman of fifty years of age, in. labour of her firlt child, with a pelvis exceffively narrow. The patient had been long in labour, was very weak, and the pains had abated. Afier ftretching the external parts, I could not introduce my hand through the bones of the velvis; however, in this trial, I felt, with my fingers, that the head prefented. On opening the hed, more than a quart of fertid ferum was difcharged. I then introduced two fingers, and along them a crotchet, and got a firm hold with the intru:nent on the os petiofum. After haring endeavoured, with all my force, to extract the head with both hands, one at the inftrument, and the fingers of my other in the opening, I could not move it until I introduced another crotchet on the oppofite part of the cranium; by pulling at both thefe inftruments, fome of the bones were loofened, and eame away with the crotehets. I then with the fciffars cut in pieces the whole of the cranium, which, with two or three fingers, 1 extracted piece by piece; afrerwards, by the affitanee of the blunt-hook, I brought down the thoulder, and feparated it from the body. I was obliged in the fame manner to extract esery part of the child.

## $C A B E \quad X X Y l$.

## A letter from a pratitiontr in middevfory, in Loudon.

 \& $1 R$,AY O U N G gentioman called mo to a poor woman in St. Gifes's, at eight o'cloch at night, and informed nee, that he and fome others had been fent for by a midwife about an hour before ; that the woman had been feveral days in labour, and was feemingly much exhaufted. 1 went immediatcly with him to the place. The gentleman, as the hairy fcalp was tumifed, imagined thet the breech prefented, but, upon examination, If found it was the head with one of the hands, and I perceived the pelvis of the woman was very narrow. She told me, flo had been delivered twiec before by gentenen, of dead children. Upon this information, and as fhe ftill had frengthand frecuent fimall pains, and complained that fie had enjoyed no fleep for two mights before, 1 ordered hes an opiate. This precaution being then, we left her to the care of the midwife, defiring the patient
might be kept as fill as poffible, in hope the might get fome reff. We were again called carly next morning, and found her quite worcn out with the pains and want of fleep, and the head of the fwews ant in the lealt adranecd. Being afraid, if I delayed the delivery longer, that in mortifieation might foon invade the parts of the woman, from the enntinued pieffure of the child's head, I opened this laft with the fciffars, and enlarycd the perforation. This being done, I introduced the curved erotehet within the fkull, mounted with the fheath, to prevent the fhrp point hurting the patient, if it fhould nip in puiling. Having deftroyed the fructure of the cerebrum and cerebellum, that they might pafs off, fo as to diminith the head, and finding I had a good hold in the infide with that inftument, I puilled with one hand at that, and with the fingers of the other in the opening, by which means I extracted both the parietal bones; but although I exerted all my ftrength, and a great part of the contents were difcharged, yet the head was not moved an inch lower. Failing in the above atternpt; and finding I could not introduce my fingers, to direct the fharp erotchet on the outfide of the head, on account of the narrow pelvis, and the arms filling up the vagina, I was obliged to twift off the limb from the fhoulder. This was pretty eafily effected, as the child had been for fone time dead, which plainly appeared from the fkin Itripping off from that member. After removing the arm, I even then with mueh difficulty introduced my fingers, and along them the crotchet, and got the point fixed above the ehin; then Fulling with great force, and with both hands, in the fame manner as before, the head began to move down within the projection of the diftorted bones; and I continued pulling it till it was entirely delivered. The body followed, without the ufe of the crotchet, but not without ufing great forec. The diftancc, fo far as I could judge, did not exceed two inches and a half from the jutting forward of the upper part of the factum to the pubes. Although the woman had fuffered fo much from the length of the labour, as well as from the great foree ufed at the delivery, yet fhe recovered better than could have bcen expefed, and is now quite well.- He alfo writes in the fame letter, that he was ealled lately to a patient about forty years of age, in labour of her firt child. The hymen thut up the paffage into the ragina, and was ruptured by the head of the child, fo that the patient had an ealy delivery.

## $C A$ S XXVI.

ALETTER from a gentleman near London, contains the hiftory of a laborious cafe, in which he honefly owns he prematurely tried to deliver with the foreeps; but the hcad of the feetus being too high in a narrow pelvis, that method did not fuceeed; he then adminitered an opiate, to procure fome reft and allay the violence of her pains, as the had been much fatigued. Being called on other bufinefs at fome diftance, he did not fee her before the following day, when he found her much exhaufted by the labour ; and being again called to another patient, he was afraid of her dying if he did not deliver the child before he went away. As the liead was not advaneed, fo as to promife any fuccefs from the forceps, he was obliged to ufe the difagreeable method of opening the eranium, through a large tumour of the hairy fcalp; after which, with the aflitanee of the blunt-crotehet, he extracted the child, but with greater difficulty than he expected, as it was very large. He takes oceafion to lament the condition of poor wounch who live at a diftance fromaffitance, in the country, and the difinal fituation
of practitioners, who arc feldom called in time, and, even wien properly called, prevented, by a hurry of other bufinefs, from giving due attendance. This is too frequently the occafion of tempting thern to operate, before it is abfolutely neceflary; on which account, he fays, he is refolved to attend none but patients whom he can deliberately attend, and leave fuch cruel methods to more obdurate practitioners in his neighbourhood:

## $C A S E$ XXVIII.

## An account of the files of the os utcri grown together in a woman ruith cbild, by Thomas Simpfon, M. D. profefler of nacdicinc in the

 Univerfily of St. Andruw's.AWOMAN, forty years of age, obfervably narrow hetween the offa pubis and os facrum, had becn four days in fevere labour of her firtt child, when I was called to alfift her. The child appearing to have been dead for fome time, I opened its head, and extracted it, but with great dificulty; its fhoulders and haunches being too large to pafs in the itraitened paffage between the bones. During fome days after her delivery, fhe paffed a great many finall rugged fones by the urethra; and at length, after her urine had been fopped fome time, her hufband drew out of the urethra a large piecc of thick membranous fubftance, three inches in length, and in fome parts two inches broad; one fide of it was covcred with a cruft of fmall fharp ftones, the other fide was inflamed and bloody, which made me judge it to be part of the coats of the bladder 〔eparated; and I was confirmed in: this opinion by introducing a catheter into the bladder; for whenever it touched certain parts of the fides of the bladder, blood came with the urine. The patient continued a long time with a plentiful fuppuration about the pudenda, but we did not furpect that the pus came from the external parts, but only from the exterior, which had been fomewhat lacerated. About three months after delivery the fell again with child, and took her pains after the ordinary period. She continued two days in hard labour before I faw her. The midwife then informed me, that the inner orifice had yielded nothing; I left her half a day, and things remaining in the fame way at my return, 1 examined her condition, and found that the os tincæ had not only not yielded, but that the fides of it were grown together, without any veftige of a paffage; whereupon I afked the affittance of another phyfician, and Dr. Hadduw being called, was, as well as the midwife, fenfible of the cafe being fuch as I judged it to be; wherefore we agreed to make an incifion into the os uteri, but we were fint obliged to dilate the vagina fuficiently, that we might operate more fecurely. We had no fpiculum matricis, and therefore it was neceffary to fupply it by fome other inftruments. We tried to make the dilatation with a pair of long broad-bladed forceps; but they neither hat ftrength to dilate fufficiently, nor did they keep the vagina cqualiy open. After this we caufed two pieces of wood, each three inches long and two and a half broad, to be made, concave on one fide, and convex on the other, and of no more thicknefs than we thought would be fufficient to be a trrong cnough preffure by the neceffary dilatation. When thefe were finely polifhed and greafed, I introduced them into the vagina, with the concave faces to each other; then fiding in the leg, of a $\int_{\rho}$ cu'zma oris between them, and turning its fcrew, I feparated the pieces of wood fo far as we could fee diftinctly the cicatrix of the parts grown together, and could have cafy accefs to divide them; which 1 did by an incilion at leaft

Lalf an inch decp, before I pierced through the fubfance of this part of the womb; then immediately introducing my finger at this wound, I truched the head of the child, and fele the whole circumference of the paffage hard, like a carcilage, which yieldud nothing to feveral throws the had after the incifion, fo that I was obliyed to guide a narrow-bladed fcalpel with my finger, to make feveral incitions into this cartilaginous ring : in doing this, there was not the leaft appearance of blood, and the paticut had no trouble, except what the dilatation of the vagina gave her,

The labour continuing, the palfage dilateil a little, but not fo much as to give any hopes of its allowing the child's head to pafi, notwithftanding the bones of the cranium were over-lopped; and therefore I was obliged to bring away the child as I had done the former. In this birth there swas no liquid with the child, nor did any blool follow it ; it was quite fupple, and had a white chalky cruft over its whole body; fo that we were convinced it had been dcad for fome time. The want of waters was fome furprife, till I recollecled, that, in the time of labonr, the told us they were paffing; at which time I had the curiofity to make ftrict obfervation, and found what the called the waters, paffed by the urethra, which opened externally by three different orifices; this, with her having loft fuch a portion of the bladder formerly, and her being fubject to the gravel, gave me ground to think there was fome communication betwcen thefe paffages and the cavity of the womb above the os tincex, which had allowed the waters to be evacuated. I was the more inclined to entertain this fuppofition, becaufe frequent inflances have been obferved of fones making their way through the neighbouring parts, as happened to a boy in this neighbourhood, who paffed a very long ftone, which had lodged long in the bladder, by the anus, by which the urine had its courfe for fome time after.

My patient, immediately after being put to bed, was feized with a pleuritic fa:n, very high fever, and difficult breathing, which coming on fo foon after her being fatigued feveral days with hard labour, during which fhe fert none, but drank much of every thing in her way, appeared to me rather the caufe of her death in twenty-fou horrs after, than any confequence of the incifion I had madc, for fhe never complained of uneafinefs in thofe parts, nor had any hemorrhage. Notwithfanding all the follicirations I could ufe with her relations, I could not prevail with them to allow me to open her body. -Vide collect. xxxv. cafe viii, x. xvi. and collect. xt. cafe riii. collect. xxxix. No. i. cafe iii.

## C O L L E C I O N XXXII.

Of preternatural labours, in which the legs or brecech prefented in place of the head.
[Vide Part i. Book iii. Chap. iv. Sect. i. ii.---.-Tab. xxix. xxx. xxxi. xxxii. xxxiii, xxxiv. and xxxv .]

AMIDWIFE fent for me to affirt in a laloour. The legs of the foctus were forced down through the os uteri into the vagina immediatcly after the incmbrancs broke, and flec had tried to lring down the child's body by pulling. After ttretihing the os cxternum, 1 intro-
duced my hand into the vagina, and up along the thighs of the child to within the os internum, where 1 found the breaft and chin fqueezed down at the left fide, juft above the brim of the pelvis. I took hold of the feet with my other hand, which were without the os externum, and pulled at them, while at the fame time I pufhed up the breatt and head to the fundus uteri, with the hand that was introduced at firt.
Finding that the breaf eame lower, and that the pufhed-up parts did not return, I withdrew my hand from the uterus, and having wrapped a eloth refond the legs, pulled at them with both hands, till I brought down the breech to the os externum.

As the belly of the foctus was to the left fide of the pelvis, I turned it back to the facrum; and though I tried to deliver without bringing down the arms, yet I found the fhoulders fo large, that I was obliged to introduce a finger over one of them, and along the arm.

This I flipped down gently into the coneavity of the facrum, and brought it out through the external parts with a femicircular turn, to prevent a fracture in the extraction.

Then I brought the body lower, but finding that the head ftopped at the upfer part of the pelvis, I infinuated my hand up along the breaft, and introduced a finger into the mouth, and by pulling gently, brought the forehead into the coneave part of the facrum; being afraid of over-ltraining the under jaw, 1 quitted that hold, and placed a finger on cach fide of the nofe ; then I laid the body of the child on that arm, and by nipying the fingers of my other rand over the fhoulders, and on each fide of the neck, I got the head fafely extracted. The patient was laid on her back acrofs the bed, her breech to the fide, and two wonen fupported her legs ; in delivering, I at laft was obliged to raife up the ehild's body, fo as to bring out the head with a half-round turn upward, to prevent the perinzum being toren, as thefe parts werc foreed outward in form of a large tumour ; by which precaution both the mother and child were fafely delivered.-Vide collect. xxxv. cafe i.

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\mathcal{C} A S E S \quad 1 I . \text { and } I I .
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BEING fent for to a woman in labour, the midwife told me, that at her firt examining, and even after the membranes were broke, fhe could not diftinguifl what part of the child prefented, until the pains forced it lower and lower, and then, both by the difeharge of the meconium and the touch, ihe found that the breech prefented; but having waited feveral hours in expectation of the delivery, and at laft being afraid of the child's life, fhe had recourfe to iny affiftance.

On examining, I found the nates at the lower part of the pelvis, and in a right pofition, with the thighs to the facrum; as the pains were now weak, and expecting it would require confiderable force to deliver the child, I caufed the patient to be laid in a fupine pofition, as in the preceding cafe:

In time of the pains, I gradually fretehed the frenum labiorun with my fingers, then fanding up, turning the back of my hand downward, and introducing my fingers betwixt the breech and the os coccygis, I tried to raifc up the nates, fo as to be able to bring down one or both legs.

Although I failed in this at empt, and could not raife the nates fo high as to allow my hand to pafs up into the uterus, yet this effort gave more room, by fretching the parts, and allowing an eafier paffage for the child, which

I found was very large; and indecd this was the folc occafion of the difficulty:

After bringing down my hand, I introduced the fore and middle finger of cach into the outlide of cach groan, betwixt the thighs and body of the child ; with the affiftance of this hold, and pulling from fide to fide, and upward, to prevent the perinxum being toren, I at laft brought the hips through the os externum, at feveral efforts, and by the afiftance of the weak pains; after which, and with much fatigue, I brought down the arms, and delivered the head as in the former cafe.

Although I ufed all precaution in delivering the head, and indeed exerted lefs force than in the former cafe, yet the child was dead, a circumflance which feemed to proceed from the long preflure of the funis, by its being tumified and fqueezed of a flattifh form near the navel.

I was called to a patient who had been in labour moft part of the night, and did not fend till the membranes were broken. The breech prefented; the thighs wefe to the right fide of the pelvis; the right hip was forced down in the back part, and the left ftuck above the offa pubis. As this was her firft child. I waited with patience, in hopes that both hips would advance gradually, and ftretch the vagina and external parts: but the meconium having come down in great quantity, the woman alfo being much fatigued, and the pains abating about noon, I was afraid, if I delayed affiftance any longer, the child would be loft.

Finding that the delivery was principally retarded by the hip fticking above the pubes, I dilated the os externum a little, and after introducing two of my fingers betwixt the pubes and the hip, preffed and moved it in time of a pain to the right fide of the pelvis: this endeavour immediately altered the former pofition, by bringing the thighs to each fide of the facrum. The child being fimall, was forced lower and lower every pain; the body and head were delivered without my being obliged to bring down the arms, as in the former cafc.

The woman lay in bed on her left fide; and as the licad was fmall, I deliyered it according to Daventer's method, by fixing the fingers of my right hand over the fhoulders, and on each fide of the child's neck, then taking liold of the body with my left, and pulling with both hands backward to the patient's breech, I brought out the occiput and vertex from below the pubes, while the chin was within the lower and back part of the vagina, to prevent tearing the fourchette, which felt very rigid.

## $C A S E I V$.

## A breech cafe, from Dr. Tatbivell, phyfician, of Stamford.

AWOMAN', aged 32 , having gone her time with her firt child, fome fight pains came on, and the waters broke, after which the pains
went off for a fortnight, then came on again, and the fxces of the child were obferved by the miatife canre on again, and the faces of the child
Upon examination, I found onc of the hips preient, but the os internum not being open enough, and the pains only flight, I direetcd fome thebaic drops, with tincture of caftor, and warm fippings, ordering the woman to compofe herfelf, and if any change happencd, to fend to me ayain.

In a fcw hours the pains werc fo increafed, and the os internum fo opened, that whon I was fetched back, I found the nates of the child fqueezed out, which I helped forward to the hams, then got out the legs, and after
giving a quarter-turn to bring the head right in the pelvis, got down the arms, delivered the head, and, with a little affiftance, the placenta.

No pulfation could be perccived in the umbilical cord, though the m:other thought fhe had felt the elild ftir that moming ; but probably the fame peffure on the abdomen of the child, which had brought away the meconi$\mu \mathrm{m}$, fopped at the fame time the eirculation of the navei-itring.

Every thing went on right after delivery, by the help of a few drops ebove-mentioned, and the woman got well at the uiual time.

## $C A S E V$.

IASSISTED in a eafe mueh of the fame kind as the preceding, but was obliged to bring down the body in a different mamer; for vithen ealled, Ifound the breech prefented low in the pelvis, and the thighs to the left fide. The midwife told me that it had been long in that pofition, that fhe could not move it, after repeated trials and ftrong pains. As the patient Lay on her left fide, I tried to raife the breeeh with my right hand, fo as to bring down the legs; but the contraction of the uterus being fo great again't me, I could not move it up fufficiently for that purpofe: however, by this trial I did fome fervice, in opening the os externum, and likewife fele a. pulfation in the navel-fring, as it lay fecure betwixt the thighs, which kept it from being preffed. The ifchium being much lower than the pubes, I durf-not venture to bring down the thighs at that part, neither did Ichoofe to pull the body farther down to inake more room, for fear of engaging the fhoulders too low in the pelvis, which would prevent my turning the fore parts of the child to the baek parts of the uterus; but I turned up the right thigh from the ifehium to the pubes, by which means I eafily got hold of the joint at the knee, and brought down that leg, and after that delivered the other leg in the fame manner. I had tried before this to turn the breeeh with my fingers of both hands, on the outfide of the groins, both backward and forward, but the breeeh being large, and firmly loeked in the pelvis, I could not move the thighs in that manmer either to the facrum or pubes. After I brought down the thighs and breech to the os externum, a flrong pain eame on fooner than I expected, and pufhed down the body to the fhoulders, before I was aware, into the pelvis. After wiapping a cloth round the child's hips, I tried to turn the fore parts to the back parts of the patient, but could not move it till I forced up the body again to the hips; by that means the fhoulders were difengaged, and thebelly yielding eafier, I got it turned backward. I then delivered the body and head, as in the fecond cafe; but the laft coming more difficultly, I was obliged to bring down both arms before I could extract the fame with fafety.

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C \quad A, S \quad E \quad V I .
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IWAS befpoke to attend a woman in her firf child. When I was called, I found that the membranes were pufhed down with the waters in time of a pain, and that the mouth of the womb was very thin, and open about the breadth of half-a-crown. As the pain went off, and the membranes grew lax, I pufhed up my finger farther, and found fome part of the child through them; and although it felt round like the head, yet it was fofter at fome parts than others, and more unequal, whieh made me furpeet, as it was fo high up, that it might be the fhoulder: however, as this was her firft
child, and the parts were very ftrait, and the patient very young, I thought it more advifeable to wait with patience, to let the parts open in a llow and gradual manner by the membranes and waters. This being in the evening, I left her, and called again about eleven that night. The pains had been but flight, and there was but very little alteration in the mouth of the womb; only I found that the membranes were pufhed farther through it. I could now a little more diftinetly feel the part that prefented, and was pretty certain that it was not the head. I wanted the labour to go on flowly, to allow time for foftening and ftretching the os uteri ; I was alfo afraid, if the labour was hurried on too falt, efpecially as I found the membranes pufhing down of a longilin form, that they would break too foon, or before the os uteri was fully opened. I ordered an anodyne draught, and defired her to go to bed, and to take all the relt pofible. In order to amufe her, and keep her from thinking too much upon her fituation, I told her that the labour was feareely begun, and defired the nurfe to fend for me as foon as the waters came off; howerer, as the cafe might turn out difficult for the patient, and dangerous for the child, if not rightly managed, 1 Itaid all nigit without her knowledge, and went to bed in the houfe.

I was not awaked till the membranes broke, about fix in the morning, when I examined, and found the os uteri confiderably more open, and not fo rigid, and the breeeh pufhed down into it, with the thighs to the pubes. The nurfe informed me that the patient had flept betwixt the pains, which grew gradually ftronger; but the had not had any fince the waters began to come off. I defired fle would ftill keep quiet in bed, thinking that now, perhaps, her fleeps would be longer, and more refrefhing, if ine continued any time free from pains. Accordingly the enjoyed a good deal of found fleep, during which fhe had fome flight pains, and fome of the waters were difcharged.

About ten the pains grew ftronger, and more frequent, by which the breech was forced down, and gradually dilated the os uteri to its full extent. I then began to ftretch the os extcrnum gently every pain, that might affift the delivery with greater eafe, to prevent the child being loft by its ftopping too long when come down to the lower part of the pelvis. As the breech advaneed farther, the meconium began to be difcharged. The middle of the thighs being then down at the lower part of the pubes, I introduced my inger betwixt then, up the belly, and felt the funis, with 2. pulfation in it. It then introduced a finger of each hand to the outfide of cach groin, and helped down the hips lower, till Ifelt the hams at the under part of the pubes; then taking hold of one of them with the fingers and thumb of each hand, I brought down the legs flowly, firft one and then tile other.

The limbs being flippy, I introduced a cloth betwixt them and my fingers, to prevent their flipping, and then turned the fore parts of the child to the back parts of the utetus. I had feveral times found, that after I had turned the child in that manner, the forelead, inftead of being backward to the fide of the facrum, was toward the groin, and brought down with great difficulty in that pofition, unlefs I could turn it more baekward by preffing it with my fingers; in order to prevent this difficulty, I turned the loody a quarter more, which brought the forehead backward, as abore, and the delivered 2.5 in the former cafe. The child was alive.

## $C A S E S$ VII. and VIII.

IWAS called by a midwife to a cafe where the brecch prefented much in the fame manncr as the former. It was the woman's firft child, and before I was called the had been many hours in labour after the membranes were broke. The thighs were toward the pubics, and the breecli was come down to the lower part of the vagina : the perinxum and fandament were pufhed out in form of a large tumour by the brecch, which had ftopped there for fome time, and the woman's pains were grown weak and foldom. As fhe lay on her fide, I dilated the os externum gradually during every pain, and when I could introduce all my fingers, I turned the back of my hand toward the perinæum, to raife the breech; but the woman fhrinking away from me, and altering her pofition, I turned her on har back, as deferibed in collection $x x v$. No. i. cafe i. and fhe being firmly held and fupported by affiftants, I proceeded without much interruption.

Having dilated the pirts, I applicd my finger to the outfide of each groin' and tried to help along the breech, but could not move it after feveral efforts. I tried to pufh up the breech and bring down the legs, but could not raife it above two inchcs. I afterwards waited fome time, to fee if the pains would pufh the breech farther, cfpecially after the parts were fo much opened. Finding tooth them, and the affiftance of my fingers ineffectual, and the woman much exhanfed, I introduced the large curve of the blunthook with my left hand, betwixt the fingers of my right, along on the left thip, and flipped the point in betwixt the thigh and the body of the child, tull I found the point paft the infide of the groin, betwixt the thighs; then taking hold of the fmall end of the hook with my right-hand, and applying the fingers of my left-hand to the outfide of the oppofite groin, I gradually broughe the brecch lower ; but finding it again ftop, and that the left hip' was brought farther down by the curve than the right, I changed it to that fide. Atter repeated trials, I could not deliver the breech, nor bring the body fo low down as to manage the legs. I now withdrew the hook, and with great difficulty paffed a garter betwixt the thighs and body, by the help of which the parts advanced, till the joint of the ham came below the pubes; then bringirg down the legs and thighs, and wrapping a cloth round them, with great dificulty I turncd the back parts of the child to the fore parts of the uteris. I tried to give a quarter-turn more, with the hip up toward the pubes, but could not move it farther; I thacrefore began to pull along the body of the child, which required greater force than I cxpceied; but at laft I delivered the belly, which felt vcry large; upon which the fhoulders and head caune cafly along. Although I felt (from my not being able to give the hips the quarrer-turn) that the chin, inftead of being at the fide of the pelvis, was towaid the left groin, yet as the head was fimall, I moved it backward, and with mr finger in the month, brọught the forehead to the hollow of the os facrum, and delivered as in the former cafes. When Iexamined the child, I found that the whole difficulty procesded from its having beca dead, fo that the belly was very much fiwelled, a circumftance which I did not fufpect, as both the woman and midwife had aftured me they felt the child ftir: however, it had been cortainly dead feveral days, for the fearf-fkin was livid, and ftripped off in feveral places.

Peing called to a wonan whofe former labours ufcd to be cafy, the midwife told me that one of the hips prefented; and although the mouth of the womb was largely open, and the patient had beein in ftrong labour, yet the
other hip did not advance, but ftuck above the fhare-bone. I found the left breech pufheid down to the midile and back part of the pelvis, and pretty muen fivelled; and vereived that the thighs were to the left fide, ard the right hip above the i ubes, as the midwite had fail. As the woman had been much fatigued, and her pains were grown weak, I introduced my right-hand, contracted into a conical form, into the vagina, and puthing up the breech higher: made room for my hand to advance along the thighs. toward the fundus uteri; finding the legs up toward the fundus, and fome water ttill remained in the uterus, I eafily folded down the legs, and after I had brought them and the chighs without the os externum, I turned the belly to the faerum, and delivered the child, as in the firle cafe.

## $C A S E S$ IX. and $X$.

IW A $S$ called by a midwife to a woman who was in labour of her firt chiid. The right hip was pufhed down at the right fide of the pelvis; the wnman had been long in labour, a great many elochs had been wetted with difcharges of blood from the uterus; and although it flowed gradually, and in f:mall quantity, yet the woman was confiderably weakened.

As the fore parts of the child were toward the abdomen, I placed her on her lide, and gradually, as in the former cafe, introducing my hand into the vagina, raifed the breech; after I had infinuated it up along the left fide of the child, I food more behind the woman, and turned my hand to the fore part of the uterus; but the uterus being ftrongly enntracted, I was obliged to advance very flowly, dilating as I advaneed, and then could only bring down the left foot. I was afterwards obliged to pufla at the breech, and pull at the foot, alternately, before I could bring down the leg and the thigh. This being effected, I wrapped a cloth round the leg, and took hold of it with my right-hand, while at the fame time I applied the fugers of my left above the right haunch, on the outfide of the groin; and by pulling with both hands, brought down the body, till the ham of the right leg was defcended below the pubes. I tricd to turn the fore parts of the child backward, but esuld not till I brought down the right leg.

Finding the ehild was large, and expecting it would take a grod deal of foree to deliver the head, I altered the woman's pofition by turning her on her back; then wrapping a eloth round the thighs and breeeh, having already turned the fore parts of the child to the back parts of the uterus, I brought it down to ilie houlders; but finding it fopped at the head, I introduced my fingers and $h$ nd along the breait, and difcovered that the obftrution was from the forehead relling againt the left arm of the child, at the left fide of the faerum. I then brought down that arm, introduced two fingeas into the mouth, and delivered, as in the former cafes, though not without a great deal of force; for afteri had got the fingers of my right-hand into the mouth, and laid the chilk'; body on that arn, and taken a firm lold over the fhouhters with the fingers of my left-hand, I was obliged to inereafe the foree every attempt. Being afraid I fhould overftrain the jaw, I withdrew my fingers out of the inonth, and tried Daventer's method, by preffing down the Shoulders, fo as to bring the occiput from below the pubes; the head, however, being too high to be moved lyy that method, I again had reeourfe to the former; but advanced my fingers higher, placing them on caela fide of the nofe; 1 pulled fo long, and witls fo great foree before the head was delivered, that I was fiurprifed to find the child alive.

IW A S befpoke to a woman who had fuffered very much in her former labours from the pelvis being diftorted. When I was called to her about fix in the morning, I found the mouth of the womb largely open, and the meinbranes pufhed down with the waters in time of a ftrong pain. As the pain went off, and the membranes became lax, I felt plainly through them that the head did not prefent, but was uncertain whether it was the breech or the fhoulder; J could juft touch with my finger the projection of the laft vertebra of the loins with the upper part of the facrum. Though concerned that the child did not prefent fair, I was pleafcd to find that the pelvis was not quite fo narrow as it had been reprefented.

About an hour after I came, and before the membrancs broke, I examined and found them pufhed farther down; and as the pain went off, I found that the breech prefented. Placing the woman in a convenient pofition, as defcribed in collect. xxv. No. i. cafe i. with her head and fhoulders lower than her breech, I gradually opened the os externum, and introduced my hand into the vagina as a pain went off. Endcavouring to raife the breech, my fingers broke through the membranes, and as a large quantity of water was retained, I cafily brought down the legs, which were to the back parts of the uterus.

After I had brought down the body to the fhoulders, I tricd to bring the head into the pelvis, by pulling in different directions, viz. upward, downward, and from fide to fide; but finding 1 could bring it no farther, I introduced my finger and hand in a flattencd form betwixt the breaft and back part of the os externum. In advancing farther, I felt the chin and face at the upper part of the os facrum, the forehead retained above the diftorted part formed by the laft vertebra of the loins, and the fore-mentioned bone; I tried to pull the forehead down with my fingers placed on each fide of the nofe, but could not move it ; then I pulled down the left arm of the child, and preffed the face and forehead to the left fide of the pelvis, where there was more room. I made a fecond effort to bring down the head in the fame manncr as before; but as it ftill ftuck, I pulled down the right arm; in a third trial, Ibrought the forehead down into the hollow of the os facrum, delivered the head, and faved the child, contrary to expectation.

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C A S B \quad X I .
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IW A S called by a midwife, and found the brecch prefenting, and the pelv is diftorted. The midwife told me, that the woman's former labours had been very difficult and tedious; but now, as the breech prefented, the was afraid the difficulty would be gieater; obferving, that the had fent for affiftance as foon as the found (after the waters came off) the pofition of the child. As I found the thighs were toward the pubes, I kept the woman as fhe was then lying on her left fide, and brought her breech neares the fide of the bed. Introducing my hand into the vagina, I pufhed up the breech of the child, and advanced along the fure parts of the uterus to fearch for the feet; but finding a greater refiftance than I expected from the uterus and child, and perceiving the head and fhoulders of the woman lay high, I turned her from the fide pofition to her knees and clhows, without bringing down my hand; by which means her brecch was raifed higher than the body: I found the refiftance diminifhed and brought down the legs; then turning her to her back, brought down the body. Afier I had turned
the fore parts of the ehild to the baek parts of the uterus, I introduccd iny fingers to the face, as in the former eafe. Finding it to the left fide of the prejection, at the upper part of the facrum, and the right arm lying before it at the left fide of the pelvis, I firlt brought down that, and then helped down the forehead; but before 1 could deliver the had, I was obliged to bring down the other arm, and faved this child alfo, though a deal of force was uifed to deliver the head.

Fise minutes elapfed before the child breathed, and it continued mueh longer breathing weakly, but by the ufe of ftimulants, it began to ery, and enntinued tu ery inceffantly, till one of the women obferved a large fwelling betwixt the left ear and temple. 'I his I iumediately preffed with my: fingers, on which it ceafed crying ; but in taking them off, it hegan again, anc the fwelling that fubfided on preffure returned. To remedy the eomplant, I dipped a thick comprefs in a mixture of oil, fpirits, and vinegar; an.. apt lying it to the tumour, defired the woman that held the infant, to kecp lier fingers preffed on the place for a long time. When I examined it next day, the fwelling was gone, and it appeared to have been that part which tiopped fo long at the projection of the upper part of the facrum, before the head was delivered.

## $C A S E \quad S \quad X I I$. and XII/.

IWAS called in a great hurry to a woman, and on examining I found the body of the child delivered, and only the head remaining unextricated. The patient was very corpulent, and begged that I would relieve her out of her mifery, and if poffible fave the infant.

I felt no pulfation in the funis umbilicalis; but as that might have been jult ftopped, I immediately, and with great eafe, delivered the head, by introdueing my hand betwixt the neek of the child and the baek part of the pelvis. I flipped two fingers into the mouth, which was to the left fide of the facrum ; by that hold I brought down the facc and forehead, turning them at the fame time a little more backward into the concave part of the facrum ; then placing the fingers of my other hand over the fhoulders, and on each fide of the neek, and raifing up the body, as the woman was in a fupine pofition, I delivered the head, as deferibed in cafes i. and ii. of this collection.
Two of the patient's fifters who wcre prefent, finding that the child was dead, expreffed their refentment againft the midwife, and ordered her out of the room: however, I interpofed, and defired that fhe might firft afiit in laying the woman right in bed; then I begged to hear the progrefs of the labour.

As fhe found the breeeh prefent, and had ifed more foree than is commonly exerted, the friends had been alarmed, but were fatisfied for a little, when fhe affured them that the child came in the natural way, and that the patient and child would be fonn and fafely delivered.

She at firt brought down the body and arms eafily, with the affitance of the frong pains, but with all her Atrength fhe could not deliver the head; and at laft was obliget to own to the attendants that the eliid eame wrong; though not before the had made feveral trials after the firt alarm.

I was called by a midwife, who told me that the body of the child had been delivered an hourago; but not being able to bring out the head, fhe had defired my affitance. As the pains were now grown ftronger, fhe
hegged I would wait a little, and if the patient was not foon delivered, the would introduce me to her. I enquired if the had felt any pulfation in the finh is after the body came down ; the acknowledged that fhe had felt it at firlt, but it had ftopped long ago. She was called into the room in a hurry; and the head was immediately delivered with the pains. About an hour after, I was fent for by the fanc midwife to another woman, where the brecch prefented, and who formerly was ufed to have tedious labours. I had told the inidwife on the former occafion, that fhe had loft the child by not fending fooner, and defired the would never call me again in fuch a manner. This reproof had the defired effect, for fhe fent for me in this cafe, immediacly on the waters coming off, and when he was certain that the brceel prefented. Finding the pelvis narrow, and that the breech did not advance with the afiiftance of the ftrong pains, I brought down the legs; tut as the patient did not lie in an advantageous polition, as deferiled in cafe i. of this collection, I caufed her to be turned to that pofture, and delivered the body and head of the child, as in the two laft cafes, but with greater difficulty than any that I ever delivered in that manner, the child being alive. After the body and arms were brought down, by dint of many repented efforts, I delivered the head, but in the mean time imagined it was inpelfithle the child would be alive, as I found the neck was fo over-ftretehed ; and ifit.had not come along at the laft effort, I was refolved to have ufed the erotchet. . Iftopped in the middle of thefe efforts, and attempted to extract with the fhort Itraight forceps; but the head wa's above the brim of the pelvis, and the curvature of the os facrum prevented their taking a proper hold, fo as to be of any fervice. This was the reafon which prompted ne to contrive a longer kind, the blades of which are curved to one fidc.-Vide the Anatomical Tables. Alfo collect. xxxy.

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C A S E X I V \text {. }
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IWAS fent for in a great hurry to a labour, where the midwife had delivcred the body and arms of the child, but after feveral trials, and the alliftance of the pains, could not extract the head.

The forehead was detained above the pubes. Finding it was not poffible to move it backward toward the facrum, as fhe lay in a fupine pofition. acrofs the bed, I pulled the body of the foetus downward, and at the fame time prefied the chin with the finger of the other hand to the breaft; by pulling up and down with both 'hands, I at laft brought the forehead out from below the pubes, and delivered the woman of a dead child, though not without great force:

I have had feveral cafes, in which the nates prefented, and the children, where fmall; have heen delivered fafely with the labour-pains, efpecially when the fore parts of the foctus were to the back parts of the utcrus, but commonly with more difficulty when in the above pofition.

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C A S E X V \text {. }
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$\mathrm{M}^{\mathrm{B}}$R. - was called to a woman that had mifearried two years before, and fince that hasl been fubjeet to copious difcharges, ligh coloured and foetid. The membranes had been three days broken: he found the pains were but inconfiderable, and fome waters fill drained away during each; being alfo high coloured and foetid. The os uteri was high up, thick,' but Jittle open, which prevented his knowing the pofition of the furtus. As the
pains were faint, the child advanced very little in many hours, yet fhe complained as moch as if fhe had been in ftrong labour; and the os uteri was fo extremely: fenfible, that fhe could not bear the gentlett touch without fcreaming. When the pains grew quicker and ftronger, fle placed herfelf on her knees, at which time he found the nates prefented, and endeavoured to dilate the paffage; but although the pains were vigorous and forcing, the part came no longer, neither could lie apply his fingers to the groins, to help the body along. He then laid her in a fupine pofition, and after introducing his hand into the uterus, with great eafe brought down one leg, and finifhed the delivery. The child at firt thowed fmall figns of life, but aftcrwards recorered.

The mother, foon after delivery, was feized with a flooding, which, notwithftanding all he could do, carried her off in an hous.

Although it is diffieult to judge of cafes at a diftance, yet I think, as the -patient was not wcak, and had frong pains, there was no occafion to force open the parts fo foon to bring down the legs : the child is feldom in danger of being loft before the nates come down to the external parts; for it is fafcr for the patient to allow them to open the os uteri flowly, 'than to endanger its being toren with the hand.

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C A S E X X V I \text { and XVII. }
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## In a letter fiom Mr. Ayer, dated Bofon, Lincolnfire.

$B$ETWEEN eleven and'twclve at night, I was called to E. I. who was fuddenly taken with labour-pains when afleep in bed, and they had broken the menbranes. When I examined, the nates prefented at the lower. part of the pelvis, and the pains being ftrong, I did not attempt to puth up the breech to bring down the legs; I only dilated the os externum, and foon after that, I was able to infinuate a finger into one of the groins; and in a little time a finger of my other hand into the other groin; by which means, and the atifitance of the pains, I drew down the body of the hams, and extracted the legs. Having wrapped a cloth round the extrafted parts, as the face of the child was toward the facrum of the mother, the delivery ivas foon finihed, only it fuck a little at the head, and the placenta adhered to the back part of the utcrus, but came of without mueh trouble. The child did not at firlt feem alive, yet in a little time after began to cry. The patient, after being put to bod, was attacked with violent pains in her hips àd body; on which I was again fent for. As the difcharges were fmall, I fent an anodyne mixture, with Điv. of theriac. and rom. one half of which gave her immediate eafe.-Vide collect xliii. cafe iii.

One of the gentlemen, and one of the midwives, that attended my lectures, were fent to one of the poor women, who was taken in labour in the eighth month of pregnaney. The os uteri was a little open, the membranes were forced down with the waters, and broken foon after they arrived; when finding that the child did not prefent in the natural way, they immediately fent for me. On examining, I found the os uteri thek and rigid ; within it;" on the left fide, an clbow ; and on the right, one of the nates. The patient had, fome time before that, heen much weakened by a quartan ague; her pulfe was low and weak, her body greatly emaciated, and the could fcarcely fipak, or fand upon her legs. Bcing informed that the had taken little nourifhment for feveral days, Ifeat for, and ordered her to take, a little toated bread and warm wine frequently, to recruit
cruit her ftrength, and revive her fpirits. Having fent for my principal midwife, and the relt of my pupils, I defired her to keep the patient quict in bed, which indeed was only a little ftraw, laid in a cold garret. In abont four hours the midwife fent for me; the woman was much recruited by the nourifhment fhe had taken; for befides the bread and wine, fhe had ailfo gor foine broth. Her pulfe was much ftronger, and fhe was able to walk about the room. After waining fome hours longer, and confidering the woman had fornerly eafy labours, I thought it was pity to keep her longer in pain, as there feemed little hope of her being delivered without ifftance; for, in examining again, I imagined what 1 took for the elbow was a heel, and the other one of the fhoulders.
-Having placed the patient on her knces and elbows, according to Daventer's method, not indeed of ehoice, but from neceffity, for want of proper accommodation, and having her firmly fupported by the female affiftants, I gradaally dilated the os externum, and, with fome difficulty, introduced my hand into the vagina. Then I found with more certainty, that the foetus prefented, according to my firf opinion, viz. the hip at the right fde, and the elbow, with the head above it, at the other fide, within the os uteri. This I tried to fretch open; it was then about the width of a crown-piece, and could only reeeive the ends of the thumb and fingers contracted together, in a conical form; but the orifiee fel: fo thick ano rigid, that I could not; by feveral efforts, dilate fo much as to be able to introduce my hand into the uterus. Although the patient bore it with great patience, yet it fatigued her fo much, that I defifted, and was afraid of ufing greater force.

The affiftants feemed much furprifed when I ordered the woman to be again laid down on her fide, and did not attempt any more to deliver the child; but they were all fatisfied when I told them the danger of tearing the uterus, and the woman's dying in the operation from her great weaknefs; and that as there was no flooding, it was much fafer to continue giving her nourihing food; for although the child prefented wrong, yet when her ftrength was recruited, the pains would come on ftronger, by which fome of the parts would be forced down, and gradually dilate the os uteri. As her pains were weak, and at long intervals, I gave her a grain of opium to carry them off, and procure reft, defring one of the miawives, left with the patient, to give her a little broth frequently, and to fend for me and the gupils when the pains came on, and fhe found the os uteri more open. We left the patient at eleven at night, and were called early next morning. By the time three of the gentlemen reached the place, the breech came down on a fudden, and one of the pupils delivered the body and head with great eafe, as the child was fmall. When the reft of the pupils arrived with me, we were informed that the woman had been vifited with pains every now and then, and flept betwixt them, fo as to be much refrefhed ; after which numbers, the pains had fuddenly returned with great vigour, forced down the nates, and opened the os uteri, which then felt foft and yielding. From the livid appearance of the child's body, and the ftripping off the fearffkin, it plainly appeared that it had been dead for many days. The woman recovered, though long in a weak condition.

## $C A$ S XVIII.

AYOUNG woman going with her firft child, of a weakly conftitution, flender, and of a fimall fize, had taken very little nourifhment during the latt munths of her pregnamey, and had fwallowed feveral purging me-
dicines, from a miftaken notion that the was dropfical. Both her hufband and niece, who lived with her, died but a few weeks before the was delivered, which misfortunes funk her fpirits much, and increafed her weaknefs. The labour was very flow and lingering, on account of her great weaknefs. The midwife could not difcover any part of the child, till fevcral hours after the membranes were broken; and then felt a foot, with a thigh laying acrofs, at the upper part of the pelvis. She immediately fignified the danger; upon avhich account I was fent for. On examining, I found it in the fame manner as the midwife had defcribed; her pulfe was weak and low, and the lay on her left fide, with her breech near the fide of the bed.

As the was fo feeble, I chofe firt to try if the body could be brought flowly along in that pofition. Iffer ordering her a little warm wine, I introduced my right hand flowly into the vagina, during the time of a pain. I found the os externum fufficiently dilated, and brought down by degrees the leg and thigh ; but then perceived the child was folarge that it would not be poffible to bring it along, unlefs I could bring down the other leg and thigh alfo. The thigh I had already brought down filled up the pelvis in fuch a manner, that I could not get my hand paf, without ufing too much violence; I then by degrees, juft as a pain was going off, bent the leg to the thigh, and pufhed it up into the uterus. As the woman could not be kept firm in this pofition, neither could I ufe fo fteady and equal a force as to bring down the body and extract the head, as I could do while fhe lay fupine on her back, I had her placed in that pofition. She had not any flooding, except fome little hows, as they are termed by the midwives; thefe are only a few ftreaks of blood, which frequently proceed from ftretching the os internum. I again introduced my hand into the vagina, then paffed it along at the fide of the pelvis, through the os internum, up into the uterus, and within the membranes. I kept my hand there a little to difcover the pofition of the child exactly, which lay with its left buttock, thigh, and leg, over the the brim of the pelvis, its belly toward the mother's, the right buttock to the woman's right fide, and the fhoulders up to the fundus uteri, with its head turned downward to the left fide. I had introduced my left hand, which luckily anfwered beft in this pofition. I then raifed up the buttocks, and turned the belly more to the right fide, which brought my hand eafier to the right thigh and leg of the child, which were extended up along the belly and brealt. I laid hold of the leg, and foided it down along the thigh to the buttock ; then brought it and the other leg into the vagina. The knees and thighs followed; but the child being large and the woman finall, although the pelvis was well fhapcd, according to her fize, the breech and body of the child came along with great difficultyI began to turn the belly of the chidd to the mother's back, before the breech was brought through the os externum; when the breech was turned to the os pubis of the mother, I gave it a quarter turn more, till its os facrum was to the right os ifchium, that this might turn the child's face, that lay to the right fide of the uterus, to the back part. I then turied its os facrum back to her os pubis, and brought along the body and the arms, and delivered the head as directed in the Treatife; but not without a good deal of force. The child was alive, which I fcarcely expected; the mother was fo weak that fhe could give little affiftance to help along the placenta, but it was at laft feparated flowly, and fafely delivered; fhe luckily had no large difcharge from the uterus, but was in a very low faintifh condition for fereral hours.

The only thing that could be done now, was to give her a little warm wine and water frequently, and fometimes a little weak caudle, to nourifh and ftrengthen her weak body. I ordered her belly to he kept moderately preffed with an affiftant's hands, till a bandage could be fafely applied. She was fo weak, that I thought it was better to go on in giving her nothing more than a little nourifhment, efpecially as it faid on her fomach. For fome weeks before, fhe had thrown up mott of her food, and could fcarcely retain as much as to keep her alive; however, I orderd the following medicine; but only to be ufed if the fhould be taken with violent pains or refleffinefs.-R Sperm. ceti. theriac. androm. $\bar{a} Э i$. Syr. croci. q. f. ut f. bolus fumend. cum hauft. fequent. et rep. quarta quaq. hora, vel ut opus fuerit ad duas vices.-R Aqu. cinnam. fimp. 亏̄ifs. Aq. alexiter. fpirit. cum aceto fyr. e meconio. $\bar{a} \cdot 3 \mathrm{ij}$. - The next day 1 found her much better; fhe had got fome relt, and the difcharges were moderate, although fhe had not taken the medicines.

## C O L L E C T I O N XXXII.

Of preternatural cafes; the membranes not broken, or the waters not all difcharged: alfo cafes of floodings and cinvulfions, in which it was abjolutely nece.ffary to deliver.:
[Vide Part i. Book iii. Chap. iv. Seet. iii.]

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N U M B . I_{0} \quad C A S E I
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IWAS cailed in the night to a young woman, and was told by the merfenger, that the was in the utmolt danger from a violent colic. After my arrival, while the mother was telling me about her daughter's illnefs, Iobferved the colic pains returned periodically, and feemed more like labour than the alledged complaint. She was then in bed, lying on her fide, and her back toward the place where I was feated. On pretence of examining her ftomach, I felt the lower part of the abdomen of a round globular figure; and below the integuments, the nterus firm and tenfe, above the pubes, and betwixt that and the umbilicus; then Iexamincd the vagina in time of that pain, and found the membranes forced down with the waters to the lower part thereof. When the pain abated, I felt the thoulder and arm of the footus within the relaxed membranes. Without faying any thing to the patient, I defired to fpeak with her mother and aunt in another room, and as this was an ante-nuptial affair, I told them the cafe, and defired they might hold their tongues at prefent; for if they acted otherwife, it might endanger the patient's life. Having defired the patient to move her breech near the fide of the bed, and תipped a bed-fhect, folded, below her, to fpunge up the moifture, I gradually introduced the fingers of my right hand contracted in a conical form, through the os externuin, which was largely dilated by the membranes, during the interval of the pains. As one of thefe returned, I puthed my hand into the vagina, and againft the tenfe mcmbranes, to break through them, fo as to get within them to the body of the foctus; but they boing rigid, my hand flipped through the os uteri, and up into the womb, on the outide of the membranes; then grafping

## $N U M B$. IIT. CASE I. and II.

## FROM FLOODINGS.

AWOMAN near her full time fent for me, who was feized with flooding and labour, in confequence of being frightened by a fire whicla happened in the houfe, as well as from the fatigte incurred by removing the furniture. When I arr: $\vee=$ d, the fire was extinguifhed; and I found hes lying upon hay in a barn, lofing blood very faft. The mouth of the womb being pretty largely opened, 1 immediatcly broke the membranes, which, with the waters, were puthed down in every pain', and the himorrhage foon ftopped; the paticint was very cold from the feverity of the win:ef feafon, and the thinnefs of her covering. While I practifed in the country, I always carried in my pocket fome fpirit of hartshorn, tincture of cattor, and liquid laudanum, in feparate bottles. Of thefc; with the affifanice of fome braidy and water, I compofed a cordial and anodyne mixture, of whichi fhe took frequently two or three fpoonfuls; and being accommodated with more clothes from the neighbourhood, the recovered her natural heat, and at laft enjoyed a plentifui fweat, and refrefhing repofe. The pains were flowly augmented with long intervals ; as her pulfe and ftrength returned, the labour advanced ; and although it was tedious, the was at latt delivered. Yet her fleep was afterward interrupted by frighteful dreams of fire; and the often awoke in a delirium; fo that twenty days clapfed before fie was out of danger. She had fuckled her former children; but had no inilik after this delivery, and tut a very fmall difcharge of the lochia, thefe evacuations being impeded by the difturtbance of her thoughts. Her greateit danger, however, féeming to proceed from weäknefs, occalioned by the lofs of fo much blood. Ithought the principal object of regard was the circulation, which was kept up by the cordials and reftoratives; and as fhe was every now and then fubject to Thiverings, and laboured under a low weak pulfe, I preferibed repeated dofes of the bark, and the moderate ufe of Fiench claret, from which the found great benefit.

When labour is brought on, and a flooding occafioned by fuch alarms, fo that the patient is exhautted by the hæmorrhage, this is elther diminifhed or entirely carried off by breaking the membranes; and of lite I have frequently fucceeded in floodings that happened before labour, by gently dis lating the mouth of the womb with my finger, fo as to bring on the labourpains, as in the following cafe :-

I was called by a midwife to a woman feized with a flooding in the middle of the ninth month; though no vifible caufe could be affigned for this hæmorrhage, and the had bore children before with eafy labours. As the difcharge was not fo great as to require immediate affiftance, and her pulfe was rather ftrong than otherwife; 1 ordered her to be bled to the quantity of eight ounces, and to be kept quiet in hed. Being coftive, ficc received a clyfter, took frequently two fpoonfuls of a mixture compofed of fix ounce of the tincture of rofes, and about twenty drops of liquid laudanum. The flooding abated, and fhe refted tolerably well that night; but when the rofe to have her bed made, fome large clots were difcharyed with. a little pain, and the flooding returned, though, it was foon reftrained when the lay down again. In this condition the corrinued for fever il days, during which, upon the leaft motion, fome clots, or coaguha, were forced off from the vagina, and tollowed by a frelh difcharge, which, notwith ftanding all our efforts to encourage her, and fupport her itrength, gradually weakencd her conftitution. It returning one evening with greates violence, I was called in a hurry, when I found her low and difpirited,
and her friends in great anxiety and confternation. I had previoully informed the midwife and relations of the imminent danger that threatened the patient, if the flooding fhould not abate, or labour come on; and defired that fome other gentleman of the profeffion might be confulted for their and my fatisfaction; however, thris propofal they declined. Thus left to my own difcretion, and feeling the os uteri very foft, though very little open, I gently introduced the tip of nyy finger in order to dilate it, and defired the patient to affilt my efforis by fraining downward. This method being gradually repeated every now and then, the parts were opened to the breadth of half-a-crown, and I produced fome תight pains that returned of themfelves. Notwithitanding feveral attempts, I could not break the membranes, until gradually ftretchimg the os externum during every pain, fo as to introduce my hand into the vagina, I tried to advance my finger farther up; but not fucceeding, I infinuated the female eatheter; which breaking through the chorion and amnios; the waters were difcharged in great quantity, the flooding immediately abated; and the child's head was preffed down upon the mouth of the wotnb. She now lay eafy for a long time, without the return of a pain, during which intervat the was nourithed and fupported by frequently receiving a little broth; but being afraid that there might be an internal flooding ftopped up by the child's head, I defired her to force down, while I raifed the head with my finger; and accordingly feveral coagula were difcharged from the uterus. I then thought it advifeable to bring on and encourage the pains, by ftretching as before ; and, to my wifh, the parts were more and more dilated, the pains grew ftronger, and at laft the patient was fafely delivered. During fabour I'frequently felt her pulfe, which, inftead of finking; rather grew Atronger.

## $C A S E I I I$.

AMIDWIFE fent for me, and told me that the patient had been feized. with a violent flooding, but labour coming on, the membranes had broken, and the lixmorrhage was abated: fhe had fent for me, becaufe fhe found the navel-ftring in the vagina, and the woman was very weak, and had little or no pains.

Indeed fhe was fo low that I coutd fcarcely feel her pulfe; her lips were pale, and her extremities cold. I found the fonis in the vagina, but could feel no pulfation : the child's head prefented, but was kept forward to the os pubis by the lower part of the placenta, which lay along the facrum; however, the flooding was entirely ftopped.

I immediately directed her to take fome of the folution of portable foup; and hot bricks wrapped in flannel being applied to her feet and hands, in about an hour her pulfe grew ftronger, her extremities recovered their natural warmth, and the pains returned. Finding the head was hindered from advancing by the placenta, I brought down this laft, and the patient was gradually delivered of a fmall dead child: but the continued fo weak, that for many weeks after her delivery, fhe was fearce able to wailk abous the room.

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C A \text { \& } E \quad I V .
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THE friends of a gentlewoman, who had been feized with a flooding the preceding night, fent for me. The midwife told me, that the mouth of the womb was open to the breadth of a crown-piece; that the
placenta prefented; that the pains were very flight and at long intervals; and that the flooding was then more violent than when the was called. I myfelf felt the pulfe was pot fo weak as one would have imagined, confidering the quantity of blood the had loft.

In this patient, who had former!y bore children, the difcharge began to appear in the beginning of the eighth month, returning every now and then when fhe ventured to go abroad; but, by the advice and affiltance of another gentleman, who was now obliged to attend another patient, it had been kept within bounds till this period, which was the beginning of the ninth month.

As fhe would not permit me to examine, I privately advifed the midwife to introduce her hand by degrees into the vagina, and feel all around for the edge of the placenta, at which part fhe might tear the membranes: fhe accordingly felt them at the left fide; and a large quantity of waters being difcharged, the child's head advanced, prefing the under part of the placenta to the right fide. Then the pains increafed, the head gradually dilated the os uteri, and being fmall, defcended lower and lower, fo that in a few pains the patient was delivered. The flooding abated when the waters were difcharged, and was entirely fopped as foon as the head plugged up the os internum. From time to timc I felt her pulfe, which continued in much the fame fate, or rather turned ftronger; from which circumflance, I concluded there was very little, if any, internal hamorrhage; and her ftrength was kept ,up by her taking frequently a tea-cup full of broth, or wine and water.

## $C A S E \quad V$.

ARIDWIFE called me to a gentlewoman, whom fhe had formerly delivered of feveral children. This patient was taken with a fmall difcharge of blood in the beginning of the ninth month, when I prefcribed venafection and a clyfter; after the operation of which, fhe received a paregoric draught. But the difcharge continuing for feveral days, though in a fmall degree, I examined and found the mouth of the womb very foft, placed fo high, and fo far backward, that I could not perceive the placenta prefenting, though I felt through the vagina and aterus that the child's head refted againft the os pubis. As the difcharge did not weaken the patient, nothing was done; but I laid an injunction upon her, to refrain from going abroad. In about eight or nine days from this period, the was attacked with labour-pains, and the flooding increafing, I feceived another call, when I was informed by the midwife, that the mouth of the womb was largely open, that the watcrs had been difcharged immediately before my arrival, that the placenta had come low down, but the could feel no part of the child. A frong pain imnediately fucceeding, I examined and found the placenta pufhing through the os externum; and the delivery of this was immediately followed by that of the child, which was alive, although the placenta came firft. The midwife told me, that when the found the placenta prefenting, the was cautious of touching it with her fingers, remembering, that when fhe attended my lectures, I had obferved, that the death of the child, in flooding cafes, might be owing to its lofing blood from the laceration of the cake.

## $C A S E V$.

BEING called to a patient about the end of the eighth month of her fecond pregnancy, the midwife told me, that the waters had been difcharged two hours before my arrival, and the flooding fopped; that feeling lomething like a fefhy fubliance come down, the had tried to pull it away, on ti, e fuppofition that it was a falfe conception, and that thefe attempts were followed by a large quantity of blood. 'This fubfance, upon examination, I found to he the placenta low down at the os extermum ; and filiding my finger hetween it and the os pubis, I felt the child's head. During the next pain, the was deltvered of the placenta, which was mucli lacerated, and a dead child. I have been concerned in many cafes, where the flooding, when inconfiderable, was eafily fopped, and the woman proceeded to the full time.
C A S E VII.
From Mr. F.W. at T. W.'s, with my anfwer.

SOME time ago I was fent for to a woman after the midwife had made ufe of all her art to no efrect. 'Upon enquiry, I found the had not gone her full time; the membranes were broken, and there had been, and ftill was, a profufe flooding. On touching, I could find no os tincæ. I then introduced my hand with fome difficulty through the os cxternum, but could no readily meet with the os tinca, heing oppofed by a foft flefhy fulffance, which I took for the placenta, and which proved to be fo, as I afterwards found. The child lying fo high, and being hindered by the placenta, I could not get my land teyond the os internum to feel the child, which put me to a ftand. However, having taken out my hand, I kept my countenance as well as I could, ind adv fed the woman to be of good cheer. Now, from the great effifich of blocd, togetter with the foregoing circumflances, I thought it abfolutely neceflary to attempt her delivery, by opening the contracted parts, and turning the child ; but I had ro fooner fat down before her, than providentially the had a ftrong fain or two; and, to my great furprife, the child iu as brought into the "orld (the placenta coming firft) inclofed within its niembranes. This plainly convinced me of the eiror of fome who have afferted, that the placenta always adheres to the fundus uteri ; feeing in this cafe it was the reverfe. With regard to this cafe, the information I fhould be glad to receive is this:-Suprofe thee child had not been born as it was, whether I fhould have endeavoured to pafs by the placenta, or extracted it before the child? And fuppofe part of the os tincre is covered uitt part of the placenta, how to act ?Fide collect, xxxiii, No. ii. cafe iii.

> Anfuer to the fe querics.

I had a cafe fretty near the fame kind; the placenta adhered to the lower fart of the u:erus, and as the os uteri began to ftretch, that part foparated from the placenta, and then a fmall flooding began, When I was called, the patient had fome labour-pains, and on exanining I found the os internum open about the breadth of half-a crown, and the placenta prefied a litte down into it. As the difcharge was not great and ile woman frong, I delayed to deliver until the os internum fhould be more open. Sonie hours after this, I was again ealled: the flooding was pretty violent; I found the os internum fully orened, and the placenta fully preSertitig. I laid the woman on her back, with her thighs raifed; then in-
troduced my hand into this vagina, paffed up by the placenta into the uterus, hroke the :nembranes, and deliverel the child by the feet, by which means I prevented the placenta from coming down firt. The child was alive, becaufe part of the pl.centa adhered to the lower fide of the uterus. I have had cafes where the placenta has come down into the vagina before the child's head, and w is obliged to deliver it firf, but in fuch cafes the child was commonly dead. It appcars in your cafe that the os internum had been fully open, that the placenta filled all the upper part of the pelvis, and that the child being fmall, and the piacenta detached, they all flioped along with eafe, and were fo fuddenly delivered.

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C A S E \text { IIII. }
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IWAS called by Mr. Burnet to a woman in the latter end of the eighth month, who, the preceding night, had been taken with a large he norrhage of the uterus, and had, cvery now and then, fome flight pains. Feeling the os uteri a little open, and the placenta prefenting, I advifed him to dilate gently through every pain; and as foon as he could reach the edge of the placenta, to break the membranes. This he effected in a few pains: the waters were no fooner difcharged, than the flooding ceafed, and the pains growing tronger, pufhed down the child's head, which gradually di!ared the os uteri. But as it paffed, the detached part of the placenta was forced down with it, and actually tore from the reft fifteen or twenty minutes before the child was delivered. We now expected the child would be loft fron this laceration; but, contrary to our expectation, it was alive, and did well; the inother alfo recovered, though fhe had loft a great deal of bluoud, and had fainting fits before I was called.

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\begin{gathered}
C A \quad S \quad E \quad 1 X . \\
\text { Communicated by } M F . \mathcal{F}
\end{gathered}
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BFIN $G$ called to a woman who had gone her full time, and had, for three or four days, been troubled with a flooding, which then increafed, I immediately took ten ounces of blood from her arm, and prefcribed an opiate that laid her quiet about three hours, during which the flooding abated. But when fhe awoke and began to fir, it returned, though not to fo violent a degree. In the afternoon I was allowed to examine, and found the ns internum wery thin, dilated to the breadth of a fixpence : hut as the flooding feemed to increafe towards night, 1 ordered cloths, dipped in cold oxjcrate, to be laid ever the abdomen : this application being twice repeated, the flooting entirely ceafed, labour-pains came on, in lefs than an hour fle was delivered of a live female childs and toth did well.

## $N \cup M B . \quad I V . \quad G A S E$ I. and II.

FROM LOOSENESS.

sOME years fince, bitious colics, attended with vomiting and loofeners, being epidcmical, I was called to feveral women labouring undcr thefe complaints at diffcrent times of pregnancy ; and they were gencrally removed by wafhing the flomach and inteftines with warm water, and afterwards prefcribing opiates. One cafe, however, was more obfinate. I Was called to a woman who had been exhaufted and weakened by evacua* tions
tions for the face of twelve hours before my arrival. I was told by the midurife, that the was in labour of her firft child, though fhe wanted about three wecks of the full time; but I was not allowed to examine, a circumfance at that time of litile confeguence, becerufe whether the v/as or was not in labour, the firt intention was to carry off the vomiting and loofenefs, and recruit her loft frength and fpirits with all poffible expedition. I immediately ofdered her to fwallow large draughts of mutton-broth, which Ifound ready made, mixed with warn wạter; and thefe being thrown up at feveral rimes with a little fraining, The took thirty drops of liquid laudanum in a glafs of brandy and water; but this boing immediately rejeeted by her fomach, I gave her half the quantity of the laudanum in a little broth, and applied to her fomach a piece of brown paper, moiftened with laudanum, she now began to be gradually relieved of the pain, vomiting, and loofenefs; fo that I was permitted to examine, and found the mouth of the womb thick and foft, opened to the breadth of a crown-piece. I likewife felt the membranes, waters, and ohild's head. The complaints beginning to return, I repeated the laft dofe; and in about half an hour after the had taken it, fhe fell into a found fleep, which laftsd feveral hours, and awoke very much refrefhed, her complaints being entirely removed. All that day the felt no labour-paips; and as the was very weak, I direfted her to take frequently a fmall draught of pretty itrong chickenbroth, by which the was gradually recruited. She flept well that night, and in the morning was taken in labour, which proved tedious and lingering, though the svas at laft delivered of a large child, which wass dead, and in about fix weeks the was perfectly recovered.

I was again called to a gentlewoman attacked by a violenk fuperfurgation, in confequence of having caught cold, by fitting in an open chaife in rainy weather, when the was eight months gone in her fecond pregnancy. She had been exhaufted by the evacuation the preceding day and night; during which the enjoyed no repofe: and in the morning, when I was called, I found her pulfe seak and flow, and her extremitieg cold; and fhe told me, that in ftraining upon the ftool, the had foniething like labour-pains. I immediately prefcribed the following bolus and draught.-B Theriac. andromach. Gij. fumend. cum hauftu fequen-ti.-Rx Aq. cinnamom. fimp. $\overline{3}$ jfs. Nuc. mofchat. $\overline{3}$ fs. Liquid laudan. gut. v. fyr. e meconio 3 ij . M.-I direaed her to drink plentifully of white-wine whey; and ordered warm bricks, wrapped in flannel, to be applied to her legs and arms, in order to rcflore the natural heat, to promote a fiveat, and encourage reff. In the mean time I examined and found the os ateri largely open, and the head prefenting; and by feeling the hairy fcalp, perceved the membranes were broken. In confequence of what I had preferibed, her extremities became warmer, her pulfe rofe, fhe fell into a hreathing fweat, and flept thee hours; but being waked by a pain and frefh ftraining, I ordered her to take half the quantity of the former prefcription, by which means fhe was again relieved, dropped afleep, and, when fhe awaked in the evening, was quite free from the pain, griping, and Atraining, though fill very weak and feeble. To obviate this complaint, I directed her to take every now and then fome burnt ted-wine, with numeg and toaft, and in the interval fome chicken-broth. She continued eafy the night following : when I called next day, fhe told me the had fome flight $f$ ains: and I found the child's head lower in the pelvis. The fains ircteafed, and in two homrs after I arriyed the child was deliyered.

I have often known, in fuch cales, premature labour-pairts vanifh, and the toman proceed to her full time.

## $N \Psi M B . \quad \dot{V} . \quad \dot{C} A S E$ I. ond IT.

## FROM CONVULSIONS.

IWAS called to a woman by a nildwife, who told me that the lebour had proceeded very well; that the membranes had not broken until the mouth of the womb was largely opened; but that the head was no foomer forced into the upper part of the pelvis, than the patient was thrown into riolent convulfions, which went off and returned with every pain. She was a frong young woman, of a florid complexion. This was her frite child: her pulfe being full, hard, and quick, ten ounces of blood were immediately taiken from her arm: the convalions abated every pain, vartil they went off entirely; and in about an hour after they left her, the was fafely delivered.

A woman in her third pregnancy, neat her fuli time, being taken with a giddineis, which was immediately followed by ltrong convulfions, I was called by the midivife, and examining in time of a convolton, found the mouth of the womb open, and the convulfion forcing down the membranes and waters in the fame manner as they are ufually preffed down by the la-bour-pains. She was infenfible, and thefe fits returned cvery fix or eight minutes. Herpulfe being very quick and full, I ordered her to be bled to the quantity of ten ounccs, and a bliter to be applied to her back. In confequence of thefe remedies, the convulfions abated, and foon went off; but The wass fill inferfible, and incapable of fwallowing any kind of liquid. The friends being averfe to nyy delivering her, I delired, that in cafe the convulfons fhould return, I might be immediately called in order to deliver her, otherwife the would certainly be lof. My prognoftic was literally verified, for in about an hour after I went away, they returned with fuch violence, that the expired before I could reacl the houfe; but the chidd was delivered during one of the fits.

I attended feveral patients who were attacked in this manner near their full time, fome of whom were relieved by bleeding and hliftering, and went on to the ufual period; while others, with whom this method did not fucceed, were, with the children, faved by immediate delivery. Other practitioners had cafes of this kind during the fame time; fo that they feem to have proceeded from the confitution of the weather.-Wide part iii. colleat. xxsiiii, No. iii.

## C $A$ S E MII.

## Communticated by Mr. Mudge, of Plymarutb.

HE bled a woman in the morning, in the ninth monih of herpregnancy, who complained of a violcut head-ach. He was again called in the evening, when the was fcized with convulfions, for which he preferibed a clyfter, blifters, a nervous mixture, and drops. At nine the fits became more violent, and continued longer; and concluding that Immediate delivery was abfolutely neceflary to fave her life, he examined by the touch; then putting the patient in a proper pofition, he introduced his hand into the vagina, and tried to dilate the os uteri, which was very rigid, fearce fo open as to admit a quill, and at firft very difficult to be diftinguifhed.

After feveral unfucceffful trials with his finger, he was obliged to defift, in hope that it might be better difpofed to dilate by next morning ; bcfore
whicti time, however, he was twice called in the night, found her in continual convulfions, and no alterations in the parts. About noon next day, he vifited and found her convulfed without intermiffion, though the force of the fits had not dilated the os uteri in the leatt ; neither could her mouth be opened fo as to receive any medicine. At feven in the evening he was called in a great hurry, when tlic midwife told him, that now the child's head was in the paffage. He could fcarce believe this information, which, linwever, he found literally true, and fent for his forceps to affit in delivery ; but juft as he was about to apply them, the head was forced down by the convulfions; he then delivered the body, and afterwards extracted the placenta, and the convulfions immediately abated:

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N U M B . \quad V I_{0} \quad C A S E \quad I . \text { and } I I_{0}
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FROM FÉVERS.

DURING the time of a pleuretic fever that was cpidemical, and often proved mortal if the patient was not plentifully bled at the firlt attack, I was called to a gentlewoman in the ferenth month of her pregnancy, who had bore feveral children. She was fuddenly feized with violent ftitches in her right fide, and a great difficulty in breathing; for which the immediatcly loft ten ounces of blood. From other patients, attacked with the fame difeafe, I had taken twenty ounces; and, by repeating this evacuation once or twice, had frequently carried off the inflammation and fever; while thofe who were bled too fparingly, or too late, funk under the difeafe; but I did not venture to bleed this patient to fuch a quantity, on account of her condition. Neverthelefs, as the fymptoms were alleviated, though nor removed, by the firf venæfection, I followed Syndenham's method in prefcribing plenty of diluents, and next morning repeated the bleeding to the fame quantity. Upon my firlt arrival, I had fent for an eminent plyyfician, who lived at forme diftance, and he approved of what I had done ; advifing, that as it would be hazardous to take a large quantity at once from a perfon in her condition, fhe might be bled the oftener; and this merhod being followed, in two or three days relieved all her complaints, having prevented a fuppuration, perhaps a mortification, of the pleura. Though much exhaufted by thefe evacuations, fhe gradually recovered frength to proceed in her pregnancy; and in a fortnight after her recovery, was fafely, though prematurely, delivered of a weak child, which - did not long furvive the birth.

I was again called to a woman in the ninth month of her fourth pregnancy, who was feized with a violent fever, in confequence of having caught cold. She complained of a racking head-ach, was between whiles delirious, and on the fifth day of the fever, when I was called, fell into labour. I felt her pulfe, which was quick, low, and intermitting: fhe laboured under a fubfultus tendinum, and was in a little time delivered of a very weak child, that foon dicd: her delivery was attended with inconfiderable difcharges, and the expired that fame evening.

I have attended in many cafcs, at different periods of pregnancy, in the beginning, incieafe, leight, and declenfion of fevers, and the patient commonly recovered, if mifcarriage or delivery happened at the beginning or declenfion, provided the difcharges were not extraordinary : but when the fever was violent and at the height, the patient ufually died; and the child was frequently dead when delivered in the decline of the fever.
them with my fingers, they burf afunder. As I had now introduced my hand within the membranes, I foond the child floating in a large quantity of waters, which were kept up fo as that not one drop could pafs, my arm plugging up the paffage. I now found the head was detained by the navelftring furrounding the neck; this I difengaged, and by a little pufh at the head it fiwam up to the fundus uteri ; then the nates coining down, I took hold of the legs, and brought them without the external parts; the child being fmall, was eafily delivered with the placenta, but died foon after. According to the patient's reckoning, fhe was only entered into the feventh month of her pregnancy. Had I known this circumftance at firft, there would have been no occafion to do any thing but perforate the membranes for as the paffages were fo largely open, and the child fo fmall, it would have been foon delivered in any pofition with the labour pains; but as my hand was up in the uterus, it was then better to deliver as above.

The cafe was of great ufe to me afterwards, as I difcovered by it, that the waters are prevented from coming down by the arm plugging up the paffage, if the membranes are not broken before the hand is introduced into the uterus; and this is a favourable circumitance when the child is large, and in a wrong pofition; for when the membranes are broken, and the waiers pour off all at once, before the hand can be got up, the uterus contracts fo clofe to the body of the child, that it is then more difficult to effect the delivery.

## $C A \& E I$.

AWOMAN befpoke me to attend her, becaufe her two former labours. had been difficult, and both children had been loft. When I was called to her in labour, I found, during a pain, the os ureri largely open, and within the membranes the feet and nates of the fretus : but before mentioning this, I enquired of the patient how her former labours were, and if in the natural way : the nurfe anfwered that they were; but on my faying that the child came now in a wrong pufition, fhe acknowledged that both the former children came by the feet, and were delivered by different midwives, who were obliged to ufe a great deal of force, and each a long time before the heads could be delivered; but this circumfance had been kept a fecret from the patient, to prevent any gentleman being called. Examining after this information, and not finding any figns of a diftorted pelvis, I imagined that the lofs of the children might have proceeded from the heads of both obftructing the circulation of the navel-1trings. Being in hope of fucceeding better, I had the patient laid in bed, in an advantageous pofition, for the more fpeedy affiftance, if the delivery fhould prove tedious, viz. fupine, acrofs the bed, and her legs fupported by two of my pupils, who were allowed to be prefent, as a recompence for my troublew The pains being frong, the waters had by this time forced down the mema branes through the os externum; into which I eafily introduced iny hand, broke the membranes, and brought down the legs and body of the child a but as it ftuck at the houlders, I was obliged to bring down one of the arms, and after that another! I then felt that the difficulty of delivering the head was from the child being large, and the patient and pelvis fmall. As If fill felt a pulfation in the funis, I had all along, and at the different efforts, ufcd great caution to prevent over-ffraining the neck; but after many unfucceisful attempts to deliver in time of the pains, and the pulfation of the funis growing languid, as well as the woman's efforts, I was obliged
to increare the force, as in cafes of the laft collection. I had the long curved forceps ready, but as I had delivered the children with more force, and alive, I tried one effort more, by which the head was delivered, At that inflant I was forry to find the neck over-ftrained; and reflected, that this might have been prevented with the above inftrument. The child, when delivered, feemed alive; and by ufing the common method to affitt refpiration, it gafped three or four times, and expired. Befides my being forry that I did not try the forceps before this laft effort to deliver, I alfo reflected, that as there was a large quantity of waters furrounding the child, that the membranes were not broken, the parts largely open, the woman and pains ftrong, and that her children had been loit from the difficulty of delivering the head; thefe circumftances confidered, it would have been better practice, as directed in collect. xvi. No. vi. cafes iv. vii. and viii. to have introduced my hand into the uterus, broke the membranes, and brought down the head to prefent; by which means it would have been fqueezed down in the lengthened form through the fmall pelvis, and the child would have had a better chance of coming with more life into the-world.-Vide collect. xxxiv. No. i. cafe vii.

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C A S E \quad H I .
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The menbranes broken, the arm in the vagina, and the Sooulder filling up the os uteri, in fuch a manner as kept up the greatef part of the reaters.

BEING called to a woman in labour, the midwife told the that fome time before I arrived, the membranes had broke. On examining, I found the hand and fore-arm forced down without the os externum; and being informed that a large quantity of waters had been difcharged from the urerus, I expected it would require much force to turn, and deliver, by bringing down the legs of the child.

Having prepared every thing neceffary to prevent hurty arda confufion in time of the operation, and having alfo put the patient in a fupine pofition, as directed in collect. xxv. No. i. cafe i. I took hold of the child' $\varepsilon$ hand, which was the right, with my left-hand, and introduced my right in a flatiifh form, up betwixt the facrum and the child's arm, where I found the fhoulder clofely engaged in the os uteri, which prevented all the waters from coming off; for puihing up the arm and fhoulder, they, witly my hand, fipped with ealc into the uterus.

Fiading that my arm filled up the vagina, fo as to prevent the remaining wasers from coming down, I with my hand examined the pofition of the foetus, and found the head low down at the left fide of the uterus, the nates to the right, at the fundua, with the legs folded up at that fide. As there was a large quantity of waters flill remaining, I raifed the head of the fundus uteri, and brought down the legs with much greater eafe than I at firlt expected, and the child not being large, waf fafely delivered.

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C A S E \quad I V .
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BEING called to a patient in labour of her firt child, I examined in time of a pain, and found the os uteri was open about the breadth of a thilling, the membranes and waters were forced down, and gradually dilating the parts ; but not being certain as to the prefentation of the child, Idelired a midwife, whom I left in waiting, to fend for mes when the
found the labour farther advanced. The woman being impatient, I was again called in about two hours, when I found no great altcration, only the os utcri was felt a little fofter, and not fo thick: as the pains abated, I likewife felt fome part of the child, but feared it was not the vertex, as it had not the large round hardnefs of that part, being rather fofter, and more unequal. I mentioned nothing of this, but encouraged the patient, and allowed the labour to go on nowly, by which means the os uteri was gradually dilated; and at laft I plainly parceived that the face prefented. In order to prevent rcflections, if the child fhould have becn luft in the delivery, I privately, without the patient's knowledge, told her fricnds the wrong prefentation; and on pretence that a fupine pofition would affift the delivery, I had hcr conveniently laid in that attitude, fo that I could afift with advantage, in cafe the waters fhould ve difcharged on a fudden. Dy, this time the membranes had fully fretelied the os uteri, and began to die late the vagina; but being afraid they would brcak before they could fufficiently open the os externum, I gradually affifted every pain with two fingers in the vagina, to make ronn to introduce my hand, either to be ready, in eafe the membranes fhould break, to bring the head of the foetus into the natural pofition, if the pelvis was narrow and the head large; or if not, to turn and deliver by the lcgs. When the parts were fufficiently dilated fo as to admit my land, I cafily introduced it into the vagina, on which the membranes broke, and fome of the waters came off; then I pufhed up the head, infinuatcd my hand into the uterus, and my arm filling up the ragina and os externum, prevented any more from coming down. The fore paits of the child were to the right fide of the uterus; the pelyis was not narrow, nor was the child uncommonly large; and there being ftill a Jarge quartity of water, I with great eafe and fafety brought the lcgs, and delivered the child.

## $C A S E \quad V$.

ONE of the poor women where the pupils attended, fell in labour in the eighth month of pregnancy, about ten days after fle had been $f(-$ verely beaten; the had been in a lingering way for two days. As the midwives and gentlemen could not feel any part of the child prefent, they fufpected it would be a preternatural cafc, and fent for me. On examining, I found the os uteri largely open, and in time of a ftrong pain, the waters forcing down the membranes into the vagina; but when the pain abated. and the tenfe membranes relaxed, no part of the foctus could he felt. I then obferich, as this was the woman's firft child, it was ftill proper to have patience, and allow the membranes to ftretch the vagina and external parts. Having ordered the patient to he laid in a convenient poflure, as in the former cafc, to be ready to deliver in cafe the fretus fhould be in a wrong pofition, I waited until I found the membranes were forced through the os extcrnum, and had fufficiently dilated the fame; but finding them fill rigid, the woman wcak from want of nourimment, and confidering the lengtl of the labour before we werc called, I thought it was proper to begin, and, if polible, to prevent the lofs of all the watcrs, in cafe the child was in a wrong pofition. As a pain abated, and the membrancs werc relaxcd, I introduced my hand into the vagina: but fecling no part of the chitd, I concluded it lay acrofs the uterus, with the hack, fide, or belly downward. In this opinion, I forced my hand up into the uterws, on the outfide of the membranes; which giving way, I infinuated my
hand within them, and was furprifed to find the whole body of the fortus clofe up at the fundus uteri, and a large quantity of waters below, which were kept from coming off by my arm plugging up the vagina; I alfo felt the head lower than any other part of the child; the caufe of this pofition I did not know till after delivery. Having fearched for the feet, and brought them, with the legs, without the os externum, I wrapped a cloth round them, and turned the fore parts of the child backward; but after feveral attempts I could not deliver the body. Examining the lcgs, and finding by the cuticula being livid, and ftripping off, that the child was certainly dead, and that the obftruction proceeded from the inflation of the abdomen, I refolved to open it with the fciffars, or the more certain method of the crotchet ; but on making another trial, and with a good deal of force, the expanded belly came out all on a fudden; and as the child was fmall, the fhoulders and head were eafily delivered.

If the membranes had broken, and the waters come off in time of the labour, the head of the child would have prefented to the birth. I have had a few cafes of the fame kind, where I could not feel any part of the child before the membranes were broken, and I could not account for this circumftance before I attended this woman; but I have fince obferved, where no part could be felt when the waters were conse down with the membranes, and the pafiage was largely opened, and the head prefented after the waters were in part or wholly difcharged, that the child had been dead fome time; and from the inflation of the abdomen, was fpecifically lighter than the waters, efpecially when there is a large quantity kept at the upper part of the uterus; but if there is a finall quantity, the head will be felt before they are difcharged.

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N \cup M B . \quad I I_{0} \quad G A S E I .
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Cbildren delivered in the four laft months of pregnaney, from violent fioodin"s ${ }^{\text {s }}$

IWAS fent for to a woman, who was attacked with an hæmorrhage from the uterus in the fixth month of pregnancy, occafioned by a fall from a horfe; the complained much of pain in her left fide, on which the fell, and faid her belly feemed as over-ftrained from the violence of the fhock. She was brought home, bled, and put to bed before I arrived at ehe place. The parts affected were alfo fomented and embrocated, with a mixture of oil, fpirits, and vinegar. The difcharge at firf was but fmall; She had no pains that indicated a mifcarriage coming on; and her pulfe was regular. I ordered barley-water acidulated with fp. vitrioli for her drink ; directing her to be kept quiet, that fhe might get as much natural reft and fleep as poffible. Next morning, finding that the complained more of the bruifed parts, that the difcharge fill continued, and that the fear of this, and the fright from the fall, had prevented \{leep, the was again bled; upon which the above complaints were abated; and the being coftive, was alfo much relicved by an emollient clytter. In the evening feveral fmall clots of blood were difcharged, with Alight ftrainings, and the hæmorrhage returned with greater violcnce than before. The bleeding at the arm was repeated, and it paregoric draught given her, in which were 25 drops of Sydenham's diq. laud. by which means the difcharge again abated, and the flept pretty well all night. The complaints from the fall were now much lecteri; but the being much dejected on aecount of the danger of mifcarrying, I endeavoured to foothe and affuage her fears. If
defired her to keep chiefly in bed; to continue drinking barley-water acidulated; to live mofly on weak broths and panada; and to abftain from fermented liquids, and every thing that was not of caly digeftion. Neverthelefs, for feveral days, a bloody ferum was continually draining; and every now and then fome coagula came off with ftrainings; which brought on a freih hæmorrhage, that foon abated. About eight days after the had received the fall, I was fent for in great hafte at fix in the morning; and was informed, that the difchargc of a large coagulum of blood was followed by a violent flooding, which ftill continued. I found her pulfe low, her countenance pale, and fhe was fo fuint that the could fcarcely fpeak. I had all along told her friends the great danger to which fhe would be expofed, if the flooding fhould return and increafe before labour cam on. Although the had already loft a large quantity of blood, yet it was by intervals; and there had been time between the difcharge to recruit her firength by the above-mentioned light nourifhing diet. I now found the difcharge rather increafed; that there was little probability of reftraining it, fo that fhe might proceed in her pregnancy; and I was afraid, if I delayed attempting the delivery longer, fhe might foon be in imminent danger of her life.

At this period of my practice, $I$ did not know, that applying ftyptics in the vagina, and filling up with doffils of lint, would fometimes reftrain the flooding, and affift to bring on labour ; neither did I know, that the breaking of the membranes, to allow the difcharge of the waters, was of ufe to reftrain the floodings, by allowing the uterus to contract clofe to the contained embryo or foetus.-Vide collect. xxv. No. ii. cafe ii. and vii. alfo collect. xxv. No. i. cafe iii.

Having fignified to the friends the danger that the patient was in, I defired the hufband to call another gentleman of the profeffion; who came accordingly. After being informed of every circumftance about the patient, he was of the fame opinion, and thought it abfolutely neceffary to deliver her as foon as poffible. Having encouraged the woman, I had her laid in a firm poftion, as defcribed in collect. xxv.. No. i. cafe i. and iv. expecting, as it was her firft child, it would require a good deal of forcc, and coft the patient much pain, before the parts would be fufficiently dilated, fo as to admit my hand into the uterus. Having laid feveral doubles of a theet below the patient, and being feated properly, I began gradually to ftretch the os externum. Having made room for my fingers, which were contrafted together in a conical form, I continued nowing them flowly in a femicircular manner and by intervals, till at laft I intraduced my hand through it into the vagina. During thefe and the following efforts, the patient was told, and imagined, it was her labour coming on; by which deccption the bore the pain with great fortitude. I now found the os utcri only fo much open as to receive my fore-finger; by turning which from fide to fide, it yielded fo as to receive the middle, and by repeated efforts, was at laft fo much dilated, as to enable me to introduce all the fingers of that hand; yet after feveral trials, I could not make a larger opening; and my fingers being much cramped, I was obliged to withdraw. that hand, which was the right, and try. to dilate with the fingers of the other; which were alfo ineflectual, fo that I thought proper to defift. The patient having undergone nuch fatigue, we ordered her ten drops of liyuid laudanum in a cup of burnt red-wine, and applicd cluths dipped in vinegar to the external patts, and over the abdomern, Happily for the woman,
we found that the flooding was again diminifhed; and agreed, that fupporting her as before with nouriming fluids, to fupply the lofs of blood, was the only method by which we could hope to carry her on, and keep her alive until the pasts fhould grow more foft and yielding, or the labour kecome more vigorous. Ahout nine or ten at night, the flocaing returned, but was foon rettrained by giving a draught with 15 drops of liq. laud. She continued in this way for three days, the flooding returning four or five times, and abating pn repeating the diaught. At the end of this period, fle was again attacked with another violent difcharge, which did not abate as formerly. Finding the os uteri fofter, and to appearance more yielding, I made a fecond trial ; and at laft with fome difficulty dilated fo effectually, as to introduce my hand into the uterus; then breaking the membranes, I found a larger quantity of waters than could have been expected, confidering the fmallnefs of the child. To prevent the weak pailent's faisting, from the fadden emptying of the uterus, I defired one of the affiftanss to prefs on her belly with both hands; and after I gut hold of the feet of the child, I fowly brought down my arm which had kept up the waters, that they might be difcharged by degrees, and at the fame time defired the affiftant to prefs a little more. The child being fmall was enfily delivered; it came into the warld alive, bat died in a few hours after iss bith.

As the placenta did not follow by pulling gently at the funis, I again introduced my hand, and found it at the back part of the uterus, the inferior nart of it adhering firmly, and fecling like a fcirrhous fubftance; I therefore did not venture to feparate it, for fear of tearing the inner fubftance of the uterus; but only brought down that part that was already feparated; for, fome time before this, I had a patient who I imagined was loil by ufing too great force to feparate the placenta in the feyenth month. Although the violent difcharge was much abated after delivery, yet the patient feemed to be in great danger from repeated faintings, her pale countenance and low pulfe; for thefe reafons I referibed five drops of lig. laudansm in a little burnt claret, applied a cloth dipped in vinegar to thie abdomen, wish a long towel pinned round hez body. We were obliged to kuep her lying on her back, with her head and fhoulders in a low polition, for at leaft two hours, before we durft venture to place her right in bed; giving her every now and then fome broth out of a tea-pot, and likewife fome more of the red-wine; we alfo repeated the fame dofes of liq. Isudanum a fecond and third time; in confequence of which, fhe fell into fittle dozing fumbers, and at la!t recovered from the moft imminent danger. She continued in a weak condition for many days: that part of the placenta which was left behind commenicated a difarreeable and mortified finell to the difcharges, and did not feparate and come off before the lifth or fixth day after delivery.

I have been the more particular in defribing every circumftance of this cafe, to fhow your praditioners the difficulty and uncertainty of managing flooding cafes, efpecially in the laft four montlis of pregnancy; for they feequently fagger the judgment of the inoft experienced practitioners.

## $\begin{array}{llllll}C & A & S & E & S & 1 T\end{array}$

BEING called by a midwife to one of her women, who had been attaked with a flooding for feveral days, and was then only in the ferenth month of uterine gettation, the midsitio told ma, that the patient

Had been bled, and every thing done to reftrain the difcharge ; but now it was increafed to that degree, that it had run through the bed; that fhe had undergone frequent faintings, every one of which it was feared would be her latt ; the midwife alfo informed me, that fhe had fomething like labourpains every now and then. The woman's pulfe was low, her countenance pale, and indeed like one ready to expire; on examining, I found the os uteri open near the breadth of half-a-crown, and the breech and feet of the foctus prefenting. I gave the pafient five drops of laud. liq. in a little red-wine, and repeated the fane cvery five minutes for three times; not daring to give more at a time, on acconnt of her weak condition, as the flooding itill continued. When the feemed to have a little ftraining, I tried to bring on a pain, by fretching the os uteri with one of my fingers; this forced the membrancs and waters down fo ftrongly, that I broke them : but finding, after waiting fome tinue, that this had not the defired effect to reftrain the flooding fo much is I expected, I repeated the laudanum. As the woman continued to have frequent faintings and cold fweats, I told the friends that there was little hope of life, even if the were delivered, and gave my opinion that perhaps fhe would expire in the attempt; but as they begged that I would try, and as it feemed the only method, and the laft refource to fave her from death, Iftretched the parts gradually, and delivered the fœetus; but as it was her firt child, it required a good deal of force to dilate the os uteri; and on introducing my hand through it, I felt it give way, and tear on the left fide. The child was alive, and lived till next day; the placenta followed the delivery. The patient fell into a kind of dozing, and recovered contrary to expectation, confidering the low condition fhe was in at the delivery. The laceration of the os uteri gave me a deal of concern. I had been formerly employed in a cafe, where the woman was not fo weak ; and by ufing great force, in urder to fave both mother and child, the os uteri was tore; the woman died foon after from lofs of blood, as I then imagined, proceeding from the toren veffels of the uterus. Vide cafe ix. of this collection.

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C A S E \text { IH. }
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AMIDIVIFE fent for me to a woman who was exceffively weak and low from a violent flooding. She had formerly been deliwered by a gentleman of feveral children. The midwife at firft informed me that the had been but lately called; that the patient had loft a great deal of blood, and was in the utmoft danger from frequent faintings. The woman's pulfe was fo low that I could with difficulty feel its motion; a cold dampnefs overfpread the face and extremities, and fhe could farcely fpeak. On examiaing, I found the mouth of the womb largely open, the placenta lying over it, and the vagina filled with coagulated blood. The hufband begged I would do all in my power to fave his wife. I told him the cafe was dangerous, and formuch time already !oft, that I was much afraid fhe would expire in the operation. All prefent were convinced of the danger; I was moreover informed, that the patient had a fmall dearee of flodding for $\mathrm{fe}-$ veral days; but that evening it had increafed with greater violence, and was attended with fome labour-pains; which laft had left her for more than two hours. There being no broth ready, I ordered an egg to be beat up with warm water, feafoned with a litule falt, to which was added fome red wine; a litele of this was given immediately. In the mean time iprepared every thing for the delivery, and defined the midwife io move the patient
nearer the fide of the bed, with her back toward it. During this alteration, fhe again fainted; and indeed every one prefent imagined the would not recaver from the fwoon. When recovered a little, the, in a low tone, begged earnefly to be delivered. Her itrength being fomewhat recruited, I introduced my hand into the vagina, and tried to reach the membranes, in order to break them; but the placenta was over the mouth of the woinb. Ibeing afraid of tearing the after-burden, flipped my hand flattened through the os uteri, and betwixt that and the placenta, until I reached the membranes; which I broke through by grafping them with my fingers, then eaking hold of the legs of the foetus, which were at the fundus uteri, I brought them down flowly into the vagina. The midwife was feated on the oppofite fide of the bed, on purpofe to prefs with both her hands on the abdomen, to prevent, as much as poffible, the patient's fainting away, from the too fudden evacuation of the uterus. As there was a large quantity of water Itill detained. I defired that the preffure might be increafed when I withdrew my hand; and although the head was at irft downward, it eafily turned up to the fundus when Ibrought down the legs. Finding the patient bore the operation wishout fainting, I removed the wet cloths above, and applied dry ones to the external parts; I ordered fome more of the egg-caudle and wine to be given; and then, with great eafe, delivered the child, which was dead. The fecundines followed, being forced out by the weak effort of the woman, along with a large quantity of coagulated blood. When I introduced my right-hand into the uterus, to deliver the child, I paffed the edge of the placenta, at the patient's left groin, and found it adhering to the back part and right fide of the under part of the uterus; this an advantage, in confequence of which I got fooner to the membranes. That part of the placenta, which was detached, and over the os utcri, was of a dark livid colour; the other that adhered to the uterus, was frefh and well coloured. Atter delivery the flooding abated, and to appearance the patient feemed a little recruited, and lay pretty quiet for fome time; but in an hour after the began to have a difficulty of refpiration, which gradually increafd, with ratrling in the throat; at laft fhe fell into faintings and convulfions, which foon clofed the difmal feene, by putting a period to herlife.

The midwife, who was an old practitioner, and in good repute, told me, that the gentleman who formerly attended the patient in all her labours, had becn called fome daye before, and ordered what he thought proper in fuch circumftances; but the complaint increafing, and he being otherwife engaged, the midwife was fent for at his defire, when the found the patient had a fmall degree of flooding, which increafed and diminifhed by intervals; but as the found nothing like labour beginning, fhe defired the patient might fill continue to take what was prefcribed by her phyfician. She was again called next evening, when fhe found fomething like labourpains, the mouth of the womb a little open, and fome foft fubtance like the placenta prefenting. On this the doctor being again fent for, declared what prefented was only a large coagulum of blood; and went away, after ordering fome other medicines. As the fooding continued to gain ground, the hufband went for the "doctor, but did not find him at home: The hexmorrhage increafing, and the woman appearing to be in imminent danger, he went again and found the doctor in beid; who faid he could not go with him, becaufe he expected to be called eiery minute to another patient, to
whom he had been previoully engaged. In a word, he could not be prevailed upon by all the intreaties the gentleman could makc; fo that immediately after the hufband's return I reccired a call. -In a little time after this oecafion, he was, for neglecting a patient in the fame circumftanees, expofed, fued, and calt in a confiderable fum of money:

## $C A S E I V$.

AMIDWIFE fent for me to a wonan, and told me her patient was attacked in the beginning of labour with a difcharge of blood, which ivas not violent at firft; but as the found it increafe, the defired my affiftance. Before my arrival the membranes had given way, and one of the child's arms come down into the birth. I underfood the flooding had diminifhed, and that now there was very little blood on the cloths. On examining all the cloths, I found there had been a good deal of blood loft; neverthelefs, although the woman's pulfe was low, yet fhe did not feem fo weak as I expected. Indeed, before I examined the cafe, I ordered her to take fome wine with her caudle, to ftrengthen and recruit her fpirits. On trial, I found the arm lying double in the vagina, and the fhoulder preffed in at the upper part. Being afraid, if I delayed the delivery, it would be more difficult to turn the ehild, I caufed the patient, as fie already lay in a fupine pofition, to be brought down to the foot of the bed ; the weather being cold, and that part neareft the fire-place.' I ordered two affiftants to fupport her legs; and as it was not her firft child, I eafily introduced my hand into the vagina. There being a fmall quantity of waters retained in the uterus, from the fhoulders plugging up the os uteri, I with great eafe puifhed up the arm and fhoulder into the uterus, raifed them up to the fundus, brought down the legs, and delivered the child, which was but fmall, the placenta following without any affiftance. While I was cmployed in dividing the funis of the child, which was alive, orie of the afiftants told me the woman was fainting away. I immediately gave her the child, and preffed on the abdomen of the patient with borh my hands, having forgot that precaution in time of the delivery; but inftead of recsivering from the fainting, fhe was immediately thrown into convulfions, and died inftantly. Befices the preffure on the abdomen, every method of ftimulating was tried to prevent the fatal cataftrophe, as volatile falts, fpirits, and burat feathers held to the nofe, to quicken refpiration, alfo frictions of the iemples, arms, and legs. 1 reflected atierwards, that the fainting did not procced from any new evaemation of blood after the delivery, as there was very little on the cloths, but from the ncglect of the preffire. As the flooding had fopped after the mombranes broke, it perhaps had been fafer to delay the delivery till the patient rceovercd more ftrcigth, or at leaft until the pains rcturncd, which were gonc off on the difcharge of the waters; for the fhoulder of the foctus would have kept up the remaining waters until thofe efforts returned.

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C A S E \quad V:
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AWOMAN of a very weak halhit of body, having been under graat aftiction for the lofs of her hufband, was fuddenly taken with a violent hxomorrhage, upon which a gentlcman, who had been befpoke to lay bier, was fent for about four in the morning; but he being atherwife en-
gaged, I was called about feven; and defired, by an acquaintance that came for me, to make all poffible hafte to prevent the woman being luf for want of proper affiltance. In this cmergency a midwife had been alfo called, who told me that the patient had fome flight pains, and had not loft much blood; in which affertion fhe was contradicted by the attendants, as well as by the woman herfelf; they defired me to examine the cloths, where indecd I found a large quantity; and was informed that the midwife made flight of the affair, to prevent another bcing called. As I found the patient's pulfe very low, and her countenance pale, I told the friends the danger, and defired them to fend again to the other gentlemans as he might now be difengaged; but this was objected to, as it would take up too much time, efpecially as he lived at a confiderable diftance ; they therefore begged I would not delay affifting the woman, who was in fo deplorable a condition. On examining, as the patient lay on her fide, I found the os uteri fully dilated, the membrancs and part of the placenta profenting. I introduced my hand in a conical form into the vagina, intending to break the membranes, that the waters, after being difcharged, might allow the uterus to contract to the body of the child, and reftrain the Hooding; but the membranes were rigid; and in making an effort to lacerate them, my hand nipped eafily thoough the os internum into the uterus, on the outfide of the membranes. After having broke through them, I delivered the child and fecundines, as in the former cafe, but in a flower manner. I ore dered one of the affiftants to prefs the abdomen with both hands in time of the operation. The child was alive, the hæmorrhage abated, and the patient, who bore the delivery with more courage than I expected, feemed at firt to be in a good way ; but having loft more blood than her weak condition could well bear, in a little time her pulfe became low and creeping, and her extremities grew cold. I then ordered warm bottles of water, wrapped in flannel, to be applied to her feet, legs, hands; and arins, and fupplied her frequently with chicken broth, which was then ready ; I alfo preferibed a cordial mixture with confect. cardiac. a fpoonful of which was to be given from time to time. In confequence of thefe precautions, the enjoyed fhort, yet interrupted Яumbers, and recovered, contrary to my expectation; but was feveral weeks fo low that the could not fit up. In about fix weeks aftor, fhe was carried to the country, and recovered her Atrength by drinking affes-milk.

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C A S E \quad V .
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IW.AS called to a patient attacked with violent flooding in time of labour: My attendance had been befpoke. I found the os utcri rigid, and openabout the brcadth of half-a-crown. This erial being made in timc of a puin, I waited till it went off; and the mombranes being relaxed, I felt the head of the foctus within them, refting above the offa pubis; but between that and the membranes I felt fomething like the funis umbiliealis Iying backward toward the facrum, in two or three doubles. As fhe had not had a flool for two days, one was procured by adminittering an enollient clyfter. Itaving watted fome time, and finding the pains were but weak and feldom, I fent for Mrs. Maddocks, a midwife whom I kept on purpofe to attend iny patienes in lingering cafes, and defired her to put the wortian to bed, in hope the would obtain fome flecp; but enjoined her to fred for me when the pains grew ftronger, and before the membranes. broke.

About fix next morning I was called in a great hurry, and not a little furprifed when I came into the room to find the patient pale and fainting, the friends furrounding the bed all in tears, begging my affiftance to fave the woman's lite. The midwife I left told me the patient had flept a good deal till about five, and had only waked now and then with the pains; that there had been fome fhows, or a very fmall appearance of blood on the cloths; but that all on a fudden the was attacked with a flooding in time of making water, and that it ftill continued to pour from her in a large quantity. On examining the cloth that had been applied to the parts when the fainting began, I found very little blood; the hæmorrhage having been reftrained in time of the deliquium. The patient recovering, and taking a little wine and water, I feit the os uteri largely open, the membranes puthed farther down, and part of the edge or fide of the piacenta at the left fide of the os uteri; 1 alfo with more certainty diftinguifhed the funis on the infide of the membranes, and the head in the, fame pofition refling above the pubcs. This cafe being uncommon, I was uncertain at firft hov to proceed; but at laft confidering with myfelf, if I broke the membranes to evacuate the contained waters, fo as tn allow the uterus to contract and reftrain the flooding, the foetus would be loft by the preffure of the head againt the funis in time of delivery, I refolved, in order to prevent this mistortune, to turn the child, and bring it along in the preternatural way, which would give a herter chance to reffrain the one and fave the other, if the opcration could be performed in a flow cautious manner. As there was no broth ready, I ordered the whites of two eggs to be beaten up with a pint of warm water, feafoned with falt; this to be given the patient from time to time with a little wine, to replenifh the emptied veffels. Having affigned to the midivife and the other affiftants their proper fations, and prepared exery thing neceffary, I examined in time of a pain, which forced out fome coagula of blood from the vagipa, with a frefh difcharge. As the patient lay on her left fide, I kneeled down on a cufhion behind, introduced my right-hand into the vagina, and as the placenta was at the left fide, I turned my hand fo as to fide it gently through the os uteri, and up betwixt the membranes and right fide of the uterus. Having grafped and broke the membranes, I infinuated my hand within them, raifed the head to the fundus, and turning the fore parts of the child to the back part of the uterus, brought down the legs into the vagina, allowing the waters to come off by degrees. Meanwhile I defired one of the affiftants to prefs with the palms of her hands on the patient's belly, and increafing the prefure as the uterus emptied. The patient endured all this with great fortitude.

Having cleared away the wet cloths, and applied dry oncs to the parts, I obferved that the flooding was diminifhed, and refted more than half an hour. In the mean time I directed her to take feveral times fome of the above caudle. Finding her ffrength and fpirits recruited, I delivered the child, which was fmall, with great eafe, and the fecundines followed. The preffure was continucd on the abdomen of the patient until a long towel was applied round her middle, and fecured fo as to do the office of a firm bandage. The child was very weak at firft, but recovcred. The mother continued in a low condition for many days, being fupported with proths and cordials, but was able to get cut of bed in three weeks.

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C A S E \text { VHI. }
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THE midwife, when called, was informed by the patient that her pains were but flight and foldom; but the was much alarimed at fome blood that came away every time, as there had been no appearance of any fuch complaint in her former labour=, When the midwife examined, fhe found the mouth of the womb a little open; but could not diftinguifh any pare of the child; and the woman being of a weak and delicate conflitution, fhe told the friends the danger fhe would foon be in if the difcharge increafed. On this information Dr. Gurdon being fent for, ordered an anodyne mixture ; and as he was obliged to go out of town, defired them to call me if the flooding did not go off, or ftrong labour come on. Soon after this the patient was taken with violent and frequent retchings, which very much increafed the flooding. On this 1 was immediately fent for ; but bcing called in a great hurry from one labour to a fecond, the meffenger could not find me, and went for Dr. Sands, In the interim I came home; and bcing informed of the meffage, reached the houfe before he could arrive. The labour-pains hy this time were gone off; the patient's lips and countenance were pale, the pulfe had funk, and the was attacked with frequent fingultus. On examination I found the os uteri largely dilated, the membranes and witers prefenting, and fomething like the fingers and funis umbilicalis of the foctus within them. By this time the flooding was a little abated; on which it was propofed to fend and prevent the other gentleman's coning, as he lived at fome diftance ; but I told them by no means, as the woman "as ftill in the utmof danger, and it was very proper to have his advice and affifiance, both on account of the patient, as well as to prevent reflections, and for the fatisfaction of all concerned. By this time my brother accoucheur árived. I had given her every now and then a little brorh and wine to recruit lier finking fpirits; and when he examimed, he told me that he fornd thofe parts mentioned above, and likewife the head of the child forward and refing above the offa pubis. This I had not perceived; for as fhe lay on her left fide, had only examined with a finger of my right-hand, which I could not turn above the pubes; but on trial with my deft, I eafily found the head refting above thefe bones. After confulting iogether, and confidering every circumitance of the cafe, he at firft prope fed, as the flooding was diminifhed, to give the patient a paregoric dratght, and wait with patience for the return of the labour; but foon after this, and before the medicine arrived, fhe was attacked with a violent fit of retching, which forced down a large coagulum of blond, attended win a return of the flooding; which ran over the bed. 'This fudden change alterd our former refolution; and we now colicluded, that the only methol to five the patient's life was a fpeedy delivery. Indeed I was of that opinion at firft, on account of her weaknefs, as well as in refpect to the fafery of the child, as the funis had fallen down before the head. The fide of the hed bcing wet, and at a diftance from the fire, I had the patient turned to her back, and moved down to the feet. While two affiftants fupportcit her legs, I kneeled down, and, with greater eafe than I expected, introduced mivy hand into the uterus, and delivered the child and fecundines, much in the fame manner as in the former cafe; having taken almoft the fame fecantions to prevent the patient fainting away and finking under the operation. There was no appearance of life in the child; yct no part of it was livid, neither the lips nor private parts: a circumftance which plainly fhewed that it had not been long dead. As the food-
ing was now flopped, we ordered the patient to take about a tea-cup full of broth every quarter of an hour or oftener, to fupport her, and recruit the lofs of fo much blood; but not too much at a time, leit her weak ftomach fhould be over-charged, and bring on again the retchings, to which She was very fubject (as the nurfe informed us) even in time of health. We likewife directed her, if the fhould not get refrefhing reft, or if the flooding fhould return, to fwaillow the paregoric draught already preferibed; in which were twenty drops of tinet, thebaic. By thefe precautions, and proper aticudance, fhe feented for eighteen or twenty days to be in a good way of recovery, confidering her weak and delicate conftitution Vide collect. xli. No. v. cafe vii.

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C A S E \text { VII. }
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ONE of my patients fent her coachman to me, defiring that I would go to his wife. He informed me that the had been in labour above 24 hours; that the had formerly eafy labours; but now fhe was reduced fo low by a fudden lofs of blood, that he was afraid fhe would fink before I could reach the houfe. On my arrival, the midwife told me, that as foon as labour began, the patient was taken with a fmall degree of flooding, which had gradually increafed as the mouth of the womb upened; but that fhe had all along found an uncommon fubftanec prefenting, and had fome hours ago defired the friends to fend for a doctor; a propofal to which the woman herfelf would by no perfuafions confent to. She was to all appearance in a dying condition, nearly as defcribed in cafe iii. and No. ii. of this collection, On examining, I found the os uteri largely open, and the placenta over it ; on which Ifignified to the hufband and friends the great danger, declaring I was apprehenfive the would expire in time of delivery, and that it was a great pity fhe would not allow affitance to be called for before it was too late. Her fifter hegged that I would deliver the child, as it was now the only chance to fave her life; and if the fhould die, no perfon could be blamed. I ufed all the prerantions as in cafe vii. but in paffing up my hand by the placenta into the uterus, 1 could not break through the membranes. I was therefore obliged to withdraw it, and pufh $\mathrm{m}_{\mathrm{y}}$ fingers through the placenta; then I delivered the child in the preternatural way, on which the flooding ftopped; but fhe was fo weak that fhe expired in a few minutes. Yet, ccantrary to my expectation, efpecially as the placenta prefented, and was tore through the middle, the child was alive.

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C A S E \quad I X
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AWOMAN aged about 30 , who had been delivered of feveral childrem before, was taken with a violent difcharge of blood from the uterus; fhe was immediately bled, opiates and reftringent medicines werc prefcribed. They reitrained the hemorrhage a litile; but it rcturned with more violence, and to fuch a degree, that when called again, I expected fhe would expire every moment. The midwife informed me, that fomething like labour was begun; on which I examined, and found the os uteri open about the circumference of a crown piece, and very thin. The relations of the patient all leegged of me for God's fake to deliver her as foon as poffible, to give her a chance for life, and not to let her helly be the grave of the child. I complied with their requeft, and deliyered her much in the fame manner as deferibed in cafes vi, and vii. of this collection and No. but unluckily,
luckily, when Atretching the os uteri, which felt thin and rigid like a piece of parchment, the woman fhrunk from the fide of the bed, which obliged me to dilate with more force than I intended, to get my hand into the uterus; at which inflant I fclt the mouth of the womb give way, and tear at the fide, fo as to allow my hand to pafs without farther difficulty. The flooding diminifhed after delivcry, on giving her 15 drops of tinct. thebaic. but returned intwo hours, and ccafed again on repeating the fame medicine. She flcpt pretty well all night, was ncxt morning much recruited by the refrefling rctt and nourithing diet ; but foon after was attacked with a violent hæmorrhage from the vagina, by which the was in great danger of expiring immediately. This was checked by introducing into the vagina a fponge dipped in a folution of alum. To me it feemed probable, that this flooding might proceed from fome of the large veffels being tore that enter at the fide of the uterus. She was long weak; but by the affiftance of the cort. peruv, and a nourifhing diet, recovered. The child was alive, and at the full time. Vide collect. xxxv. cafc x. and collcct. xl. cafe viii.

As I principally wurite for the inflruction of young practitioncrs, I bave inferted the following cafes of floodings, fent me from gentlemen aubo forperly attended my courfes of midwifery, as I think thry may be alfo ufcful for the fame purpofes.

## $C \quad A, S$ E X. by Mr. Gr..

IW A S fent by Dr. Smellie to a patient, who complained of a violent cough, which had continued eight or ten days, and was the occafion of bringing on a flooding, for which the had been bled a few days before She was of a thin habit of body, and fallow complexion, had a flow and weak pulfe, which was now and then raifed by fits of coughing. Trat night I gave her ten grains of the pilula faponac. and next forenoon the was confiderably better both as to the cough and the flooding. In the afternoon the was ordered to take two fpoonfuls of a cordial and pectoral julep frequently; the pitls were alfo repeated, by which means the refted very well that night; but next day the cough and flooding returned, for which I took about ten ounces of blood from her arm. When I firft examined, the os uteri was not in the lcaft dilated ; but this day fhe having had fome flight labour-pains, it was open about the largenefs of a fixpence. As fhe was coftive, I ordered a clyfter, which had its proper effect; and after that the following mixture, to flrengthen and encourage the pains:BX Pulv. boracis 3 ij . Tinct. cafor. croci. $\bar{a} \bar{a} \bar{a}$ j. Spir lavend. sal vol. oleos,
 cochlear. ij. fecunda quaq. hora.-After this her pains came on ftronger and more frequent; but all on a fudeen fhe was attacked with a violent fit of coughing, which again brought on the flonding, and forcing down a large quantity of coagulated blood. In this emergency, I was fent for in a hurry, and found the os utcri largely diiated, the placenta prefenting, and feveral lohes of the fame feparated from the imbmranous part, and lying amongtt the coagula that had been difcharged. At this time the had no pains; and the midwife told me that the waters had been come off about an hour hefore I arrived; this was about one in the morning. Finding her faintif, with fcarce any pulfe, and her extremitics almoft cold, with 2 clammy iweat upon her hcad and hands, I told the friends the danger fhe was in , and the neceffity of delivering the patient direetly, Having put
her in a fupine pofition, and ordered every thing ncceffary to be in readinefs, as the placenta lay in my way, I firf brought that away, then turned and delivered the child by the feet with great eafe till I came to the head, which, as it was large, ftuck in the paffage, until I introduccd one of my fingers into the mouth, and depreffed the lower jaw, which affifted the head to come along with great eafe. On examining the child's body, I perccived it had been dead many days, from the livid appearance of the fame, but more efpecially from the farf-lkin being ftripped off in feveral places. As the fecundines did not follow the delivcry, I again introduced my hand, and brought them down, with the remaining part of the placenta ; and ordcred the patient fome ol, amygd. d. and fyr. ex althrea, for her cough ; alfo fome ther. Venet. with pulv. Gafcon. to warm her, and promote perfiration. When I faw her next morning the was a litude feverith ; the lochia were in a fmall quantity, and her cough was much abated, and the had got tolerable good reft. To affuage the fever, and affilk the uterine difcharges, I ordered her to take repeated dofes of the faline draught, fweetened with fyr. diacod. which rclieved her much; and by proper nourifhment fhe recovered better than I expected.

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\begin{gathered}
G \quad A \begin{array}{cccc}
S & E & S & X I . \\
\text { By } & \text { Mr. Mudge, of Plymouth. XIIL。 }
\end{array} .
\end{gathered}
$$

IWAS called to a woman in the forcnoon, about half an hour after eleven o'clock, and was informed, that as the was fpinning in the morning at: fix, fhe found fomething guth from her with fo much force, as made her fufper it to be the waters; but on looking on the floor fhe found it was blood. She had continued flooding in that violent manner till I was fent for; fhe was come nearly to her full time, but had not felt any pain through the whole. The patient was lying on the bed, her whole body was pale, and had a livid appearance, covered with a cold clammy fweat, and almoft without any pulfe. I was fhowed a chamber-pot three parts full of pure blood; and it was now pouring down in fo great a quantity, that 1 imagined the only chance to fave her life was a fpeedy delivery. After acquainting the friends of the imminent danger, 1 examined, and found the parts greatly relaxed, and the head of the foetus prefenting to the birth. which I paffed with my hand to feek for the fcet; but the firlt thing I met with was the placenta, quite detached, and lying loofe in the uterus. This pezzled me at firt, and made my coming at the membranes fomewhat difficult and confufed; howcycr, I got to them, tore thein open, and taking hold of the feet, brought them down to the paffagc, and foon finifhed the delivery. On introducing my hand to bring off the fecundines, I found the uterus not contracted, but lying like a loofe unelaflic bag in the abdomen. The flooding fopped directly, and the woman feemed much revived. I gave her $\mathbf{2 0}$ drops of liq. laud. in a cup-full of mulled port wine; but not laving a fufficient quantity of blood left in her veffels to carry on circulation and vital fecrecions, fhe died in about half an heur after delivery.
The fecond cafe was of ansther woman, nearly in the fame circumftance as the former, with only this difference, that the had nor loft quite fo much blood. When foe fent for me, 1 found her floodine very fait. She was come to her full time, but had no pains, nor any aprearance of labour. I gave her an opiacic, and deffed her to keep quiet in ued. This
twas about eleven o'clock in the forenoon; and when I called again, about half an hour after one, the hæmorrhage was not gone off, but rather increafed. The former cale was too frelh in my memory to delay my affirtance in this; 1 accordingly told the patient the great danger the was in; and that it was abfolutely neceffary to deliver her as foon as poffible; with fome little reluctance fhe confented. Having introduced my hand into the uterus, I was very cautious of keeping up the waters. On infinuating my hand through the membrancs, I raifed the head, turned the child, brought down the feet, and perfected the delivery in a very few minutes; the placenta was in great part detached. The mother did very well, and the child was aftrong healthy boy.

In another cafe, a woman who had befpoke me to attend her in labour; was feized with a violent flooding when feven months gone; on which account I took ten ounces of blood from her arm, ordered her an opiate, and defired that the fhould keep quiet in bed. The hemorrhage abated, but returned next day; when it was again ftopped by repeating the opiate, and ordcring her a courfe of faline draughts。 For 12 or 14 days, the patient continued to have frequent returns of the floodings, which were as often reftrained by the above methods; at which period, being fent for again in a hurry, I found the difcharge violent, her pulfe exceeding weak, her countenance pale, her eyes fünk in her head, and to all appearance fhe was in a dying condition. I immediately gave her a large opiate in a cordial dranght, that it might have the full effect by the time the delivery was finifhed. As foon as every thing neceflary was prepared, and the patient laid in a right pofition, I introduced my hand, and found the right arm of the child in the paffage, which was eafily and gradually pufhed up into the uterus. This I found ftrongly contracted, the waters having, as they informed me, gone off three days hefore. With my hand I gradually dilated, until I reached the feet of the fundus; and bringing ihem down with fome difficulty, I finifhed the delivery in the ufual manncr, after giving the proper turns, that the fore parts of the body fhould be toward the facrum. I alfo had fome difficulty in delivering the placenta. The woman recovcred; but the child died in a quarter of an hour after it was born.

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C A S \quad E \quad X I V . \text { Ry } M . M \text {. }
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AWOMAN being feized with a flooding in the morning, fent for me in the forenoon; the was come to her full time, and a week before had fome appearance of the fame kind. She hat no pains; her pulfe was high and iquick. I immediately took blood from her arm, ordered an opiate and fome faline draughts. 'The difcharge foon abated, and the remained without any appearance, till feven in the evening, when I was called in a great hurry by a fervant, who faid hor miftrefs was dying ; and was met by another in the way, repeating the fame exclamation. On my arrival, I indeed imagined the patient was juit dying; her pulfe was fo low, that it could fearcely be felt to move; her face and arms were covered with a cold fweat; her eyes had loit their luftre, and the blood was pouring from the parts. As nothing but inftant delwery could give her the lest chance, Iinformed the hurband of the circur it ice. He confenting, I then feated myfelf, and hwing introduced $n$ iand into the vagina, found the os uteri much to one fide, and fo li the 1 lated, that I could farce introluce my fore-finger; but by ftretching it $r_{a}$ ne gradually, and
flipping in one friger after another, I at laft dilated it fo as to receive my whole harid. The firlt thing I met with was the placenta fixed to the mouth and interior part of the womb, but feparated on the back part; I broke through it, tore open the membranes, and taking hold of the feet of the child, brought the:n down to the paffage, and with great eafe finifhed the delivery ; but in the hurry to fave the woman's life, ơne of the child's arms was broke; which I afterwards reduced; and it proved a ftout hearty hoy. The patient recovered, contrary to the expectation of all prefent ; and both fhe and the child, I ami perfuaded, muft have inevitably perifhed, if this method had not been takeri, or even if it had been longer delayed. I again repeated the opiate in a cup of mulled wine, notwithftanding which, in about five or fix minutes after, a fainting fit had nearly carried her off. To prevent any farther difcharge, which, though trifling, the now could not bear, I ordered cloths, dipped and wet with vinegar, to be applied to her back; and over the belly: The woman was of a thin habit, and tender conftitution:

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C A S E X V, \text { By Mr. M. A. af E-—: }
$$

AWOMAN aged 40, and feven months gone with the feventeenth child, was threatened with a flooding, for which the wa. led, and confined to her bed for four weeks; after which the hæmori....se returned, and continued, though not violent, for two days; on the third; at three in the morning, the blood cant away in a torrent, and overflowed the whole bed: When I arrived, which was about five, the patient was faintifh; with fearce any pulfé to be felt ; on which I intimated the great danger, and that it was abfolutely neceffary to deliver the child 2.5 foon as poffible. When every thing was prepared for that purpofe, I examined, and found the os uteri not fufficiently dilated; however, I got hold of a foot, and pulled it down, without fearching for the other, and delivered the child with great eafe, having neither been obliged to bring down the remaining leg or arms. The child was large and healthy, according to the woman's time of reckoning; the hæmorrhage, though not violent, continued two days longer, and the mother recovered.

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C A S E \quad X V I . \quad B y D r \text { D. of } T-
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E was called to a woman in the eighth month of her fixth child, who had been fubjeft to floodings for two months before. The nurfe Thowed him the bed-pan, in which was about two pounds of coagulated blood; and on examining the patient, the vagina was full of the fame; the os uteri was lax, and open about the breadth of half-a-crown; but he was at a lofs at firt to know what prefented. As the patient was exceffively weak, faint, and low, he was afraid fhe would expire under his hands. He told her friends, that the only way to fave her life was a ipecdy delivery; however, he tried to raife her fpirits with gentle corciials; a clyfter was alfo adminitered, with a view to affitt the pains, which were but tri-
fling fling; and when it operated, the coagula were forced from the vagina. As the flooding fill continued, he had the paticnt placed in a fupine pofition, and having introduced his hand into the vagina, found the placenta prefenting ; after which, with great eafe, he dilated the os uteri, dipped up his hand on the outfide of the membrancs, and with fome difictity tore them afunder. Although he found the head of the child prefenting, he
durft not, as the iwoman was lying like a corpfe, wait for a natural delivery, but immediately turned the fæotus, brought down the feet, and with little difficulty delivered the body and head, which were very flippy and flabby, the child appearing to have been dead feveral days. He with fome difficulty feparated the placenta from its adhefions; and was agrecably furprifed that there was no fenfible floodings all prefent were delighted to find the patient fo fenfibly recovered and cheerful after delivery. He ordered a gentle opiate to allay the after-pains, which had the defired effect; the lochia were fufficient, and in thott every thing was to his wifh; but a fever intervened, with irregular horrors and rigours, attended with fingultus and delirium; and in fite of all endeavours, fhe died on the fourth day after delivery.

The doctor being defirous of my opinion as to his conduct in this cafe, and two others, which are inferted in collecto xxviii, cafe v. and xxxiv. No. ii. I fent him the following anfwer:-

YOUR conduct and method of treating the three cafes of midwifery, which I received with your letter fome pofts ago, gave me great fatisfaction. The firft, where the arm of the child prefented, has no doubt convinced you, that it is only lofing time, as well as fatiguing the patient and yourFelf, to try to alter a preternatural pofition into a natural, when the waters are difcharged, and the uterus ftrongly contracted, and embracing the body of the foetus. As to the cafe of flooding, it was indeed enough to damp your fpirits, and even to have had the fame effect on an old experienced practitioner. No doubt the woman retrieving her fpitits and ftrength after delivery, gave you great hopes of her recovery; but the iffue fhows the uncertainty of human endeavours, and that we fhould never be too fecure. I commonly, in fuch cafes, to prevent and carry off a fever from inanition, order repeated dofes of the bark. Your managentent of the third cafe was alfo very proper; and, as you obferve, the forceps fhould never be ufed but when abfolutely neceffary. Indeed, when the head is folow in the pelvis, that you are certain of fucceeding, and the pains gone, or too weak to force out the fame, that inftrument fupplies the place of hands, when the fingers lip and cannot take a proper hold; but evell then, the head ought to be brought along in a flow manner, and as the pains would have acted, if they had been fufficiently ftrong. - Dear Sir, go on and profper, and continue to write me when any more dificult cafes happen in your practice, which will much oblige, your's, \&c.

## $N U M B, I H . \quad C A S E S I$. and $I I$.

Women ctiacked with convinfons; the childed delivered preternaturally.

AMIDWIFE fent for me in the morning to a patient whom the had attended all the foregoing night; and who, without any accident, or previous warning, was all on a fudden thrown into fits. At firt they only returned every two or three hours, but afterwards more frequently. The woman had till along beerif ftupid and fenfelefs. The midwife told me that the patient was in the beginning of the ninth month of her pregnancy; that the formerly delivered her, when the had an eafy time, and no fuch complaint; that the mouth of the :romb was a little Open, lut fhe had not found any thing like labour-pains. Soon after I came, the fell into a fit, during which I examined, and found the os uteri a little open, and that the convulfion feemed to act with the fame kind of effort as a labour-pain. As her pulfe was full, I ordesed ten ounces of blood to be taken from her
arm, and a blifter to beapelied to her back. No medicine could be given internally, as the could not fwallow any kind of nourifhment fince the firft attack. In about four hours I was again called, on account of the convullions recurring more frequent and violent, and found the os uteri fofter, and much more open. Although, as before obferved, there was no appearance of labour, yet the violence of the agitations and ftrainings in time of the fits, might have proved fufficient to deliver the child; but I was afraid it was dangerous to allow the convulions to go on longer, and was perfuaded that a fpeedy delivery was the only probable method to fave the patient, as well as the fetus. After informing the friends of the danger, and the neceffity of relieving the woman by delivery, and having placed the affitants to keep her in a firm pofition, I with great eafe introduced my hand through the os uteri, broke the membranes, turned the child, and delivered it by the fect.

The child was alive, and the mother had not another fit after the delivery; but he remained Itupid and fenfelefs for three days, then becam ${ }^{e}$ gradually more and more fenfible, and would not believe for fome time tha ${ }^{\text {t }}$ the had been delivered.

Some time after, I was called to a poor woman near the Seren-Pials, and was tuld by the midwife, that the patient was come to her full time, that labour was jult begun, and at every pain the was thrown into a violent convillion fit. The pains were not frequent, the was fenfible between the fits, the os uteri was a little open, and the head of the child prefented. As her pulfe was quick, I ordered twelve ounces of blood to be taken froun her irm, and a large blifer to be applied on her back, betwixt the thoulders; a clyfter was alfo adminifteret, which gave her a plentiful paffage. This was in the morning, and I defired the midwife to fend for me if the fits did not abate, or return with greater violence. In about two hours after I left the houfe, they again fent for me, but being then engaged with one of my own putients, Ifent one of my oldelt pupils, and defired him, if the convulfions did not abate, to deliver the wonjan im nediately. At firlt he found the patient in a dofing or conatofe way, but foon after the was attacked with a violent convulfion fit: he told her frien is that it was abfolutely neceffary to deliver her immediately, and that I recommended this method to fave her life, which was in imminent danger ; the madwife was of the fame opinion, but the woman's hufband and filter would not confent or allow him to do any thing until I could come to her affiftance. On my arrival in the evening, I found the putient was in a comatofe flate, and noiv quite infenfible; the fits more frequent, with tremors and fubfult. tend. On this I told the friends the uncertainty of faving her; and was forry to find that they had prevented the gentleman from alititing before it was too late. They now begged that I would do all I could to fave the woman, and allowed me to fend for fome more of my pupils; the gentleman who was with her in my abfence, told me, that the convullions had dilated the os uteri a little every time; however, it being her firf child, it requircd fome force and time before I could ftretch it fo as to pafs my hand into the uterus; this being effected, and having broke through the membranes, I brought down the legs, and delivered the child; but have forgot whether it was alive or dead. The cafe was rot fo fortunate as the former; for although the placenta came eafily along, and the uterine difcharge was fufficient and moderate, yet the convulions were not reftrained ; but becoming more frequent and violent, carried her off in, two hours after delivery.

## CASES III. and IV.

IWAS fent for by a midwife, who told me that her patient's labour had gone on exceedingly well until the waters came off; but foon after that litppened, the was attacked with ftrong convulfions, which went off, and returned evcry time when a labour-pain began to come on. The os uteri was fufficiently dilated. The head of the fotus prefented at the brim of the pelvis. The woman's pulfe wạs very quick, and her face uncommonly florid; on which account 12 ounces of blood were taken from her arm. But finding this avail nothing, and the convulfions growing more violent and frequent, and the head not advancing in the leaft, I thought it moft expedient, in this uncommon cafe, to deliver by turning the foetus; which I eafily performed as the waters were not all difcharged from the uterus. The child was alive, and the woman had not another fit after delivery.

Another time, a young woman come to her ful time was taken with violeut convulfions when fhe fell in labour ; for which the was immediately bled, and a clyfter was given, which had the defircd effect. Nervous medicines and opiates were alfo adminiftered; the laft to allay the pains that feemed to bring on the fits; for every time a labour-pain came on, the was thrown into convulfions. The os uteri was oper about the breadth of a crown-piece, and a hard unequal fubftance being felt, at firt made it uncertain what part of the child prefented. She was ordered to drink plentifully of weak green tea, and barley-water with fal. nitri, fweetened with fyrup of althea. In about three hours after this prefcription, the os uteri was much more dilated; and on examining, I found that the forehead and eyes of the child prefented; the violence of the fits had abated after the bleeding and the opiate; but were now grown ftronger, and more frequent. In thefe dangerous circumitances, dangerous both from the convalfions and bad prefentation of the child's head, 1 thought it was wrong to delay the delivery any longer. All prefent being made fenfible of her fituation, I had the patient kept firm in bed in a fupine pofition, and gradually dilated the parts; which requircd time, and a good deal of forcc alfo. I brought down the feet of the child, and delivered, though not withour greater fatigue than 1 expected. The child was alive, and, as in the former cafe, the woman had not any more fits after the delivery. She foon fell into a found fleep, and recovered. When I firt introduced my hand into the uterus, and found it ftrongly contracted to the body of the child, I knew it would require great force to turn it ; fuppofing that the wrong prefentation prevented the head from coming along, I made the trial to turn down the vertex; but that failing, I delivered in the preternatural way.

## C OLLECTION XXXIV.

Of preternatural deliveries, in which the membranes weve broken, the waters evacuated, and the uterus was clofely contracted to the body of the fotus.
[Vide Part i. Dogk iii. Ch. iv. Sect. iv, and Anatomiçal Tables, xxxi. xxxii. xxxiii.]

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N U \quad M \quad B . \quad J . \quad C \quad A S \quad E \quad I:
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(1)EIN G called to a woman, I was told by the midwife, that a great quantity of waters had come off fuddenly; and as the child did not prefent fair for the hirth, fhe had defired my afiftance. On examining. l.found the hands and feet prefenting, and come down into the vagina, to-
gether with the funis umbilicalis, in the arteries of which there was a Itrong pulfation. This laft circumfancee I did not mention, becaufe this being the woman's firt child, I did not know whether it could be faved in the delivery. I had learned, by experience, that if the child is mentioned to be alive, and afterward perifhes in the birth, the mother grieves, and imagines it is loft by the unkilfulne fs of the practitioner. As the patient was then in bed, and lying on her left fide, I tried to deliver her in that pofition; but heing prevented by her flying from me, I was obliged to turn her on her back, and acrofs the bed, with her breech to the fide, and her legs fupported by two alfiftants. Having conlined her to this advantageous polition, I gradually introduced my hand into the vagina, and in a flattened form flipped it up backward, between the facrum and thofe parts of the foetus that prefented, into the uterus; there I found the breeck lying at the left, and the head at the right fide; but not fo low as the. breech. As the legs were lying double in the vagina, by hooking two of. my fingers on them, I brought them and the thighs down; and the child being fmall, the body and head were eafily delivered, as defcribed in collect. xxxii, cafe i. and ii. by which fpeedy delivery the child was faved, and the mother relieved from danger. The placenta feparated, and was foon forced down into the vagina by the after-pains.

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C A S E \quad H .
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IW A S called to a cafe, in which the child prefented nearly in the fame manner as the former; only the funis was not fallen down into the vagina; but after the hody was delivered, the head of the child ftuck at the brim of the pelvis, on which I made feveral trials to bring it down into the vagina; but finding the child was alive by the pulfation of the arteries in the funis, I was afraid of over-Atraining the neck, if I repeated thefe trials and increafed the force. The patient being in a fupine pofition, I introduced a blade of the long forceps, that were curved to one fide, up along each fide of the pelvis, whike an affiftant held up the body of the child to give more room for their application; and baving fixed them on the head, and joined the blades of the inftrument together, I introduced two fingers of my left-hand, and fixed them on each fide of the child's nofe, while my right pulled the head with the inftrument, and delivered it fafely. There two fucceffful cafes gave me great hope, that the above method would be of great fervice to fave the lives of many children, who are generally loft by over-ftraining the neck in delivering the head; but a third, in which I failed, fhowed, that we ought never to truft too much, or be over fanguine, with refpect to any particular method of practice; but vary the fame as we find it neceffary. However, although I have not had an opportunity of making any more trials of that kind, yet as I fucceeded twice, the practice is advifeable; efpecially when we arc certain that the child is alive from the pulfation of the funis, or motion of the body, or would prevent overItraining the neck, or avoid ufing the erotchet. Vide table xxxv . of the anatomical figures.-Vide cafe v. of this No. and the viith.

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C \mathcal{A} S E \text { III. }
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IWAS called to a woman in lahour; the legs, arms, and funis, were forced down into the vagina, the laft hanging without the os externum; no pulfation in the veffels; thic waters had come off long before, and the midiwife
midwife had tried to deliver the child, but failing in the attempt, had again folded up the legs and arms into the vagina along with the funis, vith a defign to keep them warmi till I arrived. As the patient was in bed, and lying on her leff fide, I fat down behind her, and found in time of a pain the funis puthed down, without the os externum, and there was, not any fenfible motion in the veffels. This not being the woman's firlt child, and the midwife having alfo fuficiently dilated the paffages, I with great eafe introduced my left-hand along the back-part of the vagina into the uterus, and found the head of the foctus above the pubes, a li:tle to the right fide: the breech was to the left lide, and higher than the head. I brought the legs down froin the vagina, and wrapping them in a cloth, tried in pull down the thighs and body; but the head heing fo low, prevented their defeent. Finding the foctus large, I turned the woman into a fupine palition, as in the former cafe.

I then took hold of the legs with my right-hand, and introduced my left up the right fide of the pelvis to the head of the child, and while 1 purhed it up to the fundus uteri, pulled down the logs father, by which meshod the breech was brought lower, and the head prevented from returning to obiruct the delivery of the body. When the thighs were brought withous the os externum, I turned the fore parts of the child backward; but afterward it required a deal of force, when the body was brought out, io delives the head; and indeed if the child had been alive, it would have run a great rilk of being loft from the over-ftraining of the neck.

## $C A S E$ IK.

IWAS called to a woman who had been iong in hoour ; on examining the part that prefented, it felt very much like the fhoulder-blade; but on the midwife's informing rnc that fome of the child's purgings had come down on the cloths, and examining a fecond time, I found it was one of the hip-bones. Being informed this, was not the woman's firft child, and finding her much exhaufted with the length of her labour, that the parts had been largely dilated by the midwife before I arrived, and learning, on enquiry, that her formerlabours had been quick and cafy, I thought it was pity to keep the patient longer in that diftrefed condition. Having ordered cvery thing neceffary for the delivery to be in readinefs when wanted, I had the patient firmly fecured in a fupine pofition, and on introducing my fiand, found the left hip prefenting, the fhoulder and head near the fundus uteri, to the right fide, and the legs and arms backward. This examination being made, in a flow and gentle manner, I firt tried to bring down both legs, but finding them entangled with the funis, and the child alive, I could only bring down the left foot, which was the loweft; this being rery fippy, and the uterus ffrongly contracted, my hand was fo cramped thiat I was obliged to grafp the foot between two of my fingers, to bring is without the os externum. I afterward brought down that leg and thigh, and tried to bring the other alfo, but was prevented by a frong pain that forced down the left hip into the pelvis; upon which 1 introduced two fingers of my right-hand, and hooked them in the back part of the child's xight groin. Another pain coming on, by pulling at the left leg with my left-hand, and at the above hold with my right, I delivered the child fafely, as defcribed in the breech cafes. The child lay fome time, but rfcovered.

## $C A S E \quad V$.

THE head, in this cafe, was to the right fide of the utcrus; the breech on the left, near the fundus, with the arms and legs backward, as it the former cafe ; but as the uterus was not fo ftrongly contracted; fome of the waters still remained. I grafped the body with my left-hand, and mifing the head and fhoulder to the fundus uteri; by which the breech was brought to the lower part, the legs with great eafe were grafiped and brought through the os extemum:

I had the patient moved in the fupine pofftion. Having brought dowt the body and one arm of the child which lay before the face, I introduced two fingets of iny left-hand into the mouth, as in collect. xxxii. and the fingers of iny other over the fhoulders; then teying to deliver, I could not move the head down after feveral gentle efforts in this manner. I let go my hold of the under-jaw, and tricd Daventer's method, by preffing down the Thoulders to bring out the occiput from below the os pubis; but this failing. alfo, and finding there was ftill a pulfation in the funis, I refolved to try the forceps. I now defired the midwife to hold up the body of the child fo as to give me more room for introducing that initrument; but it being too fhort, and the head above the brim of the pelvis, 1 could not fix them preperly fo as to render them of any ufe to affilt the delivery.-Vide col. xxxv. cafe ii.-This method failing, and the pulfation of the funis beginning to grow languid, 1 again took hold of the child as at firft, but finding the under-jaw like to be over-ftrained, I fixed a finger on each fide the nofe, and flanding up in time of a ftrong pain, 1 cxerted a deal of foree; as the forehead of the child was backward above the projection of the upper part of the Facrum, I hadalready turned it to the right fide, to give more room for the head to come down. Failing in this laft attempt, I refted a little, till another pain fhould return; but they being weak and feldom, and finding the pulfation at a fand, I again excrted greater foree, by which I at laft yot the head delivered. Every method was tried to recover the child as formerly defcribed in parts i. and ii. alfo in collect. xxxii. of this part, but all to no purpote.-Fide cafes iii. and vii. No. i. of this collection.

## $C A S E V$ V.

AGENTLEMAN called on me, when I was engaged with a patient. and defired mc to come as foon as poffible to his wife's aifittance. giving me to underifand, that as the was ftepping into bed, the waters had come off without any previous warning. I defircd him to fend for the midwife who attended in her formacr labours. She accordingly was fent for, and arrived juft in time to flift the patient and put her to bed, by the time I reached the houfe. She told me, that on examining, the found a foot lying in the vagina; but I perecived it was an arm lying double, and I brought the hand through the os externum, to convince the midwife that is was not the part the imagined. Although there had been no labour-pains that the paticnt thought were worth noricing, yet the parts had been fo dilated before the membrancs breke, that I eafily introduced my hand into the utcrus, and found the child's head ahove the offia pubis, the forc part backward, and a little to the left fide. After difentangling the funis umhilicalis, I brought down both legs, but finding I coukd not bring the feet farther than the lower part of the yagina, 1 nipped : noofe over them, as defcribed in my Treasce of Midwifery; then taking hold of the fillet with
my right-hand, I introduced the other to the head; and pufhed it up, while I pulled down the legs with the noofe: by thefe means the head was raifed to the fundus, the arm that was down returned into the uterus, and the child was fafely delivered.

I delivered this gentlewoman once before, when the cafe was much the fame, and of feveral childrea afterward : her belly was fomewhat pendulous; and it was remarkable, that if the membranes broke while fhe lay int bed, the hcad of the fæetus prefented; but when in a fitting or flanding polition, it flipperd over the offa pubis, and the arm came down into the vagina. One lucky circumftance attended thefe, for after the membranes Eroke, the fhoulder filled up the os uteri fo exactly, that there remain:d a fufficient.quantity of waters, by which the delivery was eafily performed:

## $C$ A S E C-ll. Wide Table xxxp:

IWAS culled by a midwife to a woman where the arm of the child was come down, and lying double in the vagina. As the waters were not all come off; but kept up by the fhoulder in the os uteri, I firlt tried to taife the arm, and bring down the head fo as to prefent in the natural way: I made this trial on finding the pelvis narrow, the pains ftrong, and the woman not weakened with the lergth of the labour; but failing in this attempt, I raifed the head and thoulder to the fundus uteri, and after bringing down the legs and body, tried again and again to deliver the head in the fafeft marner. Finding there was ftill a flrong pulfation of the arteries in the funis umbilicalis, and being afraid of lofing the child by overftraining the neck, although I had failed with the fhort fraight forceps, as in cafe $v$. yet $l$ refolved to try a longer pair that were curved to one fide, to fuit the curvature of the os facrum. They were contrived to take a better hold of the head when prefented, and high up in the pelvis; but I did not recommend theif ufe in fuch cafes, for fear of doing more harm than good, by bruifing the parts of the woman when too great foice was ufed.-Vide table xii. and xvii.

The patient being in a fupine pofition in lied, and two affiftants fupporting her legs, I found the forehead of the child was backward, but a little to the left fide of the lowelt vertebra of the loins, which jutted forward with the upper part of the facrum; and gave more room for applying the forceps; wrapping a cloth round the body of the foctus, I raifed it toward the abdomen of the patient, which an affiftant fupported in that pofition. Being properly feated, I introduced my right-hand up the left fide of the vagina, till my fingers reached the left fide of the child's face; then witli my left hand I infinuated a blade of the forceps up to that part. As I withdtew my right-hand to make more room, I flipped the blade farther, that the end of it might reach as high as the upper part of the child's head; then I moved it toward the left groin of the patient, that the blade might be over the left ear, which was at that part; the part of the blade that was bent to one fide was to the pubcs; and the convex part was backwards, to fuit the concavity of the facrum.- Vile table xxxy. My left-hand was next introduced up the right fide, betwixt the facrum and ifchium, andalong on the infide of my hand the other blade, in the fame cautious manner, over the right ear; having locked them together, I introduced a finger of my left-hand into the child's mouth, to keep the face from turning upward; then pulling the handles of the infrument with my right, and increafing the force, 1 brought down the forehead pait the narrow part of the
pelvis ; and tarning it backward to the concavity of the facram, brought she liead through the os externum, by pulling upward over the pubes, to prevent a laceration of the perinæum: There was a fmall imprefion nade by the forceps on the fealp, which difperfed fono after ; the child was ftrong and healthy ; and although I ufed a good deal of force; the mother recovered without anyy uncommon complaints: Since my fuecefs in this cafe, I had another of the fame kind; in which the child was faved by the fame nyethod:-Vide cafc ii: of this collection:- Another ocearred in the courfe of the fame year, in which that trial failed on account of the uncommon largenefs of the head and fmallnefs of the pelvis; there $I$ was obliged to withdraw the forceps and extract the head with the crotchet. Vide collect. xxxw.

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\dot{C} A S E \text { VIII: }
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IWAS called to a woman whofe membranes had broken the right before; the arm prefented, pretty much fwelled, and part of it withodt the ois externum. Finding it was the left, I informed thofe who were prefent of the circumftances, in order to anticipate all cenfure in cafe the child fould not be delivered alive: The woman was laid acrofs the bed in a fupine pofture, two dffitants fupporting her legs, and another on the oppofite fide to fupport her head and fhoulders, and prevent any obftrúction from hands and arms in time of the operation. With much difficulty I introduced my left-hand betwixt the frolled arm and the back part of the vagina to the arm-pit; but it ftill required a good deal of force to raife the Thoulder and head to the left fide of the uterus, fo as to allow room formy hand to pafs on the right fide, along the breait of the foctus, to the fundus, where I fourd the knees; then hooking my finger in the hams, I brought down the legs into the ragina. As the fore-arm was ftill in the yagina, I could not fix the noofe over the ankles, hut was obliged again to introduce my hand; and by puthing up the fhoulders and pulling down the thighs alternately, I at laft, with much fatigue, raifed the body higher. The arm being removed out of my way, I brought the legs without the os externum: the pelvis heing large, the body and head were eafily delivered. The fwelling of the child's arm gradually fubfided by the application of fornentations and cataplafms; but for feveral days it could not move that limb. One of the affitants told me, that finding the midwife pulling with a good deal of force, without being able to deliver the child, they were alarmed; and would not allow her to repeat thefe efforts till I came; they fuppofed therefore this was the caufe of the arm being fwelled fo muck when the child was delivered.

## $C A S E I X$.

IWAS called to a woman who was exceffively wełk, could fcarccly fpeak, and feemed to be in a dying condition. The midwife told me apart, that the patient had been in lahour two days; that when the waters came off the child defcended to the paffage; that as the could not, after many trials, deliver the body, they had fent fior at gentleman famous for the practice of inidwifery; that after many efforis, and waiting feveral hours; he told the friends it was abfolutely neceffary to take off the arm to make more room for the delivery of the child; that the had greatly affifted ing helping hin to twith it off from the fhoulder, and made a great merit of
helping the gentleman. She informed me alfo, that the patient had loft a great quantity of blood all the time of the operation; that all poffible means had been ufed to feparate the mother and child; but as her time was come, all was done that could be done by any mortal.

On examining the arm, and obferving it was not much fwelled, I defired fhe would never boaft of affifting in fuch an operation; efpecially as it had done no fervice in forwarding the delivery. The gentleman, who lived about four miles from the place, had left the woman before I was called, and defired to be fent for when the pains returned, that he might then deliver her; promifing, in the mean time, to fend her a cordial julep. The friends after this information begged of me to deliver the woman if poffible, and not let her go to the grave with the child in her belly. I told them that in all appearance fhe would very foon expire! and as the child was certainly dead, it was a pity to torture her any more; but as thicy were fo in portunate, and as there might be a chance of rccovery, contrary to all expectation, and confidering, that even though the thould expire in time of delivery, it might be ferviceable to the public to expofe an ignorant pretender, who had acquired a great reputation, even in fipite of feveral fuch blunders, I refolved to comply with their requef.

Having ordered the woman to be put in the fame pofition as defcribed in the foregoing cafe, I expected it would requite a great deal of force to turn the child; but was happy to find, on introducing my hand into the uterus, that the refiftance was inconfiderable. I rifed the fhoulder to the fundus, brought down the legs, delivered the child and the placenta; which laft being already detached, followed the body with a large coagulum of blood adhering to it; this laft ftate of the uterus feemed to proceed from the great weaknefs of the patient. Although before delivery, the woman feemed to be infenfible and comatofe, yet after being roufed by the unexpected ncws of the child being born, her drooping firits revived, and the was able to exprefs her thanks for $m y$ relieving her. All prefent were ag:eeably furprifed to obferve how eafily the operation was performed, and fufficiently convinced of the ignorance of the other practitioner. I immediately ordered a little caudle to be given frequently; but although the flooding was now abated, the was fo much weakened and exhaufted with the length of the labour, and great lofs of blood, that the died the fame night, in about two hours after I left the place.

Some years bcfore this incident, when I firt fetiled in pratice, a woman who had formerly been delivered of feveral children, wataken in labour ; the midwife being intoxicated with liquor, I was fent for, and found the arm of the child come down into the vagina; the patient had been many hours in labour, and a flooding had begun; but was abated after the waters were difcharged. I propofed to deliver by turaing, and bringing the child by the feet; but that being a new mectrod, and not known in the place, the midwife and affitants oppofed it, and fent for an older practitioner, who undefervedly had alfo acquired fome reputation in that branch; but inflead of turning, he fatigued himfelf and the woman, by puthing up the arm to bring the head to prefent; and when that method failed, he tried to deliver by pulling at the arm.

Another gentleman was called, who lived at a much greater diffance than the former ; but the flooding had increafed fo much by the former violence, that the patient expired before his arrival ; as he knew monc of the practice, he regretted much that the method I had propofed was rcjected.

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C A S E
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## $C A S E X$.

BEING called to a patient, and examining, I found no part of the fœerus; but after placing her in a fupine polition, and introducing my hand into the vagina, I felt through the integumeqt the haunch-bune and the ribs; infinuating my hand farther into the uterus, I reited a little, and flowly examined the pofition, fo as to be able to take the fafeft and ealieft method to come at the legs, and turn the body of the child. Finding the arms and legs lying double and forward, and the offa pubis of the mother preventing my hand from taking hold of the feet, I turned her from that pofition to her left fide, and on introducing my hand reached the feet, which were ealily brought down, and the child was delivered. The woman lad been two days in labour before 1 was called. She recovered, but the child was dead; as I forgot to cxamine the funis when the body was brought down, 1 could not detcrnine whether it was dead before or lof in deliver. ing the head, which required great force in the extraction.

## $C A S E X I$.

IWAS called to a woman swho had been long in labour, and on examining found, that either the fhoulder or haunch prefented. As fhe Lay on her left tide, I tried to introduce my hand into the vagina in time of a labour-pain; hut on her flying from me, and not keeping in that pofitior, 1 was obliged to turn her to her back (vide collect. xxv. No. i. cafe i.) pretending that a fupine pofition would affitt the pains and the delivers: The friends prefent informing me of her unmanageable difpofition, I had her firmly held by three ftrong women; then I introduced my hand, and felt the left haunch prefenting, with the fore parts of the fectus to the right anterior part of the uterus. Finding, as foon as I infinuated my hand into the womb, that the patient lay quiet, and did not make fuch violent efforts to move from me, and that in this pofition the pubes prevented my arm and hand from turning upward and forward, fo as to take hold of the feet, I defired the affiftants to turn her again to her left fide. During this movement I duift nat venture to withdraw my hand, left fhe fhould renew her violent efforts againt me. Her breech being a little over the fide of the bed, a pillow betwixt her knees, which were raifed up to her belly, and kept firm in this advantageous pofition, I food behind her and began the operation ; the pubes did not now prevent my hands going up to the fore part of the uterus; but the womb being fitrongly contracied, I could only bring down one of the legs into the vagina, By fixing a cloth round the ankle, I moved the child with its head up to the fundus; and being but finall, it was eafily and fafely delivered.

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C A S E \quad X I I \text {, }
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IATTENDED a patient, to whom I had been befpoke; the membranes were broken, and a large quantity of waters difcharged before my arrival. The arm lay double in the vagina, and the os uteri was fufficiently dilated. Having placed her in the fide pofition acrofs the bed, as defcribed in collection xxv. No. i. cafe iii, I by degrees opened the os externnm, which, as it was her firit child, required fome time, by dilating it a little every pain. At firlt imagining the fore parts of the child were to the back part of the uterus, I introduced my left-hand along the back part of the vagina, and in pufhing up the arm and foulder into tho uterus to fearch
for the feet, I found my miftake as to the pofition, and that they were at the fundus and anterior part. Having withdrawn my left-hand I introduced the right, and raifing again the parts that prefented, I pufhed up my hand at the fore part of the uterus, where I found the legs, arms, and funis entangled with one another, that I could not difengage them with my fingers fo as to take hold of the feet. This difficulty, joined with the ftrong contraction of the uterus, which I did not expect would happen fo foon, when the membranes were fo lately ruptured, fo cramped my hand that I was obliged to withdraw it once more. By thefe repeatcd efforts to force up the body, the placenta had been fqueezed and loofened rom its adhefion, in the uterus, and a flooding was brought on. Obferving this fymptom, and confidering that no time fhould be loft, I made a fecond trial in the fame manner as foon as my hand recovered its former ttrength ; but finding the fame difficulty, I definted from attenpting any more to deliver in that pofition. Having turned her on the bed to her knees and ellows, with her breech high and fhoulders low, and the being fupported by affiftants in this pofition, I again introduced my hand, and found the contraction and preffure fo diminifhed, that I at laft, though with a good deal of difficulty, got one of the feet betwixt my fingers, and hrought it down to the vagina: By puthing up the body, and pulling down that limb alternately, the child was fafely delivered ; the placenta followed, and the flooring ceafed.

## $C A S E: X I I T$.

AMIDWIFE fent for me to a woman in labour; fhe told me that the membranes broke foon after her arrival, and fufpecting that neither thie head nor breech prefented, the laad defired the humand to fend for fartherafiftance. As the paticnt wąs lyirig on her fide, I evamined, and. was of the midwife's opinion ; but uncertain what part of the child's body. was over the os uteri. She evaded my efforts in that pofition, therefore was turned to her back. Her breech was brought down to the foot of the bed, while two women fupported her legs and kept her firm, to prevent her flying from me in time of operating, On intraducing my hand, I found the middle of the back prefented, and that the foulders were to the right fide of the uterus. Thele I firit tried to raife to the fundus; but as I endeavoured to come at the breech to pull it down from the cther fide, the fhoulders returned. Finding, after repeated trials, that this method did not fucceed, I fipped up my hand along the back part to the fundus, w: ere I found the feet; and as I pulled thee m down, the back turned upward; after which the child was foon and fafely delivered.

## $C A S E X I V$.

IWAS called carly one morning to a woman who had ftrong labour. The membranes had been broken the night before; although the midwifefound the funis come down, and the chill 1 prefentipg wrong, yet the concealed the ef parriculars, pretending that eyery thing was right, that it muft take a long time to deliver the child; and he would not allow any affititance to IE called for untij the friends inflied upon having farther advice. Wl en a pain came on 1 examined, and found the funis come down without the os externum, pretty much fwelled, without any pulfation; then following it up into the vagina, I felt its adhetion at the ahdomen, and told the fricnds, that the child preferted in a wrong polition, and was not alive.

Hearing this declaration, they abufed the midwife, and were about to expel her the houfe, if 1 had not interceded in her behalf, that fhe might affit the patient after delivery.-Vide collect. xlix. No. 2.-As the pat tient lay on her left fide, and the parts had been largely dilated, either by the midwife or membranes, before they broke I with great eafe introduced my hand, and felt the fore part of the thighs at the left fide of the uterus; anid tracing up higher, I got hold of the legs, which I could not then bring down becaufe of the great contraction of the uterus. My hand being cramped, I brought it lower, and after refting a little, tried to pufh up the breaft and bring down the thighs; but this did not alter the pofition of the child fufficiently' ; and the patient not being kept properly in the fame pofition, I was obliged to turn her to her back (vide collect. xxv. No. i. cafe i.) Then introducing my hand along the back part of the uterus to the fundus, I took hold of the legs, and pulling them downward, the fore part of the thighs and belly turned upward, by which means the body was. brought down; but the child being large, the head was delivered with fome difficulty.

## $C A S E S X V$. and XVI.

S$O O N$ after the membranes were broken, I was called to the firft cafe, and found the breaft of the child forced down into the upper part of the pelvis; expecting it would require flrength to raife and pals it fo as to coine at the legs, I had the woman laid in the fupine pofition.- Vide collect. $x \times v$. cafe i.- Wrapping a eloth round the right-hand and fore-arm of the ch:ld, that were protruted without the external parts, I took hold of it with my left-hand, and introduced my right up the back part of the vagina; then unwrapping the eloth, and letting go my hold, 1 pufhed up both the breaft and the otherarm into the uterus, where I found the head and neck above the pubes, the thighs and legs lying double at the left fide; which latt were eafily brought down into the vagina.

After refting a little, I endeavoured to move round the body of the foetus, by alternately pufhing up the breatt and pulling down the legs; but finding this only fatigued the woman as well as myfelf to no purpofe, I introduced the noofe, and fixed it flowly over both ankles, not without fome difficulty, as the feet were ftill pretty high in the vagina. Having at laft got it firmly fixed, I twifted it round my right-hand, and introduced my lefr, with which the breaft was raifed toward the fundus on the right fide, while the legs were pulled down by the noofe from the left, without t'e os externum; then taking hold of the ankles with my right-hand to pre$y$ ent their being over-ft rained, I raifed the body of the foctu . higher with my left, and by continuing to pufl up and pull down alternately, the head and froulders were raifed to the fundus uteri, the arms returned into the womb, the breech was brought down into the vagina; then both mother and child were fafely delivered.

Another patient had been delivered by a midwife in the evening; and when I was called next morning, I found the right-arm and moulder of a fecond child forced or pulled down without the os externum. The arm was not tumified; but as no pulfation could be felt at the wrilt, I imagined the child was not alive. The neck, fhoulder, and fome of the ribs, as well as the arm, being all without the external parts, I was afraid that it would be impoffible to force up thefe parts of the child into the uterus fo as to curn the fostus and brizg down the legs; this method, however, I re-
solved to try firft; but if that did not fucceed, then to deliver in the manner recommended by Celfus in fuch cafes, viz. to divide the neck, and bring the divided parts feparately. Having ordered the patient to be properly held in the fupine pofition, I tricd to force up the fhoulder, and was bappy to find that, the child being fmall, all the protruded farts returned effier than could be expected into the utcrus; then I brought down the legs and detivered the child, which being alive, I was glad that I had not been obliged to tly to the lait refource.

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Fibr children jing avith the fuperior parts to the os uteri; the fect and berect ${ }^{6}$ to the fundus; the waters conactuated, and the uterus cont rated in form of a longibs heath.

1WAScalled to a woman in lahour. The waters were difcharged the day before my arrival. On examining, and finding the head of the child did not prefent, I had the patient laid in a fupine pofition acrofs her bed; introducing my right. hand into the vagina, I felt the moulder; and in xaifing it, obferved that the fore parts of the foetus wene to the right fide of, the uitrus, and the head turned up above the pubes. On this information, I was obliged to withdraw my right-hand, and introduce the left; while I tried to infinuate it betwixt the breat of the child and the right fide of the uterus, I found this latt fo ftronyly contracted, that I was obliged to bring miy hand lower, and pufh up the thoulder and head to the left fide, ta give more room for my hand and arm ; thefe parts not moving round, I again forced my hand up along the larealt, and by degrees reached the thighs and legs, which were folded double on the belly of the foetus, As my hand began to be cramped, I relted a little, and the ftrength of my arm being fomewhat recovered, l pufhed up my hand tarther and farther, to make more room for taking hold of the ankles; this I at laft accomplifhed, and brought the feet down to the lower part of the uterus; but the great force which I exerted loafened the placenta, and brought on a flooding. Have ing withdrawn my left-hand, I introduced the right, with which, by pufhing up the fhoulder, and pulling down the legs alternately, I at laft moved the body round, and the child was delivered, but not without changing hands three or four times, which were much fqueezed and cramped by the ftrong contracion of the uterus; I was alfo, during the operation, obliged to alter my own pofition, from fitting, to kneeling and fanding alternately, as I found it neceffary. The placenta followed the delivery, and the fluoding ecafed; the child was alive, contrary to my expectation, confidering the great force and fqueczing on the breaft and abitomen, before I could bring down the legs. Thi patient being aftrong healthy woman, was not runk by the flooding; which was of fervice in relaxing the uterus, and by emptying the veffels, helped to prevert an inflamation.

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The righe foouller of the child perefenting; the legs againf the fore part and


IWhS eallat to a perfon whom I had delivered twice before, whofe pelvis was narrow and diltorted. When befpoke to attend a third sime, I was tunder no fimall anaicty, on account of the difficulty that at-
rended her labours; but more fo, when called and examining, I found that the head of the child did net peefent. The membranes had not broken, but in time of a labour-pain were pufhed down to the lower part of the vagina; and the mouth of the womb was largely dilated. After confidering the cafe, I refolved to try in time before the membranes broke and the waters came off, eithcr to bring the head to prefent, if large, or if the child was fmall, to bring down the feet, and deliver in the preternatural way; but while the bed was preparing, a trong pain came on, which broke the membranes, and a very large quantity of waters was difcharged on a fudden, the patient being in a tranding pofture. The nurfe having put her to bed, her breech was brought down to the feet of it, and the was laid on her left fide; this pofition being moft advantageous, on account of the projection of the diftorted bones, which would have prevented my hand going up if fhe had been in the fupine pofition. Having feated my felf a little behind the patient, I introduced my right-hand into the vagina. The Shoulder prefenting, and the head to the right fide of the uterus, I endeavoured to pufh up the firft, and bring down the laft, to prefent in the natural way; but finding the frong contraction of the uterus prevented my raifing the fhoulder fufficiently, and that the dippinets of the head evaded my fingers, fo that I could not alter its polition, I gave up all hope of fucceeding in that manner; for when the membranes broke, the diftorted bones prevented the fhoulder coming down to fill up the paffage, and keep up fome of the waters. Finding the contraction of the urerus fo ftrong, and the ftrainings of the patient fo great, that I could not reach the feer, I caufed her to be turned to her knees and elbows, to prevent farther ffrainings; while She was kept firm in this pofition by the affitants, I introduced my hand again, and finding the refiftance lefs, I pufhed it up gradually along the fore part of the uterus, where I found one of the legs, which i brought down ; then puthing up the fhoulder, and pulling the limb alternately, as in the former cafe, 1 extrated it without the os facrum. By this time I was pretty much fatigued, and refted a little. The woman complaining of the uneafy pofition, I had her again turned to her qude: having fixed a noofe round the ankle, and twilted the other end of it round my right hand, 1 introduced my left to the face and fore part of the neck and breaft of the child, which were at the under part, and right fide of the uterus; by pufhing up thefe, and palling at the fame time the legs down with the noofe, I brought the breech lower, and the head, with the breaf. to the upper part of the womb.

Having withdrawn my left hand, and confidered that there was ftill a greater difficulty to overcome in order to fave the child's life, hy bringing the head through the paffage of thefe diftorted bones, I moved the patient into the fupine pofirion, as deferibed in collect. xxv. cafe i. This adteration afforded more liberty to operate with fafery than could be procured in any other. Wrapping a cloth round the child's right leg, I begau to pull: and by the affitance of the mother's efforts, brought down the hip to the lower parts of the pelvis; then introducing the fingers of my left-hand over the other hip into the groin, and pulling with both hands, I brought down the body to the arm-pits. Finding, by the pulfation of the funis, that the child was alive, 1 nipped my right-hand up along the brealt, to feel the pofition of the head, which was ifill high, and above the diftortion, with the chin to the right fide; but not being able to bring the head or moulders lower, I withdrew my hand. After having brought down both arms, I introduced my left-hand, and the head being a little lower, I
hooked two fingets in the mouth, laid the body of the child on that arm, and fixed the fingers of my right-hand over the floulders, on each frde of the neck. Haring taken a firm hold with both hands; I tried; in a flow and cautious manner, to bring down and extract the head, by increafing the force gradually; moving the face of the child backward and forward, fomctimes altering my fingers from the mouth to the fides of the nofe; fometimes quitting dgain thefe holds, and trying Daventer's method, by prefing down the fhoulders; to bring the occiput out from below the offa pubes. This method not fucceeding, I again introduced my fingers to the mouth, but after exerting greater force, and pulling the body of the foctus upward, downward, and from fidc to fide; 1 was obliged to reft, and began to defpair of faving the child's life. The woman all this time behaved with great courage, and affifted with all her ftrength, hy forcing down when I defired. As there was ftill a weak pulfation in the funis, I refolved to make anothcr effort with all my frength, by which the head was moved a little lower; then forcing up my fingers to the forehead, I got a firm hold on it, and finifhed the delivery.

The force ufed in turning the child had loofencd the placenta, arid brought on a large difcharge of blood, as in the former cafe, a circum: ftance which commonly hapfens in fuch deliveries. As the after-birth fotlowed the delivery, I wrapped it in the receiver with the child, and laid all on an affiftant's lap near the fire, without tying and feparating the funis, becaufe Iftill found a crecping motion in the arteries: After having moved the patient from her uneafy pofition, and farther up front the foot of the bed, I tried the common methods to affift the recovery of the child. Soon after the infant fhowed fome weak figns of life, and in about ten or ffteeni minutes began to cry, and breathe with more freedom: that which had the greateft effect, was whipping his little breech from time to time, for which Lak pardon of my old friend and preceptor Dr. Nicholls.

As 1 fufpeeted that the neck was over-ftrained in time of delivery, the head was gently preffed toward the fhoulders; on the recovery of the child, I examined the mouth and all the limbs, to find if any thing was amifs. The infant continuing to cry inceffantly while the head was wafhing, I examined, and perccived a large tumour above the right ear; I likewife found a depreflion of the temporal bone before the ear, and the frontal and parietal bones pufhed outward; thefe formed the fwelling, and were the parts that fopped at the diftorted bones of the vertebra. On preffing the tumour with my fingers, the child was quiet, but on removing them from the part, the boncs were again pufhed out, and the child fell to croing; by repeating the fame experiment more than once, I wis convinced that this was the occafion of the complaint. Having applied a thick comprefs, moiftened with oil; vincgar, and fpirits, on the tumour, and fecured it with a proper bandare, I defired the nurfe, if this was not fufficient, to continue 10 affilt with her hand as before; for I did not choofe to bind the head too tight, as fuch fits of crying never happoned in my practice, either before or fince. I was glad to frid next day, that the fwelling had difappeared.

The child was fmaller in this cafe than in the former, and the mother recovered better than in any of the preceding labours. The difficulty that attended the delivery of the head, made me refolve to ufe the long forceps, as in No. i. cafe vii. of this collection.

## $C A S E$ III.

BEING enlled to a watchman's wife, the midwife told me that the watters had come off in a large quantity, on which the arm taas forced down into the birth, and the hand appeared without the external parts; fhe had tried different methols to make the chiid (as fhe ignorantly imagine(l) withlraw up its hand into the womb, and change itfelf into the natural pofition; dipping its hand into a bafon of coll water, and alfo in vinegar and brandy; hut finding thefe trials fail, the had recourfe to the lat restiety, befi, re any afiflance from a man-practitioner was thoughit neeeffiry; fhe diretted the woman's hufland to take hold of her legs over his thoulders, and life up her body three times, with her hacis to lis and her head dovinwards; being of opinion, that although the former methods failed of fuesers, this would aniwer expectation. On examining this cafe, I found by the hand and fingers that the left-arm was come down, and that the fore parts of the foetus were probably to the right fide of the uterus. I promifed to fupport the woman in her lying-in; and, on this conideration, the gentlenen who then attended me for their inftruction in midwifery, were allowed to be profent at the delivery. Finding I could not keep the patient in a frrm pofition, when on her fide, I had her turned to her baek, with her breech to the bod's fiet, two of the gentlemen fuftained her legrs; her head was fupported by lying in the midwife's lap, the midwife was feared on the boiter at the head of the bed, to keep her firm in that pofition', and refirain her urns; fo as to prevent her hands from puiling at the alfiftants or the in time of the operation. As the arm of the child was but little fweiled, I cafily introduced my left-hand below it, into the vagina; then puining up the thoulder, infinuated my hand betwist the breaft and the right fide of the uterus; but finding, after feveral ftrong efforts, that I could neither raife the fhoulder higher, nor puth my hand fufficiently up to come at the feet, I altered her pofition in the following manner:-Obferving that the midwife kept the woman's head and fhoulders too high, I made her fit farther up on the bed, that they might lie lower ; but my hand and arm being by this tine eramped and wearied, with working in too great a hurry, I was obiiged to witheraw both, and reft a little. Confidering that my other hand could not, in this pofition of the woman, reach the legs of the child, whieh were at the right fide, I turned her to her knecs :nd ellows, and had her fupported in that pofture li:y the affitants on the bed. Ithen infinuated iny righr-hand, and gradually ftretched the contracted uterus, when I found the feet were turnel up to the breeeh at the fundus. I now endeavoured, with all my firength, to puth farther up, fo as to make more room to take hold of the legs; but the woman being ftrong, and frugeling inceffantly, we could not heep her in that pofition; fo that all my effurts to bring them down proved abortive. This hand and arin laft introduced being likeivile crampel, I was obliged to withdraw them, and I began to defpair of fuceceding without the aifitanee of the erotchet ; but I refolved to make one effort more. Finding we could not keep her fteady in this laft pofition, I had the bed raifed very high at the feet with bolfter and pillows; then fhe was laid again in the fupine pofition as at firt, her breeeh being raifed much more, with her head and fhoulders very low. My left-hand being now pretty well recovered from rhe former fatigue, I introduced it as at fir't, and at lait reached up to the fundus uteri ; I no whought down one of the liegs, and delivered.

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the child, with the affifance of the noofe, as in the former eafe; but with much lefs difficulty; as this woman had a mueh larger and better formed pelvis.

The child was alive, the mother reeovered, and the plaeenta being loofencd in time of the operation, followed the delivery. She continued weak for three or four weeks; and eomplained of great pains in the abdomen and neigibouring parts; but having had large difcharges at firft, and being carefully attended, and kept in breathing fweats, the lochia and milk were fo promoted, as to prevent, in all appearanee, the danger from a violent influmation of the uterus.

Although I had been ealled to many fuch diffieult eafes, yet I was never more fatigued. I was not able to raife my arms to my head for a day or two after this delivery: and one of the genticmen who was prefent, heing of a delicate conflitution, was fo nuch intimideted, that he sefolved never to veature on the practice of midwifery.

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C A B A \quad I V .
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THE midwife told me that I had formerly been with thie fame woman, who recovered flowly after a tedious labour; that this would prove a more dangerous cafe, for that the arm of the child came down immediately after the nembranes broke, on which there flowed from the womb a large quantity of waters. She alfo informed me, that as the hand was without the birth, the had folded it up in the vagina, to keep it warm till I fhould arrive. The patient was then lying on her left fide acrofs the bed, with a pillow betwixt her knees. I moved her breeeh to the fide; then brought the hazd again down out of the vagina, and told her it was the right, to prevent refictions, if that limb fhould prove lame after the delivery. I had found fueh complaints proceed from the midwife's pulling at the arm, and trying to bring along the body in that manner; but this notice being given, the aceoneheur could not be blamed for over-Atraining the limb; and the misfortune would be imputed to preffure or cold, while the arm lay in that pofition. Finding by the arm of.the child, that its for parts would probably the to the left fide of the utcrus, and alfo that the abdomen of the patient was very pendalous, by its harging more than ufual over the pubcs, I perceived that I could operate with greater eafe while fhe lay on her lide, than when lying in a fupine pofition. 1 introduced my sighthand into the vagma; and in pufning up the fhoulder, could diftinguifh, that although the phlvis was narrow, the child was not large; that the breait was forward, but toward the left fide, the head turned back on the fhouldere to the oppofite fide. The contraction of the aterus being very great, it wovld have been impofible to bring down the head to prefent in the naturat wiv; my endeavours for this purpofe would have ferved only to fatigne the patient and my feif with vain labour. My hand being fo far advanceci, I fuhbed it up farther and farther, along the left fide of the uterus, to come at ile legs of the child ; but the patient's head and fhoulders being ton high, this circumitance, joined with the force of the breaft and abdominal mufcies, in lier ferainings againtt mes, prevented my hand going up fuffciently to reach thefe parts. Being afraid to bring down my righthand fiom the contrafied womb, ! nijped my left under her left hip, and by the help of the affilants tursed her to her knces and elbows. Vidd eafe $v$. By this method, both the preifure of thofe parts, and the weight of the child, being much abated, the abdomen funk downward, though at the
fame time her thighs and knees kept the belly above the mibes; at laft my hand penetrating to the fundus uiern, took hoki of the feet betwixe noy ingess ; then puthing the:. down, and pufhing up the hredit, 1, after a good deal of fatisae, brought the legs without he os externum; I now turned the fatime !n her back, and with fatety delivered both her muthe child, aldrough the lead fuck fome time in the palage, and both force and catfion were required to extract it.

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C-A S E V .
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IWAS called to a labourer's wifc. Her midiwife, on pretence of being fent fur to ancher, had left her foon after the incmberares laroke, afo furing all prefent that the child prefented properly; ard the $\beta$ morited to yeturn in time for the delivers; hut on examining, I found both the arms down at the os externum, and the hrent prefenting at the upper part of the vas ina. After e.ery thing neceffary was prepared, I had the patient laid acrofs the hat in a fupine poftion, iiti. her hreech high and her fhoulders low, As tue pelvis $\because$ as large, and the armo of the chini fmali, $I$, in time of the labour- ains, ftreched the external pats, and introcuced my hand into the vagina up to the breaft of the foetus; in raifing this, and exanining the ituation, I found the liead was call back atove the pubes. As the brealt of the child was toward the facrum, I pufhed up ony hand werwixt the abdomen and the back part of the uterus, and then went higher and higher in a flow manner; and by interyais flretching the womb, which was Atongiy contracied, I found the thighs, knees, and legs, doubled up to the fundus; but nut being able to come at the feet, which were caft forward on the breec, I hooked my fore-finger into the hams. ithe parchafe not being fufitient, I let go that hold; and at lan getting one of the feet betwixt m;hecro, 1 breught that leg dowa to the vagina. This was not effecteci without a good jeal of fatigue, in pulling down the foot, and puthing up the breali ; but not leing able to bring down the other, I was obiiged to reft fome rinutes, to recover the tireng th of my hand and arm. H ving precured a fefi garter from cne of the anitants, 1 formed it into a noofe, anci tiord to intioduce and fix the ligature round the ankle of the chilet; but the font was too high to admit its being applied properly. I was again oblited to introduce my hand into the uterus, and by pufting up and pulling de wn as before, bicught the foot without the os externum; then, with the afliftance of the nuofe, I altered the bad pofition, by raifing the heat and brent to the fundus uteri, bringing down the breech of the chilci to the lower part of the womb, as in cafe ii. The arms of the foetus, by this movement, returned into the uterus, and afforded more roon to bring down the other leg. Having wrapped a cloth round boih, and finding, on extrading the thighs and hips, that the belly of the child was toward the fubes, 1 turned them to the facrum. As the body came cafily along, I did not bring down the arms, neither did I introduce my fingers to the face, to turn the forchead into the concavity of the facrum; but by preffing down the moulders of the foetus, brought the occiput out from below the pubes.

The child lay a long time fecmingly dead, but at laft recovered. In the mean time, one of the affiftants improdently telling the patient it was dead, The was immediatrly threun into convulfions, and with difuculty removed from inflant dearh, by applying fimulating things to her nofe; and when The retrieved the ufe of her fenfes, the cries of the child contributed greatly to her recovery,

THE waters, in this cafe, had been difcharged many hours; the head was at the upper part of the pelvis, and did not advance lower, although the pains were itrong and frequent; but as the patient grew weaker, and wan cvery now and then attacked with fainting-fits, the midwife appriced the friends of the danger, and defired them to fond for my affiftance. I had the woman fecured in the fame pofition as deferibed in the foregoing cafe; and in punhing up the face and hicad with my left-hand to the left fide of the uterus, found the fore parts of the child were to the back part of the womb; but in tracing farther up to farch for the feet, the ftrong contraction ci: the uterus preffed the head with fuch force againt the mufcles of my arme, as to benimb iny fingers, and gave me fo much pain, that I was obliged to withdraw that hand. The parient's pofition being altered by her fhrinking from me, I brought her hreech again to the fitco of the bed, and defired the affiltants to hold her in that fituation. Encouraging her, by promifing to do all in my power to fave both the child and herfelf, I introduced my righthand into the uterus, and delivered ncarly with as great force and fatigue as in the above cafe. As the child, however, was large, I could not irring out the haid in that manner, but was obliged to deliver it as ip cafc ii.

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BEING called one morning early, the midwifc informed me that the had delivered the patient feveral times, that her labours were foom over, the children always following the rupture of the membranes; that although the head prefented in this cafe alfo, fhe was afraid the delivery was obiltucted hy a large excrefcence, which the imagined filled up the back part of the pafiage. The waters had come off the day before, and the wom $n$ had been is frong labour all night. When 1 firft cxamined forward, and toward the pubes, I was deceived as well as the midwife, by imagining that the child's head prefented in the natural way; but in making :mother trial in time of the next pain, introducing the firt finger of my risht-hand farther up, and backward toward the facrum, I found an uncommon foft fublance, which I fult all around. At laft, with fome difficulty, I difcovered that it was the face. The cheeks were fo much fwelled, that the eyes, nofe, and mouth, feemed as if buried betwixt them, and the chin was backward toward the left fide of the pelvis. The woman's ffrength being much cxhauted, and the child in danger of being loft in this bad pofition, I refolved to try either to alter the prefentation, or deliver in the preternatural way. Having, as in fome of the former cafes, ordered the patient to be fecured and kept firm in the fupine polition, I gradually dilated the os externum, and raifed the head above the brim of the pelvis; but the contraction of the uterus was fo great, and that part of the child fo flippy, that I could not raife up the face fo as to bring the vertex to prefent in the natural way. The patient had made ftrong ctforts in ftraining down againt me during this trial. I now refted a little, to obferve if the face of the child would come down lower in the pelvis, fo that I might be able to affir the delivery with the forceps; but after waiting fome time, and the labourpains being weak, 1 at lait, by ufing a good deal of force, pufhed up the head to the fundus uten. The legs were brought down, and the child delivered as in the former cafe. The face was livid, and excefirely fwelled; but thefe appearences went off in a fere days.

## $C A S E S$ VIII. and IX.

BEING called to a woman, the midwife informed the that the waters had been coming for twenty-four hours, and although the had tried feveral times to affift the delivery, by fulling at the arms of the chifd, which were come down before the head, yet the prefenting parts fuck fo fait in the bones (meaning the pelvis) that the could not bring them lower; and therefore had, as it was a defperate cate, fent for my alfance. On examining, I found woth arms come down inach $\lceil$ elled, and back ard toward tre facruan, with the head advanecd a little, is a conical form, at the fore part of the pelvis. Confidering thefe circumfances, obforving ihe patient greatly exhauned with the leayth of the labour, the pains weak, nd being certain that the child was fill alive, from the motion now and then of its little hands and fingers, 1 refolved to deliver, if fomble, in the preternatural inethod. Having ordcred the woman to be laid a rois her bed, and fecured in the fupine pofition, I introduced my land mito the ..gina, and pufned up the child's head to the fonsus uteri, thea the arnn seturned into the womb. After much fatigue, I brought dowa the feet fom the back part of the uterus, and delvere 1 the infint, as in the forme caic. I did not know, at this time, the method of fixing a noofe an the andles; therefore the operation was the more tediou, in tinfong up the boiy, and puling down the legs fuficiently without the os exter.um, fo as take a proper hoid of them with my other hand. In this operation I was ouliged to reft eve, prow and then, and alfo to change my hands feveral trmes.

The patient recovered; bur from the ignorance and impurace of the midwife, in mut fomiling fooner for mitance, the helplef, chid lay mozning and crying for many hours before it expired; for by her pulling at the arms, they were fo over-ftemined and tumified, as to bring oria mortification of thefe parts.

In the other cafe I was coitain, as well as in the preceding, that the child was alive, by feeling a ftrong puifation in the vellels of the umbilic. I cord, whichlay in feveral folds at the left fide of the pelvis. The midwife informed me that the had felt the fame motion inmediately after the nembranes broke; that the head of the child, alhoush a large ghantity of waters had been difcharged, fillikept high; and that heing afieid, if the 3abour was tedions, the child would the Inft, the had defired the fricnds to have reconfe to my affitance, more cipecially as the woman's former labours were common!y todious, thongh fati. As the patient was tien lying in bed, on her left fide, and kept tteady in that pefition, I intonduced my right-hand into the vaghe, ant examining the poftion of the child's head, found that the vertex prefented, with the formancle to the fame fici: of the pelvis, where the funis was come dovis. Aficr thas enquiry, I pufined up the head, and tried to fip and pafs the cond drove it, to prevent the preflure and obftruction of the umbilical veffels, wit finting, as $!$ pothed II) the different folds of the funis, they again returned sieernately, and eluded all my endeavours to raife them fo an the remsin ahose the firchead and face of the child, I had recourfe to another method; 1 introduced my hand into the uterus, and celivered in the preternatual way, as defcribed in cafes vi. and rii. of this collestion. When the head is not micommonly large, nor the pelvis narrow, this method of delivery fems mo: advifable to fave the life of the child; for un?efs a very fratl part of the funis is come down. it feldom can be flipped up on hish as.to prevert the proffure of the head, and obitruation of the circulating fluds in the umbilical vellels.

## $C A S E X$.

THE patient I had formerly delivere? twice of dead chithren; her pelvis was narrow, and ditorted at the upper part of the facrun. She had both times been long in labour, and muchexhaufted before the friends defred $m y$ affitiance. The litads of bith icenties were fouzezed down of a great lengeti, and fo engated in the pelvis, that fne coukd inot be delivered with the ahistance of the hific in time of the weak pains. As the waters had been long difcharged, and the uterns was frornly contaned, it was inpofibie to puth up the heals fo as to apply the fllets to anvantage, or to turn the chiteren, to as to dehiver dea in the preterratural method; butat laic, afier waiting a conficinule time, i had been olfiged to open the hards with the feffius, and extract with the afifance of the blunt-hook. -Vide col. xxxi. cafe viii. - is it reguired a conicierable force to deviver, after the heads were diminithed by the large difcharge of the conents, $\bar{k}$ ghantion much, though 1 had then knom $n$ the ufe of the forceps, if 1 could have faved then with th t inftrumbt; for 1 can very wail renenber the fatigue I endured at the fe t.ro labmers.

As a ridiculous opinion prevails among the vulgar, that there are certain semedies to procure barremefs, and indeed fuch deforibed by many of the oldeft authors, the woman's huband, and fome of their insends, called on me foon after the fecond delivery, and begged I would preforibe fona nedicines of that natu ce. I achondedged my ignorance of the effeits of any fuch medicines, and dented them not to throw away money in going ahour to any fulfe pretencers to fuch fecrets, but $t u$ fend for me at the beginaing of the labour, if his wife huold again prove with dild. My advice was taken, and I was called accordingly; tutheture I arived, the membranes were broken, and thot of the waters difcharged. Un camining, ifound the head of the child refting above the pube., not, as in the former cafes, forced down into the pelvis. Althuagh it required much force to deliver the body and head in the preternatural way, yet this being fmaller than any of the fumer children, it was happily' faved; but I beglected, at this time, to examine if all the limbs were found. The father calling on me about thiee months after, told ine the child had not the puwer of her left arm. Some weeks after this vifit, happening to be in that part of the country, I found the fhoulder lund been dinforated in time of delivery, and endeavoured in vain to relluce is.

I was again called a fourth time to deliver the fame patient. I turned and brought this child the preternatural way ; hur it being mueh larger than the lat, was lot ly heing obliged to tear down the heal with the tharp erotchet. After I fettled in London, a genteman who fucceeded me in that branch of bufinels, wrote me that he had delivered the fame patient, but that he could not pofmbly fave the child. The faid woman was delivered of her laft ehild in the fame manner l had chofen the delisery of the twa firt children.

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C A S E X I .
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"HF woman had been delivered of her firt child by anosher practitioner, who was ntliged to open the head of the feetus, und extratt it with the anfitance of the croteliet. When the was in lathour of her fecond child, and only gone feven months, I was culled, and as the arm prefented, delivered and fared the fatus, by bringing down the legs, and extrating the body and lieaid in the preternatural nethod. In her next pregnancy, fo
went on to her full time of reckoning. Being ealled to her fome hours after labour had come on, I found the os uteri lar gely open, the membranes broken, and the heat of the child prefented. As fhe was then in bed, and ! ying on her left fitie, I had heit turned to the right, that the uterus might be more in the middle, and give the feetus a fraighter pofition, to be forced along with the labour-pains; but the head did not advance. Confidering that the farf was lott by waiing for the ratural delivery, that the fecond was faved by the preternatural method, and as this, by the touch of the head, felt fmail, I thought it afer to turn, apprehenfive that the patient being weak, and of a confumptive contitution, fhe would not have ferength to force along the head through fuch a difterted pelvis.

Finding that this pofition was uneafy to the woman, I had her again turned to her left fide; but introducing my right-hand into the uterus, and finding the legs of the foetus to the right fide, without being able to reaclu them in that polition, I was obliged, by the aid of the affitants, to place her on her knees and elbows, aceording to Daventers's method. The nar--row pelvis cramped the mulces of my arm fo much, that with dificulty I got my hand fo high as to bring down the legs; then I turned the fatient to the fupine pofition. The woman having been much fatigued, I dxave her a cup of warm wine, with ten drops of tine theoric; but a flooding coming on, I was obliged to deliver the child immediacty ; being larger than I expeited, it was lat in exrracting the head. The force exerted in aurning the child had difengaged the placenta, which was the occafion of the flooding. The pelvis was fo narrow, that although I afod all the precautions deferibed in the former eafes of this collection, yet I could not deliver the head fo fortunately as in my former attendance on this patient As the mother recovered with great diffieulty, 1 was forry, on rellection, that I had hazarded this method in fo weak a patient; I wihed I had rather waited the efforts of nature; and if thefe hai proved infofficient, that I had affed the forceps, when the head came low down in the pelvis; or at leat, if all her efforts had been infufficient to render that amitanee practicable, that I had delivered the child as in her firt pregnancy,

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## By Mr. Aires, of Bofon.

THF , woman wras attacked with colic pains and eonvulfion fits. He was obliged to hring the child footing, from its prefeating with the arm ; this he eaflity cffected, till it was extracted to the floulders, where it fluek pretey mueh, and gare him great trouble in bringing down the arms. Then hetried, winh his fingers in the mouth, to detiver the head, by pullt ing it upward toward the pubes; but tading a great refitanee, and pafting his fingers farther up, he found the placenta down in the back part of the pelvis; which laft being very ftrait, had forceal the heall So againte the pubes, that it reffited all the feree the durit apply. Fie then iniroducod a finger between the heal and that 'one, to difengage it ; but it anfwering no purpofe, he feated himfut on the fion of the roon, and ordering the woman's breech to be brought a little weer the fite of the bed (he lying in a fupine pofition) he deliverel the head by pulling the boly of the child downward. The child wras deal, and, lackily for the woman, finall in fize; fo that fle recovered very well.
C.ASE

## $C A S E$ XIII. and Supplencht to C A S E ILI.

From Ir. Durban....-Vide Collect. xxxiii. $\mathbb{N}^{\circ}$ ii.

IWAS called to Mrs. S. a well-made woman about 35, who had feveral children. I found with her two midwives, who acquainted me that the waters had been come away about eight hours. Her pains werc ftrong and quick. Upon touching her, I found a hand prefenting in the vagina. While endeavouring to dittinguifh which hand it was, it protruded through the os externum to the elbow. This was the firft cafe that offered to me in this country; and as I was apprehenfive the head inight perplex me if I delivered footling, I cndeavoured to return the limb, and facilitate the natural delivery of the infunt. The limb could be returned into the vagian only, whence it often protruded. The contraction of the uterus was too fitong to admit my changing the pofition of the child, by forcing up. My hands became cramped, I was oblized to quit that attempt; bat during thefe endeavours, I difcovered that the fhoulder and bactry prefented, with the head lying to the left ilium. After refrefhing my woman with cordials of her own, and encouragernents, while I refted my hands, 1 fearched for the feet, which werc quite up at the fundus uteri; thefe I fecured between my fingers, and the arm re-entered as I brought them down. When I had them jult wihout the os externum, I wrapped a peece of fine cloth about them, and held them gently, drawing with one hind, while I endeavoured to afift the pofition of the face with the other llipped up along the fernum. I found fome cunfiderable refittance pufh up the hips a little, and gave the quarter-turn. 1 then proceeded, and delivercd the infant, with a turn of the umbil cal cord about its neck; this I divided intantly, and extracted the placenta. Afier refting a little while from her fatigue, my patient was' put to bed; the child lived about half an hour.
$C A S E$ XIV. and Suppicment to C A S E III.
Iin a letter from $M r$. Mutge, Plymoutb.

HE was fent forte a woman who had been four days in labour, and the waters had paffed off three days hefore. He found her very weak, and her pulfe was very much depreffed. On touching her, he was very much furprifed to find the arm hanging out of the os externum, and the fhoulder quite filling the moath of the uterus; it was extremely fwelled, and quite black with the violence it had fuffered for three days fuccefively, by the rude pretended affiftance of the midvife. The cord came down by the fide of the arm, the pulfation of which was evident enough.

He without great difficulty (the pains bcing luckily ahfent) pufhed up the breaft of the child, introduced his arm quire to the elbow into the uterus, before he could come at the feet, which he took hold of. The arm foon went up, and the delivery was accomplifhed; he wrapped up the child's arm in port winc. It was a flout boy, and both it and its mother did very well. No labour could have a more unpromifing appearance, and yet it turned out very eafy; the whole did not laft above fix minutes. Mr , Chapman, in his Treatife of Midwifery, page int, relates a cafe, i! which the arm was taken off; the child was alive, and lived to be a man.

## CASEXV. and Supplement to C AS E IV.

 In a lettir from Mr. Mudge, of Plymoutb; quitb an anfiver.HE was called to a patieat an hour after the membranes were broken She had fome flight pains; but he could not, in examining, reach any pare of the child. After fhe had been two days in a lingering way, he at laft felt fome part prefenting like the nates. She had not felt the child ftir for many hours, and the meconium hegan to come off; although the pains gyadually increafed, yet the child did not advance. The patient's fitrength failing, he laid her acrofs the bed, and introducing his hand into the vagina, found that the right fhoulder prefented, with part of the arm, not fallen down into the paffage, but lying acrofs the os uteri. He then inlinuntea his hand into the uterus, along the belly of the foetus, to fearch for the feet, and with great difficulty got down the left leg; but could not bring it without the os externum fo as to get a cloth round it, in order to affift the turning. . He tried the noofe feveral times; but it would bear no great force without nipping. A flooding coming on from the great force ufed in trying to hring down the other leg, which, with the brecch, hung over the pubes from the abdomen, being very pendalous, he changed hands, the right being exceffively farigucd, and endeávoured to come at the other foot with his left-hand ; but it was quite out of his reach, nor could he in the leaft turn the child at all; though he pufted up the fhoulder with great force, while he tried at the fame time to pull down the leg that was in the paffage.

All this time the woman was bleeding exceffively, and he was afraid every moment that fhe would die under his hands. He then fent for the largeit fized forceps that is ufed in extracting the trone, and laid hold of the leg with them ; but after feveral fruitlefs attempts could not move the child. He was almoft fatigued to death, and in the greateft anxiety of mind to think he fhould fee his patient die under his hands. He determined to make onc final attempt to come at the right leg; he inttoduced his hand and arm into the uterus, and pufhing ftili higher and higher, he at laft got his armi fo far till his elbow was in the middle of the pelvis. By which means he had now an opportunity of bending his arm over the os pubis, and got holl of the foot, which he immediately grafped and brought down to the paffage. The buttocks following, he foon delivered the child, which was very large and dead. The placenta was foon delivered ; the flooding ftopped at once, and the mother did well.

> The anfwer to the furegoing letter.

I HAVE had feveral cafes wherein I have had much the fame difficulty, and have been greatly fatigued before I could bring down the legs; efpecially in pendulous bellies, where the legs of the child were to the fore part of the uterus. The woman is kept much firmer when laid in the fupine pofition, and you come at the legs eafief when they are toward the back part or fides of the utcrus; but when at the fore part you find them better, by having the patient lying on her fide; becaufe then you can ftand behiad, and your arm is not interrupted by the pubes fo much as when in a fupine pofition. I have alfo of late found, where the belly has been very pendulous, and I could not reach the fect eafily in the fide pofition, that by turning the woman to her knees and clbows, I came much readier to the feet, as thit pofition takes off the gieat preffure of the uterus and child. This was Daventer's method; and to confirm you in this practice, Ifend you a
paragraph of a letter from Dr. Gordon in Glafgow, who is my old acquaintance, and fenior practitioner in the art of midwifery. I had before that wrote to him, and defired the favour that he would communicate to me the moft material things which he had found in his practice that might be of ufe to the public.

The following, I own, has been of yre to myfelf; having oftener ufed his method fince than formerly, efpecially where the abdomen is pendulous, as your cafe was :-He writes, that one of the principal things to be known in midwifery, is the pofition that the patient is to be placed in when you want to turn the child and deliver it by the feet ; and that is to place her on her knees and eibows, with her breech raifed higher than her head ; for you operate much eafier with your hand downward than you can do with it upward, when fhe is laid on her back; hefides the weight of the child affilts you when you pufh the body back, in order to get hold of the feet. He fays he always found this the beft pofture, until the feet are defcended to the os externum; whell he turns the mother to her back and deliyers her.

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\text { In a letter from } M r . \mathcal{F}-\text { dated } P \longrightarrow \text {. }
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HEwas called in by another practitioner, where the chin had prefented, The firt had feveral times tried'to deliver with the forceps, and broke the lnwer jaw with his fingers, He then effayed to turn and deliver it by the feet; and in endeavouring to bring down one leg with great force, it was pulled off; a flooding coming on, and his itrength being quite exhaufted, the other was called. The woman's ftrength i: as almoft gone. He introduced his hand inco the uterus, and after gieat fatigue and fweating, he got hold of the other foot; over which he fixed a noofe, which he twifted round one haind, while with the other he raifed up the head and breaft, and got the body delivered. It fluck at the fhoulder, but by giving it a quarter-tum the obftruction $w$ as removed and at laft the head was de. livered, though not without a good deal of trouble and caution ; on account of the largenefs of the head, and the bad hold at the broken jaw. The child was dead, and the woman expired in feven or eight minutes from the great flooding. I wrote him, that no doubt the gentleman, fince he did not fucceed with the forceps, ated right in trying to turn; but then, when it required fo great force (which undoubtedly brought on the fatal hæmorrhage) it would have been fafer for the woman had he opened the heat as it prefented, and extracted with the cratchet. However, it is impoffible to julge. except when prefent; and we are too ready to reflect, after an unlucky cafe is over, that another method would have been better; though we acted thep in the beft of our judgment.

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C A S E \text { XVII. and Suppliment to } C A S E I I_{0}
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## By Dr. G. of L..--Vidę Co!!ect. xxxy. Cafes xxi, and xxii.

THE woman rias about thirty; had been rickety in her youth, one - Thoulder at hagher than the other; one of the offa pubis was confiderably farther protruded than the other. Beiore he wa called the had been three days in labour. Ite mouth of the womb was largely open. The bead was well advanced in the pelvis. She had frequent pains; but the head
head did not advance farther. On introducing his hand he found a great moilture, and withdrawing it perceived it befmeared with neconium; whence he told the by-ftanders; that the child was either dead or very weakly. On enquiry, he was told that there had been no ftoppage of urine. The pofition being fuch as favoured the ufe of the forceps for extracting the child, he introduced it accordingly, not doubting to find an eafy delivery, as he had ofen feen and experienced with the help of that inltrument ; but, contrary to expectation; he could not move it with all his force. After this he withdrew the forceps; and raifed the head of the child ; on which the urine flowed out to an incredible quantity: Believing. the difention of the bladder had hindered the head from advancing, he again tried the furceps, but could not mend the matter. On examining; he found he could introduce his hand without much difficulty; he then turned the child, and extracted it by the feet, after being fatigued almoft to death. The woman recovered.

He defired my opinion of the labour ; and begged to know if I thought it not always fafer in rickety patients to turn the child. I wrote to him, that I had oftener than once, in the beginning of my practice, in thofe cafes, brought the child footling; and although I had fometimes fucceeded, yet In others; I could have wifhed, after the head was turned up into the uterus; that it were ftill in its firf place; becaufe when the body was delivered, the head fluck fo above the pelvis, that it was not poffible to fave the child; and the parts of the woman were fo bruifed, that if the did not die, fhe recovered with great difficulty ; that no doubt it was our duty to do all we could to fave the child, but not fo as to endanger the woman's life; however, in this cafe, as he could fo eaflily introduce his hand, I thought it was right to try that method to fave the child's life.

## $\dot{C} \dot{A}$ S $\dot{E}$ XVIII.

From Mr. F. Gibjon, Surgeon, in Harwich.

IWंẢ called to a young gentlewoman of delicate confitution, in labout of her firt child. The midwife had been with her the greater part of the preceding night. She told me that the waters broke at five in the morning ; that the patient had no pains fince, except a few flight ones, which were chiefly in her back and loins; that the parts were fo tight the could make no way for the child; but the felt nothing uncommon. Upon examination I found the os externum fo tight, that I had farce room to introduce two fingers ; but with my firf, I felt the arm much fwelled, and far advanced in the vagina in a doubled form, the fore-arm being rcfected upward. The os̀ cxternum felt thick; but lax and yielding. Being fatiffied in thefe particulars. I could with great certainty foretell, the difficulty that would attend the delivery; which I at laft furmounted in the following manner.-Finding the patient had not been much fatigued; either by the pains or midwife, I placed her upon her fide, with proper affiftants to fupport and keep her fteady in hed: I firt begnn to lubricate and dilate the parts gently; hy which mcans, in about half an hour, I made room for the admilfion of my hand, which I introduced in a flattened form to the him of the pelvis, which I felt narrower than ufual, occafioned be the laft vertebra of the loins and upper part of the facrum being too near the orfa pubis. If found alfo the top of the fhoulder of the child entering the brim of the pelvis, the breaft toward the facrum, the bead over the pubes, and
the feet at the fundus uteri. I endeavoured to raife the prefenting parts, and bring down the legs; but the drynefs and flrong contraction of the womb, which, together with the pains, now acted forcibly againt me, foon convinced me that it was impoffible even to move them an inch. This method not fucceeding, I pufhed up my hand, by which I firetchod the fides of the uterus, and by that means with great difficulty reached the feet, which I endeavoured to bring down; but my hand and fingers were now fo cramped that I could not move them. I retted a while; in which interval the patient was feized with a deliquiun, which took off the pains and contraction, fo as to give more liberty to take hold of one leg, which 1 brought down as far as the bending of the knee would allow me; but could not bring down the other. Having brought out my hand, I placed a noofe upon my fingers, and with great difficulty I put it over the ankle ; then taking hold of the garter with my external hand, I pulled down with this, and hoved up with that in the womb; and by thefe means turncd the head and moulder to the fundus uteri; the leg was brought through the os externum, and the thigh into the vagina. Having fucceeded fo far, I with drew my hand from the womb, and affifed with both externally, pulling from fide to fide, and giving the proper turns (according to your directions) till the body was extracted as far as the breaft. Finding the body was obstructed in coming farther, by the arm lying acrofs, I brought down that, and then the other; and after the fhoulders were come through, I with two fingers' in the mouth pulled the chin to one fide, and brought it into the pelvis; then turning the patient to her back for more liberty, moved the forchead to the concavity of the facrum, and delivered the fame with a half-round turn upward. I tried all the common methods to recover the child; but to no purpofe. 'The patient enjoyed a good night by the help of an opiate, and is now quite recovered.

## COLLECTION XXXV.

Preternatural cafes, wherein the women were delivered by the affilance of the crotchet. [Tide Part i. Bcok iii. Chap. iv. Sect. v. No. i. alfo Tab. xxxv. and xxxvi.

## CASE I.-Vide Collect. xxxii. Cafci.

AMIDWIFE who was attending a woman in the country, found as the imagined, after the membranes were broken, that inftcad of the head one of the atms was pufhed down into the vagina, and acquainting the friends with this circumflance, thcy immediately fent for me. I found, when I exemined, that inftead of an arm there were two logs lying double in the vagina, and the knecs prefenting; at firt indeed I found but onc, which was lower than the other, and I imagined it was an arm, as the child was but fmall; but going round the vagina with my fingcr, I felt the other ; I diffinguifhed the knees by thcis having a more obtufe feel than the cloows; and bringing one of them through the os externum, was much better plafed to find it was a foot. Having placed the woman in a fupine pofition, I brought down the other leg; and having wrappod a cloth round the feet, I pulled the child gently along. As it was one of the firlt cafcs of this kind which I had fecn, I had not the precaution
to introduce my hand to feel, before I brought down the body, whether the head vas low down or up toward the fundus; for alter I had hrought the breech down to the os extcrnum, and curned the back part of it from the right fide of the pelv is to the pules, I could not bring the body lower down than to the finall of the back. Finding, after rciterated trials, that it would not move farther, I pufhed up the fingers of my right-hand along the belly of the child, and found the head folded down on the breatt at the fidc, and both fqueezed together in the pelvis. I tried to puth up the body and nyy hand farther to raife the head; but the body filling up the pclvis, and the head and breaft being fqueezed together by the former furce in pulling down, I could not, after feveral trials, alter the polttion. I was thicn obliged to pull down the body with greater force, till I found, after repeated trials, that the vertebre of the loins were fo over-itrained it was impoffible to fave the child. I then introduced the crotchct up betwixt the head and the breaft, and fixed it on the middle of the fternum, as I afterwards obferved, pulling the intrument with my right-hand, and the body of the child with. the left, I endeavoured to extran. Finding the parts tear down, and that the fhoulders did not advance, I pufhed the crotchet farther up, and got a firm hold above one of the clavicles, which brought do 4 n the fhoulders, and the head followed with little difficulty, the child being frall. This was a caution to me in the fequel, to examine the pofition of the head before I brought the breech into the paffage, that I might raife it, fo as to prevent any fuch obftruction.

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BEING called to a midwife in the morning, I was told that the mentbranes had broken about eleven at night, that the breech prefented; and though the pains had been ifrong, yet it had not advanced in the leaft for two or three hours, notwithltanding the efforts of the midwife, who had tried feveral times with all her force to bring it along. As the woman and the pains were now weaker, I tried, while fhe lay on her fide, to help along the brecech, with the affiltance of my fingers introduced to the outfide of each groin. This method not fucceeding, I puthed up the breech with my right-hand to bring down the legs, which lay extended up the fundus uteri toward the left fide; but the contraction of the uterus was fo great, that although my hand was up at the legs, I could not p: ffibly bring them down, the preffure of the breech, which I could not raife higher than the brim of the pelvis, joined with the narrownefs of the fame, fopreffed and pained the mufcles at the fore part of my arm, that I was obliged to witheraw it two or three times. Thefe attempts proving abortivc, I turned her to her knees and elbows, and introduced my- left-hand as the moft proper when in that pofition, and the legs to the left fidc. The breech receded farther, and iny arm was not fo much confined; but the contraction of the uterus was fo great at the fundus, that I could not polibly hring down the legs, although I retted feveral times, to keep up the firength of my hand and arm; at laft they were fo fatigued and cramped, that I was obliged to defin. Being afraid of tearing the uterus from the vagina, I altercd her from this pofrtion to her back, kee; ing her floulders high, and tried again in time of a pain, to help the breech along, as at firlt, but to no purpofe. I then had her brecch raifed with pillows, and her head and moulders laid lower; then I pufhed up my right-hand that was a little recovered from the former fatigue, but failed in this alfo, after feycral it.ong efforts.

I was now fo wearied, that I was obliged to reft, and confider what was next to bedonet The child, I found by thefe trials, was large, and the pelvis diftorted at the upper part of the facrum ; and indeed tlie projestion of thefe bones had bruifed and hurt the back part of iny hand at the laft trial. By thefe feveral endedvours, the placenta, I fuppofe, being p rtly toofened from the uterus, brought on a difcharge of blood, which made me afraid of tracing up again into the utefus. I attempted to bring the child double, with my fingers on the outfide of the hips or groins in time of the weak pains; hut inding this was to no purpofe, I introduced the curve of one of the handles of the forceps on the outfide fthey were not then altered from crooks to wooden handles as niow) betwixt one of the thighs and the abdomen of the child. When I found the point fufficiently through betwixt the thighs, I introduced two finger's of my left-hand to the groin of the oppofite hip; then pulled with that hend, and the blade of the forceps with the other; but fill finding this force was not fufficient: I introduced the handle of the other forceps at the other fide, and pulled by both with greater and greater force, which mored the breech to the lowet part of the pelvis, and the hams bclow the pubes; but I found in time of pulling, that one of the handles flipped from the joint on the thigh; which it fractured. I then brought down the legs, and after turning the fore parts of the foetus to the back part of the uterus, 1 brought dowh the body, and tried to deliver the head as defcribed in the cafes of collect. xexii. where the legs or breech prefent; but all thefe different methods failing; I tried firft to deliver the head with the fhort forceps; but they nipping feveral times alfo, I was obliged to take the affiftance of the crotchet in the following manner.

As the body and arms were delivered, and the neck ftretched to a confiderable length, 1 directed an affiftant to hold up the boidy of the child toward the pubes and abdomen of the patient; by which means I had more room to introduce the fingers of my left-hand up betwixt the right fide of the pelvis and child's head; even this I was obliged to raife to come at the os uteri. I then, with my right-hand, introduced the crotchet along the infide of my left (the point toward my hand) to the head; then turning the point to the os frontis of the child, which lay to that fide, I pufhed up the inftrument betwixt my fingers and the left temple (which lay toward the right groin) to the upper part of the frontal bones, where I tried to fix the point ; but this being a ftrait crotchet (for I had not then contrived the curved crotchet, which is principally ufeful in this cafe) the point did not take fafficient hold, or go fufficiently up to fix in the fkull, but flipped two or three times, and only tore down the fcalp. I then withdrew the crotchet in a cautious manner. After having refted a little, I again introduced my left-hand in the fame manner, but more backward, and thë crutchet along the right ternple, above the fore part of the ear, where at lait with fome difficulty I fixed the foiat., I nov brought down my left-hand, took hold of the crotcher with it, laid the holy of the child on that arm, and placing the fore and middle fingers of my right-hand over the fhoulders, and along each fide of the neck, 1 began to pull down the head; and gradually increafed the force. Finding the erotchet hard a fufficient hold, and did not fip as before, and that the head did not yet begin to move, I food up and pulled the body and crotchet upward to the pules with great force; which brought down the forehead to the lower part of the pelvis, at the right fide of the facrum and os coccysis; then turning it more backward, I delivered the head, by bringing it with a turn upward from below the pubes, where it
turned as upon an axis, and prevented the laceration of the perinæum and pars below, which at that time were firetched in form of a lirge tumour. I examined the child's head, and found the fkull was tore open about two inches at the above-mentioned place, and fone of the cerebrum had been evacuated in time of pulling ; a circumbtance which diminifhed a little the fize of the head. When I was firte called, I defired the midnite to allow, my pupils to be prefent; a propofal to which the and the woman affented, but relfricted the number to four, in condition that I fhouid deliver her swithout any other confideration for my trouble. This cafe fatigued me fo much, that I was fcarce able to move my arms to my head next day; and although the weather was not warm, I fiveated exceffively.

## $C A S E H$.

THE woman was young and Arong. This was her firt child; the membranes broke the day hefore; the had ftrong pains all night. When I arrived in the morning, 1 found the fhoulder forced down to the lower part of the pelvis. Having placed her in:: fupine pofition, with her breech high and her head and fhoulders low, I was obliged, after dilating the os externum flowly, to ufe greater force before : could raife the fhoulder fo as to introduce my hand into the uterus. I found that the left fhoulder prefented, the head was turned back to the right, and the fore paris to the back part of the uterus. The polition being known, I tried to puth up my hand to come at the feet, which were folded up to the fundus uteri, but turned in operating to the right fide. Finding that 1 could not poffibly feach them with my right hand, which was now beginning to be weary and cramped, I withdrew it, and attempted to introduce my left ; but the head was fo firmly cngaged at the right fidc, that I could not poffibly gain admittance. I again tried with my right, and repeated one effort after another, changing hands, and altering the pofition of the patient, till I was at laft excelfively fatigued, and obliged to defift. I refted abont half an hour, confidering what I fhould do next, and waiting until I fhould recover the ufe of my arms.

By thefe efforts, and the exerion of great force, a confiderable flooding was brought on; and this alarmed me not a little, efpecially as it was one of my firt cafes, and I had not yet attained that calin, fteady, and deliberate method of proceeding, which is to be acquired only by practice and experience. I had over-farigued myfelf, from a falfe ambition that infpires the gencrality of young practitioners, to perform their operations in the molt expeditious manner. Finding I could not reach the legs, I infinuated my right-hand up to the left lide of the child, and aiong that introduced a crotchet with my left above the ribs: there this inftrument being firmly fixed, 1 withdrex my right; then taking a firm hold of the crotchet with that hand, 1 fulled down the fide while I pufhed up the fhoulder with my left. By thefe means, after repeated trials, and ufing a good deal of force, the head and fhoulders were fo raifed, that I was able to bring down the body double, and the head followed. I was glad to find, that although the child came in this manner, and all on a fudden, the wonan was not at all lacerated or hurt. When I examined the child, I found the crotchet had fixed firt on the left fide of the belly, which it had tore open, as well as the falfe ribs; fo that molt of the contents were evacuated, and the body was allowed to pafs along double. One miftake I made at firt fatigued me much before I was aware: my hand had run up on the outfide of the membranes.

## $C A S E \quad I V$.

TH E midwife told me, that when the was called the membranes wer ${ }_{t}{ }^{\mathrm{C}}$ broken, and the hand lay in the vagina. A gentleman in tha netghbourhood had been ealled, and attempted delivery; but heuring I was fent for, he took horfe and rode off, being the famethat was concerned in the cafe defcribed fol, xxxiv. No i. cafe vii, if found the arm, moulder, neck, and fart of the ribs, pulled without the os externum. When 1 enquired of the midwife, if thele parts were forced down in that manner by the pains? She faid that before the other practitioner eame, the pains had pufhed the child fo low that the arm came out; but that the had folded it up again into the vagina, and kept it there till he arrived. She owned, that after he had failed in attempting to turn the enild, fhe affifed him in pulling at the arm with great force, but eould no: bring the body farther; and when he propofed taking off the arm, the woman defired I might firft be called.

I then with the midwife, infpeqed the parts, beeaufe I eould find no fundament, and thowed her that the vagiua and rectum were tore into onc. 'The arm, though not much fwelled, was livid, as well as the other parts of the feetus that appearel externally; for it had liin in that manner three or four, hours at leaft from the time I was fent for. I never expofe the parts of my 「atients except on fueh extraordinary oceafions, when it is neceflary to obferve whether any harin has been done.

After I hadendeavoured, without fuecefs, to pulh up thefe parts into the uterus, firlt by placing the woman in the fupine pofition, and afterwards on her knces and elbows, I was obliged to introfuce the crotchet, and deliver the child in the fame manner as directed in the former cafe. The parts were much inflamed ; but by the application of bread and milk pultices, the fwelling fubfided, the lacerated parts digefted, and fhe with difficulty recovered. Abnut two months after delivery, being in that part of the country, I called at her houfe; and contrary to what I had obferved in al other cafes of fuch large lacerations, in which the parts are eommonly fa weak ats not to be able to retain the fxces, the parts in her were fo contracted, and the paffage was become fo narrow, that the voided them with great difficulty.- , idide collect. xl.

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C A S E \quad V \text {. }
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THE midwife called on me, and begged I would preferibe fome medicine to promote the delivery of a woman whom the had attended two days; the faid the membranes had broken foon atter the went thither, and one of the arens coming down, was pufhed without the parts; but fhe had kept it warm. I told her the woman fhould have then been delivered, and no medicine could do any fervice. In about two hours I was fent for, and found the fore arm without the os externum, mach fivelled. The woman was little, not young, and this the firft child. I tried feveral times to pufh up the arm and fhoulder of the foetus, but was prevented by the largenefs of the arm and fmallnefs of the pelvis. 1 attempted to bend the arm (whieh was the right) fo as to fold it up into the vagina, that I might puif it up before my hand; but the fwelling was fo great at the clbow, that I could not bend it. I then pulted and twitted round the arm, and endearoured to feparate it from the fhoulder, but could not with all my foree. I pufhed up the fingers of my lefthand to the arm-pit, and tried to fnip through he fkin and ligament; but it lay fo high, and was thrown fo mueh for-
wards by the diftorted parts at the brim of the pelvis, that I could not get up my fingers or feiffars fufficiently to that part. I wrapped the fine arim in a cloth, and pulled and twifalit with great forice, fo that at laft it fepara:ed at the elbow. I was forry for this incident, apprehending there was lefs hope of palling off the arm when the firm hold of the fore arm wats loit ; hoveder, contrary to expectation, I found the fame advantage as if it had been pulled from the fhoulder; for the arm being fhort, eafily foided up in the vaginaz to the fide of the foetus. I now gave both the womn and myfulf tome relpite, that we might recover from fatigues Having refumed my labour, the arin and fhoullder were pufhed up into the uterus. Then I felt at leifure the pofition of the child. The head folded back betwixt the thoulders above the pubes; the left arm and leg lying over the breaft, and to the fide and back part of the uterus: I now repeated :ny eifurts, and by pufhing up higher, got a firm hold of that foot be twixt two of my fingers; puling down this and pulhing up the breaft; I brought the leg down without the os externum. Having wrapped it in a cloth, and taken a firm hold with my right-hand, I puifhed up my left, to try to bring in the right hip, which lay over the pubes; but found it impracticable to reach fo high, on account of the narrownefs of the pelvis. Endeavouring, to pull the lelt leg and thigh, fo as to bring the hips lower, after reiterated eftorts, and increafing the force cvery time, inftead of bringing the body lower, I pulled the thigh from the hip. I was obliged to relt again, to recover from this fecoad fatigue. I again introduced my right-hand into the uterus, and with great dificulty brought down the right leg; but the peivis heing too narrow ro allow paffage for the Bodys which was large, I had. recourfe to the crotchet, wish which I tore open the belly. I was obliged to ufe the fame method in tearing open the hreatt, to bring down the fhoulders and the arms; and afterwards to reft a confiderable time to recover niy frength, which was almof exhaufted, before I attempted to deliver the head, which I was certain would require ftill as greater force: Finding the face and forehead were to the left fide, and a little forward toward the left groin, after getting an affifant to hold up the body of the child, I irfintiated my right-hand at the left fide of the facrum, and introduced a crotchet in the fame-cautious manner as defribed in the fecond cafe of this collection, along at the left fide of the bones that were diltorted, and formed a large hollow at that part, which aHowed room for the initrument to pafs eafily. Having now altered my crotchet from the fraight to the curved form, the point went higher up, and fixed near the vertex. Bringing down my right-hand, I pulled gently at firft, till I found it was firmly fixed; 1 then began to extract with greater force, while at the fame time I pulled the body with my other hand: By reiterating thefe efforts, I got the head at laft delivered, but not before I changed hands; and was obliged to pull the crotchet with my left; which brought the forehead from the left groin, backwatd to the fide of the fatcrum. The crotchet had tore all the left bregna down to the temple; a laceration which allo eed a large part of the cercbruan to cvacuate; and the bones of the cranium to collapfe. The great force ufed in turning the foetus had brought on a flooding, which diminifhed on the delivery of the child and placenta; fart of the lint, however, adhered fofirmly to the right fide of the fundus uteri, that I was obliged to feparate it with the fingers of my left hand. As the woman complaincd of great pain, and her pulfe was a little funk from the large difcharge, I ordered an anodyne mixture, with 20 drops of laud. liq. and half an ounce of fyr. e meconio, which had the
defired effect, by procuring reft; and a plentiful perfpiration; and althought the weaknefs and pains continued for many days, yer the recovered.

Ahout two years after I was again fent for ; but being engaged, another gentlerran was called, who told me that he was obliged to open the head, and was vafly fatigued in extracting both it and the body; this violence threw the woman into a violent fcver that deftroyed her. Probably the lofing fo much blood when I delivered her, might prevent the inflammation and fever. This cafe fo fatigued me, that I was obliged to fift, and go to bed after I was carried home in a chair. My hands were fo fwelled that I could only ufe my fingers like a gouty perfon for a day or two.

## $C A S E V$

THERE had been two midwives with this woman for two days; one of thofe was her mothet. Both atms had been down moft of that time, and thefe they had often pulled to bring the child as it prefented. I found both arms pretty much fwelled; and one was almoft pulled from the moulder; for it only hing by part of the fkin, which I fnipped off with the fciflars. I infpected the part; and found the remaining arm and parts of the woman livid, but not tore. The paticnt was then flooding, and had loft a great deal of hlood; from which, joined with the long fatigue of labour, her ftrength was fo exhaufted, that fhe appeared in a dying condition. I fuggefted my apprehenfion to the huiband and friends; who begged mc, if poffible, to deliver her before' fhe expired. Contrary to my expectation, although the breaft was pulled low down, I eafily pufhed it and the arm up into the uterus, and brought the child fontling. I had no hopes of her recovery, although fhe feemed to revive a little, from the joy of being delivered; bccaufe 1 was pretty certain that a mortification was begun, from the livid apparance of the external parts, and her complaining of no pain, when I introduced my hand into the vagina and uterus. The placenta was all detached, and lying loofe in the uterus. This was not her fint child. I was called in the evening, and the lived till nexs morning.

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C-A S E \text { VII. }
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## The child delivered picce-meal.

ONE of the arms had defcended, and been fo pulled by the midwifes that the fhoulder was down to the os externum. I tried to raife the fhoulder by paffing up along the arm, which was exceffively fwelled and livid, it having been down in that pofition above 24 hours; but I could not introduce my hand. Confidering that the child was probably dead from its being fo long in that ittuation, and its not being felt to move by the mother for many hours, I thought it was moft expedient to feparate the arm from the thoulder. This laft being low down, 1 guided the points of the feiffars to it, and eafily feparated the arm; partly by cutting the fkin and ligaments, and partly by pulling and twifting. In pufhing up the fhoulder into the aterus, I found that the pelvis was fmall and the child largc. I brought down only one of the lcgs ; which was pulled off, as in calfe v. then with great labour I brought down the other, which gave way alfo by the force of pulling. I was afterwards obliged to tear down the body with the crotchet, and cren to fix the fame inftrument on the head. Being the flraight kind; it flipped feyeral times, and hurt the infide of my
keft-hand in two places, while I guided the point from hurting the vagina of the putient. At latt, gaining a firmer hold above the ear, I fixed the fingers of my left-hand over the fhoulders, and pulled with great force, both at the body and crotchet. Finding it did not move, I wrapped a cloth round the ihoulders, and pulled at them with fo great force, as almoft to feparate the head. By thefe means the he.id was brought a little lower, yet not daring to exert sgain fuch violence at the body, I pulled by the crotchet, which brought the head down to the os externum; and in raifing the body and pulling it upward, it at laft feparated. The head, howevcr, being brought low, I took hold of the under javr; and pulling at that, while I e..crted more force at the crotchet, the head was alfo delivered. The woman behaved with great courage, although fhe had bcen much fatigued, and weakened by a flooding brought on by the great force that I was obliged to exert in turning the foctus. This woman alfo recovered, çontrary to every body's expectation.

## $C A S E$. VIII.

The avoman died before the as uteri conldbe fufficiently dilated.

THE midwife told me, that when the was called, the membranes were broken; and although the mouth of the womb was very little open, fhe found that the child did not prefent fair. A gentleman was fent for, but he boing otherwife engaged, could not attend. Mr. Smith was then fent for at fix, and finding that the pains. which were frequent and ftrong, could not pufl duwn the prefenting parts to open the os uteri, he tried to Itretch it ; but not being able to dilate more than to introduce two fingers, and a flooding coming on, he fent for Mr, Mackenzie, who then attended me as fenior pupil, He likewife tried to dilate, and finding, although the os uteri yielded confiderably, he could not poffibly introduce his hand, he defird 1 would coine about feven. He told me that the funis was fallen down into the yagina, and that he had not felt any pulfation'in it ; that he had dilated the us uteri confiderably, but that his hands being cramped and fatigued, he was obliged to defift. I felt the woman's pulfe, which was ftill protty good, and not much funk. Confidering that the pains were now weak, and could do little fervice in pufhing down the child to ftretch the os uteri; being alfo afraid that the woman would grow wcaker and wcaker, and having never before failed in Atetching the os uteri in women that had children before, which was her cafe, I refolved to attempt it without delay. I examined in the fide pofition; but as that and the fupine had been tried before, I had her placed on her knees and elbows, and found that the mouth of the womb was fo largely opened, as to receive all $m y$ fingers up to the middle of tire third joint; but I could not ftretch it fo as to introduce my hand. I then refted, and felt more exactly the pofition of the child. The breaft and neck profented, and the chin was to the right ilium. I then confidered, that if I could bring in the face, and keep up the woman's ftrength, the pains might return, and force them down gradually, dilating the os internum at the fame time. For this purpofe, I had her changed to the fupine pofition, and introducing the fingers of iny left hand, with great diniculty got two of them above the chin into the mouth, and tried to pull it from the fidc into the middle of the pelvis; but the neck and breaft were fo engaged in the middle, and the head preffed back on the froulders, that 1 could not poffibly altcr the pofition? Being now certain
that the child was dead, I introduced a crotchet, covered with the fheath, along the infide of my left-hand, and fixed it, when untheathed, in the under jaw. Finding, however, that it woud tear dohn $n$ the jaw, and not bring in the face, I withdiew the inftrun:ent. The funis all this time was a great interruption, by falling down and eutangling mv fingers, I again gave the woman fome refpite, efpecially as the was now growing a little taint, and the flooding, which had abated, was returned,

After the was recruited, I tried again to dilate the os uteri, having found in other cafes that it dilated eafily iwhen the patient were faint and weak, but found the faine difficulty as before, 1 once more çndeavoured to introduce the crotchet at the other fide, to come at the thoulder, in order ta try if the pulling down of the parts would ftretch the os uteri better than puifhing up. I was apprehenfive of ufing any gre ter force by pufhing up; left I fhould tear the uterus from the vagina; but finding that 1 could not fix the crotchet to advantáge, l'again witl drew it. All this time the os uteri felt as it it was iwo inches thick. The woman being niuch exhautted, I had her laid in an eafier proftion, and let her lay a contiderable time, both to recruit her fpiris, and fee if the pains would reiurn. In the mean itne I fent for Mr. Burnet, who was firft called; who being now difengaged, came immediately. He alfo endeavoured to introduce liis hand; but tandin'g it impoffible, we all agreed to defift, and to wait, as the flooding was ab teed ; for although 'the liad loft a good deal of hlood, yet 'it had been very gradually difcharged.

Our intention was to fupporther with broths, and nourihing things, and as. fhe inclined to fleep, to indulge lier with fome repofe. Mean while we went to breakfant at a coffec-houre, where we propofed to wait the ifue of this uncommon cafe. I refolved, if happily the thould recruit after fome reft, and recover from the low faintifi thate in which we left her, to try digain in a gentle manner țo fretch ihe os uteri; and if that did not fucceed, to dilate it with the fciffars, as in the 10 th and $i 6$ th cafes of this collection. In about half an hour, one of the pupils being fent to fee how the fatient refled, was met ly the huf nd coming in a great hirry, to acquaint us that his wife had fallen into convulfions. Before we reached the houfe, the had expired; a circumftance which furprized us not a little, I indeed wa: in hope when we left her, that the would have enjoyed forme fleep, which might have recruited her ftrengtli. and then the os uteri would probably tave yieldied, as 1 fiac found in the like cafes before. I had evea in a few cafes, known the es uteri tear, nd the patiegt recover.

Kather dian let the woman expire without any chance of being delivered, Ihid determined to ditate the os interfim, 'This experiment, however, I think thould never be attenpted, but in the latt extremity. I refleched atier thi fudecn change, as the flooding wis not violent, and the woman at fift not fo very weak, whether it would not have been hetter practice to have waited longer for the efforts of nature to open the parts.

This cafe ougit to be a caution to all practitioners, to wat the effo, ts of natuíe, and not :o ufe too ercat violence in flretching the os uteri, efpecially when the patient is not in abfolute danger. On the other hand, if thefe effrers-bad not been made till the whman was weak, 1 fould have thought we were too long in affifting; efuecially as inever met yith a cafe of this kind kefore, where I did not celiver the patient. The numbranes Had troken the evening before, and the midwife, by an uncommon fepi of the parts that prefentei, fufpected that the factus prefented wrong. Mir. Burner, who had the care of the poor of the parifh, when called, was'not
at home. She was in frong Jabour moft of the night, but had not force to pufh down the child in that double pofition to open the os internum. When the firft pupil arrived at fix, the pains becane weaker, and a finall flooding hail begun. Ail thefe circumfances confidered, feemed to indicate tlie. pratice we followed preferable to delay, efpecially as we did not expeet that the ipatient would have been carried off in fo fudden a manner.

## $C: A S E \quad I X$.

TH is cafe happened to one of the poor women, whom all my pupils were allowed to attend. One of them delivered her of one child; and my midwife finding that there was a fecond prefenting wrong, immediately feit for me. The membranes of the fecond had broken inmediately after the firt was delivered. Finding the face prelented, and having put the patient in a fupine polture, I allowed all prefent to examine the pofition. Then, as the waters were not all gone, I very eaffly turned the head up to the fundus, and brought down the legs. Lobferved, that the child had beien dead many days, from the circumitances of the legs being livid, and moft of the fcarf: Ifin ftripped off. A cloth being wrapped round the legs, I tried to pull down the hips; but could not bring them farther than the brim of the pelvis. I introduced my right-hand betwixt the facrum and thighs, and found that obifruction proceeded from the abdomen being excellively fwelled, and turned to the back part of the uterus. I again pulled the legs with greater force; hut began to be afraid they would feparate from the body. I introdnced the fingers of my left-hand to the fwelled abdomen, and along that the fciffars with my right, and pufhed them into the abdomen of the foetus, juft above its pubes. Withdrawing the ficifars, I introduced two fingers into the opening, and pulling there with my fingers, while I grafped the legs with my other hand, tried to bring down the body, but being cbliged to increafe the force, all on a fudden, and urexpectedly, the hips feparated from the body at the loins.

Having now no hold to pull by, I introduced my left-hand into the utcrus, and along that the crotchet with my right ; fixing this inftrument oar the ribs, I began to pull ; but the hold gave way. I made feveral attempts in the fame manmer, fixing the crotchet higher and ligher, and in different places.; but as often the parts tore down. though the body did not move. I endeavoured to keep it firm with my left hand, while I fixed the crotchet with my right: yet the body was fo fippy, that it could not be held firm. My being obliged to bring out my left-hand, as often as the hold gave way, with the crotchet, to guard its hurting the patient or my hand, fatigued met fo much, that.I was obliged to reft two or three times. At laft, tracing up with my hand farther than before, I again introduced the crotchet, and got a firm hold above the fhoulder; then bringing my hand lower down, I tooks hold of the vertebrex of the back. By thefe holds I brought down the boty, and the head followed eafily, as the child was not large. I have had fome cafes of the fame kind fince, in which the delivery was retarded by the tumefaetion of the abdomen ; but I pulled at the legs with more caun. tion, for fear of the fame accident, and brought down the body with the Elunt-hook or crotchet.

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C A S A B .
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THE midwife informed me, that the was called about two in the morning, and found the womain in labour, with a fruall degree of flooding; but that it grew more violent as the pains increafed. She fignified to the friends that the patient $w$ is in great dancer; and about eleven in the forcnoon I was called; the membranes were broken, and the difcharge diminifhed. In time of a pain I examined, and found the face of the child prefented. The ns uteri was open about the circumference of half-a-crown; it felt rigid, but very thin. This was her firft child, and laboar had come on two months before her full time. Her pulfe was low and weak; fhe had fainted feveral times; but feemed to recruit a little, when told that more affiftance was called, and hegged earneftly to be relieved. I ordered fier to take cvery now and then a little red wine burnt; and waited to fee if the pains would return as the recovered ftrength. 1 alfo preferibed an anodyne and aftringent mixture of tinct. rofar. $\bar{z} \mathrm{iv}$. Aq, nucis mofehat. $\overline{3}$ ifse Laud. liq. gt. X. Syr. e mecon, $\mathrm{j}^{\text {fs. }}$ two spoonfuls to be taken every half hour. - I was again called about two hours after, and informed, that althoogh the lay guiet, yet the had enjoyed no fleep; and that the faintings trad returned. As fhe feemed to be in imminent danger, I tried, as the lay on her fide, to tlretch the os uteri, and my efforts feemed to bring on a weak pain; but finding this had no effect, I gradually dilated the os externum, till I could introduce my hand into the vagina, and then began to fircteh the os internum with the fingers of my left-hand contracted in a conical form; but althongh the os uteri was fo dilated as to receive my thumb and four fingers, and felt as thin as the edge of a piece of parchment doubled, I could not ftretch it wider, even although 1 proceeded in a flow manner and at intervals. Finding the flooding return, and being afraid the wonld be lof if not foon delivered. I told her friends this was the only chance the had of being faved. I went to work again, and ufed greater force than before; but to as littie purpofe; I could do nothing but cramp and weary the fingers of both hands. While I refted, I began to reflect that I had known fome of my patients recover in cafes where the uterus tore in ftretching, and that fone of them had even recovered without any unfavourable fymptom following. As this therefore felt fo thin and rigid, I found na way could betaken but to make an incifion on the os uteri. For this purprofe I infinuated two fingers of my left-hand into it, and with my right introduced a pair of fciffars betwixt the fingers. With thefe I endeavoured to fnip the fart; but finding I could not manage fo as to cut through the edge, I punhed one of the points within three or four lizes of the edge, and the other on the infide, and fnipped through that part which was at the left fide, but a little forward, to prevent the laceration that happened afterwards frem affecting the biadder, recium, and large veffels at the fide of the uterus. Withdraving the fcifiars, I introduced my left-hand, and found the fnipped part gradually give way, fo muchas to admit my hand, though flowly, and with fome difficulty, into the uterus, where I eifily turned and delivered the child by the feet. The child, however, was dead. Although therewas a pretty large difcharge, yet it gradually abated after the placenta was delivered. She continued in a weak faintly condition till the cvening, when fie fell into little numbers; but was attacked every now and then with cold and hot fits. I had given her feveral times a litite of the anodyne mixture; alfo fome burnt wine and fome chicken-broth to fupport her?
and recruit the exhaufted fluids. Next day, as the cold hivering returned once in thrce or four honrs, I orderel fome exmet of the cortex to be diffolved in red winc, and given betwixt the fhiverings. The difcharge was moderate; but naturc being fo miuch exhanted, the died the fourth day.-Fide cafe viii. and xvi. of this colleation; alfo cafe xaviit. of collect. xxxi. likewife xxxiii. Ne ii. cafe ix. and cafe viii. of eollect. xl.

## $C \quad-1$ S Et $X I$.

BEING called in the evening to a woman riear 40 ; in labour of her firfe child, the midwife informed me, that the had attended the patient two days; that the pains had been ftrong fince the morning. and after the waters came off; bur that the heat lay high, and did not advance. 1 underftood by othcraccounts, that the wonan had been put too foon on labour, and was much fatigued. I felt both the os internum and externum largcly open, by the midwife having, as the faid, worked hard to bring' down the child, whofe head lay above the brim of the pelvis. The woman being much fattgued with fruitlefs pains, that were much abated, I had her put to bed, to try if fhe could enjoy fome relt; and effired her not to forre down, but when the pains obliged her. As the was coltive, her pulfe full, and quicker than ufual, ant her fin hot and dry, fhe was inmediately bled, and procured plentifu! p:ffagc with a clyfter. She enjoyed feveral refrefhing flceps betwixt the pains till morning, when the pains grew ftronger, but itill had little effect in advancing the head. The pains again fall ing off, I was apprehenfive, that if I waited longer, the woman might foon be in danger, and not imagining that the child was fo large, I thought it was better to try and deliver it by the feet. It required a great force to turn the child, fo as to bring down the legs, and even after that, to deliver the body and arms, fo that I was obliged to relt feveral times. I afterward ufed all the caution imaginable to bring do:s n the head, fo as to fave the infant; but at latt was obliged to increafe the force to deliver the woman, and pay lefs regard to the child. By thefe laft violent efforts, both the under-jaw and neckbegan to feparate. I was obliged to defilt, as I found that one of the joints of the neck was entirely feparated, and that only about one-half of the Ikin of it remained untore. . I thought it would be calier to fix the crotcher on the heal now than when feparated from the body; for although the hold at the neck was flender, yet it kept the head Iteady. I directed an afiftant to hold up the body of the child, while I introduced my left-hand along betwixt the right fide of the ragina, as the woman lay fupine. Then I introduced the crotchet, and dclivered the head, though not without a good deal of force, and difficulty in fixing the crotchet, which was the Hraight kind. Even if I liad at this time known the ufe of the forceps, they would have been of no fervice in this cafe; becaufe the head was fo large, and fo liftle advanced in the pelvis. The fault was not in waiting longer; for I have had many cafes fince, where wating patiently, the heal has advanced, and been delivered with the pains, or with the forceps. The felvis was not narrow.

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C A S E \quad X H .
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THIS woman was remarkably tall, and to outward appcarance well formed for beariug children; but on enquiry after delivery, I found that the had been fickly and weak for the firt fous or five years of her infancy.
fancy. I was called to her, when the had been long in labour of her firft child, and was obliged to diminith the head hefore I could deliver. I was called fooner when the was in labour of her fecond; and although the head prefented, I tried to fare this child, by bringing it footling. The body paffed with difficulty, from the projection of the laft vertebre of the, loins with the os facrum. After I hal brought down the body, I endeavoured, before the arms came down, to move along the head, firft by preffing down the head as fhe lay in the fupine pofition; then I attempted to bring down the forehead by pulling upward; finding, however, that the forchead relled againit the diftorted part, I tried with nyy fingers to prefs it to the fitec; but the arms filling up the parts at the fides of the pelvis by the brim, I was obliged to bring down both arms, in order to obtain more room. After, ha: ing pufhed the forehead to the right fide, which feemed to be the wideft, I introduced my fingers into the mouth, and began as in the former cafe, to pull in a cautious manner, but finding it did not move downward, I exerted more and more force, till I found the neck giving way, and it was. impoffible to fave the child. I was then obliged to introduce the curved crotchet, which was the firit time that I had orcafion to ufe it in fuch cafes fince altered from the fraight; and found it particularly ufeful on this occafion; for inftead of fixing on the fide of the head, it went up to the fagittal future, which it tore open, and making a large aperture, it had a firm hoid on the bones of the forehead; by thefe means the cerebrum was fooner evacuated, the head collapfed, and was eafily delivered. I was called again in her third labour; and as the head prefented, proceeded in the delivery with all the precaution mentioned in lingering or laborious cafes, till the was almolt exhaufted; but after all, was at latt obliged to deliver as in herfirtt labour. The children were all large. In her fourth pregnancy, fhe was luckily taken in the feventh month in labour, in confequence of a loofenefs and fuper-purgation, occafioned by eating too much fruit. This child, though the head paffed with difficulty, was delivered alive; and fhe has not been pregnant funce.-Vide cafe penulto of collect. xxxiv. alfo the former of this.

## $C A S E$ XHI. and Supplement to C A S E I.

MR. H——, of G-Street, was called about two or three in the morning, and found a leg of the child prefenting; but when he tried to bring down the body of the child, he found that it was large, and' the pelyie natrow. He fent immediately for Mr. W. in Bifhopfgate-Street, who brought down the body, but could not deliver the head ; neither did. they choofe to ufe great force, for fear of feparating the body. Befides, Mr. H—— did not. choofe to begin the practice fo-foon, being a ftranger; and Mr. W. was jult como off a long journey;, very much tatigued. I: being called, arrived about eight o'clock, and took two gentlemen along, with me. Both Mr. H——and. Mr. W. had attended me about eight years before. I was glyd when I found there was no flooding, and that the woman was ftrong, and no way funk or wore out with the labour. It had her laid acrofs the bed, her breech a little over the fide, and two of the gentlemen fuppozted her legs; one of them alfo fupported her body till I introduced my right-hand into the vagina. I found the face lay backward a little to the left lide of the pelvis. I. felt the lower vertebra of the loins, and upper part of the os facrum, jut in fo much, that it was impofible to. deliver the head without diminihing its bulk. As we were certain, from
the umbilical cord; that the child was dead, it was in vain to fatigue the woman and ourfelves, by attempting to bring it away entire. I pulhed up the ends of my fingers, that were already in the vagina, paft the os internum, but with difficulty, it being Itrongly contracted round the lower part of the head; and by the largemefs of the head, and narrownefs of the pelvis, they. were very much fqueezed. I endeavoured to raife the head higher, to make more room, but could not, although 1 ufed a good deal of force. Then taking the handle of the crotchet in my left-hand, I introduced it with the point next the child's head; but at firft trial could not get it topafs my fingers: I withdrew them to make more room; but the os inter-num contracted again fo clofe to the head, that I could not get the end of the crotchet to pafs. I again tried to force up the head with all my ftrength, and with great difficulty raifed it a little higher; a circumfance which afforded more room, the crotchet pafled the os internum, but not without bruifing my fingers, and the point flipped a little to one fide ; this I again turned to the head. As I withdrew my fingers, the point fipped un eafier, and I felt it flide along to the crown of the head. I then brought down my right-hand, and taking hold of the handle of the crotchet, ufed the fame precautions as mentioned in cafe ii. and delivered in the fame manner, byfixing the point firmly, and turning the curved part of the crotchet over the forehead. By pulling, the head was opened in the fame manner, and delivered, but not without a great deal of force; the external parts of the woman were much fwelled, but fhe was not tore: Mr. H- called three. or four times after, and told me the furface of the labia was grown black. and livid; but I heard afterward, that by applying pultices and fomentations, the inflammation went off, and the woman recovered. Mr. H informed me, that he believed Mr. W. was not fo much fatigued, as afraid of leaving the head behind in the uterus; a cafe of that kind having happened fome time before, in which the patient was loft.

> C AS E XIII. or Collection XXX. CASE VI. By Mr. Jobn Paifcy, Surgeon, in Gla fgow.

AUTHORS having differcd very much as to the thicknefs or thinnefs of the uterus of a woman with child, fome, with Mauriceau and Dionis, afferting, that it turns always thinner as it extends; whilft others; I may fay almoit all anatomifts, affirm, that it turns thicker as the woman advances in her pregnancy, and draws nearer to the time of her labour'; or to fpeak more properly, that in the fevetal flages, the thicknefs of the fides of the womb keep; the fame proportion to its cavity as in a natural ftate, the finufes and veffels being proportionably enlarged as the uterus is ex-tended. I fay, this having occafioned fome difputes among anatomits, I thought proper to fend you the following hiftory of a woman who died in child-labour, where I had an opportunity of examining the thicknefs of it; and at the fame time of difcovering a fatal miftake in the midivife who attended her; who, by delaying to call for affiftance in due time, was the unhappy occafion of the death hoth of mother and child. -I was called to a woman in !abour, about a middle age, of a low ftature, and pretry fat; who had boren feveral children, and found her in an exceeding low condition, with cold fweats, and fevere faintings, her extremities cold, without any pulfe, and unable to utter one word, though fhe fhewed fome. figns of heing defirous to fpeak with me. The midwife that attended her had gnne off upon my being fent for, and left a young practitioner whom the
was training up in that bufinefs, who gave me the following account of the poor woman's cafe, viz. That the had been feveral days in labour; and that all along the midwife imagined affairs were in a very good way, and the child, as fhe thought, in a very right pofture, though after the waters broke, the child's head had never advanced by the ftrongeft pains. Hence the midwife either blamed the mother for not bearing down ftrong enough when the pains came upon her, or elfe pretended that the pains were too faint and languid; and as there was no flooding; fhe never apprehended any danger, and therefore cheered up the mother and friends with the hopes of a good iffue by a little patience; and as fhe had a good deal of other bufinefs upon her hands, the frequently left the poor woman for half a day together; and upon her return ftill found all things in the fame fituation the left them in. From the firft day the woman was taken with her pains fhe fcarce made one drop of water; wherefore on the fifth, the midwife fufpecting that to be the caufe of the birth being retarded; fent to an apothecary's fhop for a Atrong fimulating diuretic mixture, to increafe her pains and provoke urine, being affured all things were right, only the pains were too faint, as no doubt they were, when the woman had been fo long fatigued with her labour. This having no effect, a ftronger one was called for, which proved likewife unfucceffful ${ }^{2}$ and all things continued in the fame ftate, only that the woman's frength was continually decaying, till the fixth day at midnight, when I was fent for, and found her in the fituation above-mentioned. It is evident, that when matters were brought to this pafs, the poor woman had not fo much Arcngth left her as to bear the fatigue of being put into a pofture for being delivered, and that it was impoffible to afford her relief. I acquainted the friends with it, affuring them that it would be madnefs to attempt it in thefe circumftanccs, being perfuaded the could not live above a quarter of an hour; which accordingly happened, the dying in a few minutes. Next day I prevailed with the fricnds to have her opened; and after I had cut the teguments, and laid them back, I was furprifed to meet with a black membranous body, like coagulated blood (which it in reality was) covering all the fore part of the uterus, though diftended fo much with the child ; this I eafily feparated in one cake from the uterus; and when it was fpread upon the table, it was about a foot and a quarter long, and a foot wide, and a quarter of an inch thick. Whether this proceeded from the oufing out of blood from the fubftance of the uterus, by the ftrong preffure when the pairs were violent, or from the rupture of fome fmall veffels, either of the uterus, or fome other part of the abdomen, I do not determine ; for I could not obferve the leaft appearance of any ruptured veffels in either, after the moft accurate fearch I could make; nor was there one drop of blood in any other part of the cavity of the abdomen. I know not if this is a thing that is always obferved in fuch cafes, having had no opportunity, before that time or fince, to examine any fuch fubject ; though no doubt it is a thing may readily happen in very laborious births; and then it is no wonder it violent after-pains, fever, inflammations, and their confequences, follow ; for in fuch a bad habit of body as women in thefe circumftances are generally allowed to be in, it is fcarce fuppofed that coagulated blood can eafily be diffolved and again abforbed by the veffels, in fo large a cavity as that of the ahdomen; whercfore by its fagnation and purrifaction it may bring on a train of bad fymptoms, the caufe of which lying entirely out of the phyfician's power to know, it need be no furprize though he fail in his attempt to remove them; and I do not know but this may be one of the
chief eaufes of thofe many diforders and frequent deaths that happen after very violent and laborious births; though there are many other caufes well cnotigh known, which are capable of producing fuch like effets, This phienumenon being what had never oecurred to me, either in reading or practice, I thought it would not be unufeful to acquaint the world therewith, to prompt thofe of greater abilities, or who have more leifure, and more opportunities of meeting with proper objects, to enquire if fuch a cafe often happens; how far the caufes hinted at are juft, or what other caufes may probably be affigned forit; what fign it may be difcovered by; what mechod of cure might be proper in fuch a cafe; and the like. When I had removed this coarulated blond, I obferved a large fac, or b g , full of water, lying along the fides of the uterus, above the inteftines, and reaching as high as the kidney of the right fide. Upon feeling it all round with my hands, I found it was loofe at its fuperior part, and appeared to come out from the pubes, where only it had an attachment. This, upon examination, proved to be the urinary bladder, thus diftended to a vaft bignefs, and thruft to one fide by the preffure of the uterus on the fore part of the abdomen. I opened it, and meafured the urine; it contained no lefs than eight Englifh pints, or a Scotch quart. The uterus w'as pretty clofely contracted on the child; and in opening it from the fundus to the cervix, I found it at leaft half an inch thick in the thinneft part, though a good deal more at its fundus, where I obferved the finufes fo large, as eafily to admit the end of my little finger into them. The placenta adhered to the fore part of the fundus. The waters having been broken folong before, I could not expect to find the allantois.

The child had fallen down into the paffage much in the natural way, only with its head a little obliquely to one fide; fo that part of the frontaand parieta' bones of the right fide, refted upon the pubes and neek of the bladder ; and by the violence of the pains, thefe bones had been pufhed fo ftrongly againft the pules, as to make a confiderable indentation in them, and raifed an inflammation for an inch or two rotind the contufed part. I Gelieve I need fcarce add, that if affiftance had been called in time, the fwelling of the bladder might have been prevented, by drawing off the urine with the eatheter; and if the ehild's head could not be eafily ftirred, then the child might have been turned and brought away by the feet, as is ufual in fuch cafes.

Hence midwives ought to be advifed to call for affiftance in due time, efpecially in a cafe of this nature, where both the mother and child's life are in fo great danger, though there be no flooding, fince it is one of the moft difficult cafes that ean well happen in midwifery; and thereby they may fave two lives, and feeure their own reputation. Hence alfo, phyficians and furgeons may take warning, not to truft too much to the report of midwives, who too often pretend all things arc in a fair way, and that there wants only fome medicine to promere the pains, which they fuppofe are too faint and languid, becaufe the head does not fall any lower; while it may be owing to the above caufe, as well as others mentioned by piactical writers, when the giving of fueh medicincs may be of the wort confequence.

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C A S E X I V . \text { and Supplement to } C A S E V \text {. }
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THE membrancs had been broken, and the waters were all gone, before I was ealled. The midwife told me the breech prefented. Another gentleman had been called, but he being afraid it would turn out a difficult
labour, left lice ; upon which I was fent for. When I examined the woman, I at firft imagined a leg and a hip prefented; but on pulling the fuppofed leg, which was lying in the vagina, 1 found it an arm, and very much fuelled. It appeared very plain to mc, that the miswife thad pulled very ftrongly at the arm, bccaufe it was fwelled, and the ends of the bones at the fhoulder and clbow were ftretched to a confiderable diftance. She had, after her fruitlefs endeavours to extract the child, cloubled up the arm into the vagina. When 1 told her it was the arm, fhe faid fhe had felt the fingers lying, as fhe inagined, with the leg. Howevel, as it was my bufinefs to deliver the woman, I faid no morc. I 1 . id her fupinely acrofs the bed; two women fupported her legs and thighs; her nates ivere raifed, and brought a littlc lower. I tried firit to introduce my right-hand betwixt the arm and the os facrum, but could not pafs ir into the uterus from the bulk of the arm, and the projection of the upper part of the os facrum with the lower vertebra of the loins: it was the left arm that was down; the left fhoulder was puthed in at the brim; the fure paris of the chiid were, toward the belly, and left fide to the woman. Finding, after repeated trials, that I could not get up my hand, and that there was more r om at the fides of the pelvis, I turned her to her left fide. 1 renewed my ericuata vours, but the bafon being $n$ rrow, and the arm of the child fo mucn, fwelled, I was obliged to defift, and to proceed with cau ion and by de-grees, Icft I fhould lofe the ftrens th of my arms, by work ing too nuchand too long at a time. I next tried to pufh up the ar a into tic utesus; but the contraction of this lafi was fo great, that it was in vain to attempt that method.

As the woman had no flooding, and her pulfe was firong, I refted a few minutes; during which I confidered, as it was very probable that the child was dead, or would foon die, from the arm beng io much fwelled and over-ftrained at the joints; as the meconium, accordi.g to the nidwife, had for four or five hours been coming down alfo; and as the pelvis was extremely narrow, it was ten to one that I could not del ver the head without the help of the crotchet. All thefe circumftances made me think it more advifeable to feparate the arm at the fhouider from the hody. To do this with greater eafe, I pulled down the arm with a good deal of force, introduced my hand below it in10 the vagina, and my hinget up to the fhoulder; but my fingers were fo fqueezed beswixt that and the projection of the forcfaid bones, that I could not divide it with the feiff:rs; and in my attenupts to pufn up my hand, I found that the fore arm obltructed me moft. I then feparated this at the elbow. Afier having refted a minute or two, I again tried to pufh up the arm and fhoulder; the arm I folded up, and the floulter gave way a little; but by this titne my own right arm was a little weakened, and the hand being cramped, and a little bruifed on the back part, from, the projection of the bones, I again turned her on her back, afterward on her right fide, and tricd with my left hand, but that was, in a litule time, morc difabled than the other. Once more I turned ber to her left fide, and refted about five or fix minutes. I now found that a flooding was beeun, fo' that thicre was no tine to be loft. I introduced my right hand imo the vagiva, hut the bones backward fill hindered my han.!. After turning hor a listle more toward her bchiy, I got again the arm folded up to the moulicr, and both raufed fohigh, is to pafs my hand uf to the funclus uteri. 'T he mufcles of the thick part of my arm were fo much preffed, that if I had not got one of the feet very readily, I muft have withidraun it again. Gra!ping the heel and fore part of the foot be-
tween my fore and middle fingers, I brought it into the vagina. I then refted a little, and by degrees fixed a noufe upon it. I really thought, in the middle of this laf effort, I muft have given up this method, and have tried to inirociuce the crotchet, to fix it on the breatt or ribs, and by that meanstear cown the body of the child into the vagina. The feet being brought down eat ly by the noofe, I introduced my right-hand, and raifed the moulder and heau fo much, that by pulling the noofe with my other hand, on the outtide, I brought the breegh down to the brim of the pelvis. After another intermiffion of a few minutes, I took hold of the leg, being the right, with my left-hand, and introduced two fingers of my other to the ouifide of the left groin; hut, after fcveral triais, could not get that hip to advance. Feeling that the blunt point was paffed in between the thights, I wrapped one cloth round the croichet, and another round the right leg, and pulling both with great force, brought down the body and fhoulclers without the os externum. The wcather was remarkably cold for the feafon of the year; there w s very little fire, and yet I fweated fo much, that I was obliged to throw off my waiftcoat and wig, and put on my night-gown, with a thin napkin on my head. 1 then endeavour $\cdot d$ to deliver the head, by introducing the fore and middle fingers with my righthand into the child's mouth, which was to the back part and left fide of the pelvis, but could not move it. I now brought down both the arms of the child, and introduced my right-hand into the vagina, and the points of my fingers paffed the os internum, along the face of the child. In the mean time, I caufed one of the women to hold up the body of the child, to give me more room to work. I introduced a curved crotchet, which had a thick wooden handle, with my left-hand, the point to the child's face, and upalong to the crown of the head. It fixed upon the head ; but finding the point a little on one fide, I moved it into the middle, by turning the point, and keeping the handle back to the perinæum and the upper end, in an imaginary line, to the middle fpace betwixt the navel and the fcrobiculus cordis of the woman. When this was done, I brought down my righthand, and with it took hold of the crotchet : I laid the body of the child on my right arm; I placed two fingers of my lett-hand on each fide of the child's neck, and over the fhoulders, and began to pull with both hands, flowly at firft, till 1 found that the point of the crotchet had a firm hold in the head. I increafcd the force of pulling the crotshet, and found that it came down about two or three inches without moving the head. Apprehenfive that the point had not entered the fkull, but only tore down the hairy fcalp, I raifed it up to the former place, and renewed my effort. It came down as before, but held faft above the forchead; I then refted, and afterward began to pull both the crotchet and body of the child with greater force. I found fomc of the cerebrum coming out, and the head moving a little lower. I continued to reft and pull by turnṣ, until the head leffened, and was fqueezed by degrees into a fmaller bulk. After it had pafied through the narrow part of the brim, it was delivered with great eafe. The placenta being already lonfened from the utcrus, was imimediately forced into the vagina. I took hold of the umbilical cord with one band, and the edge of the placenta with the fingers of the other, by which meanṣ it was foon extracted. The uterus foon contracted into a fmall bulk. I examined with my fingers the perinxum, and found that it was not the leaft cracked or tore. The woman hore all thefe endeavnurs with great courage; her pulfe continued goud and ftrong; the difcharge of blood
was not great, and did rather feryice, for the parts were lubricated and relaxed by it.

When I examined the child, I found the curvature of the crotchet had allowed the point to go over the forehead, too near the turn of the hair at the croan, and it had tore open all the fagittal future through the fontanelle, and fixed on the thick part of the fkull at the forehead, which a fraight crotchet could not fo eafily have done. The opening was about three inches long, and about a third or fourth part of the brain was evacuated. I ordcred the woman to be kept quiet, and to drink frequently of warm caudle. I called two days after, and found her pulfe ftrong, quick, and hard, with pains in hcr back, belly, and head, and a difficulty in breathing; fhe had got but little reft, and had fweated none: fhe told me that neither fhe, nor any of her filters, could fiveat or bear fweating: the difcharges had gone on very well, but were abated more than ufual that day. I advifed that fhe fhould immediately lofe twelve ounces of blood from her arm, and drink plentifully of barley-water, or water-gruel. The nurfe had given her very little drink. She was foon relieved, and recovered much better than I expected. She was a little woman; and as I could judge by the difficulty of my hand paffing, it was not above three inches and a half or three-quarters, from the upper part of the os facrums to the pubes. "If I had not refted a great many times, and proceeded with caution and deliberation, 1 fhopuld have failed in turning the child ; and if I had pulled with too great violence at the body, I fhould have feparated it from the head, which it was very difficult to open and extract in fo narrow a pelvis.

## $C A S E X V$. and Supplement to CASEV.

## In a letter fraun Mr. Mudge, of Plynoouth.

HE was fent for to a woman who had been in labour all night, and the membranes were broken about eight hours. Her pulfe was tolerably Atrong, though very quick, and her countenance very florid; circumftances owing to her drinking plentifully of firituous liquors. On examining, he found moft part of the left arm hanging out of the paffage, together with the cord, which was cold, flabby, and withour the leaft pulfation. The head (as he imagined) was funk down confiderably, infomuch that he thought nature might be fuficient to pufh it forward. He therefore left her, and prefcribed fome medicines to amufe. He called about cleven, and found no alteration, except that the pulfe was fo much funk that he determined to deliver. Having introduced his hand, and moved it round what he thought the head, which felt loofe, and exactly filled up the pelvis, he fixed the forceps with as much advantage and eafe as he had done in former cafes ; but the inftrument flipping two or three times, he delifted, and tried to turn and bring the child by the feet. However, the paffage being filled up he was obliged to twif and pull off the arm from the fhoulder. He then, with great difficulty, pufhed his hand into the uterus, and found that it was the upper and back part of the fhoulder, as far as the fpine, which had been pufhed down, exactly moulded to the fhape of the pelvis. This he all along had taken for the head, which was now found lying above the right fide of the pubes, the feet being at the very fundus uteri: With great difficulty he brought down the right leg ; and by pulling at it, and puming up the fhoulder at the fame time, he foon extracted the child. The labour refted about twelve minutes, and
the child was quite rotten. The remainder of the cafc carried to collection xliii. $\mathrm{N}^{\circ} \mathrm{i}$. cafe 2.

## $C A S E$ XVI. and Supplement to $C A S E \quad X$.

THE woman was in labour of her firf child, eight montlis goné, and the child's arm prefented. She was attacked with a flooding; and had boen in labour feveral hours. The membranes were broken, the hæmorrhage was a little abated; and the arm pufhed down into the vagina. The os internum was open about one inch and a half, or the circumference of a half crown, and felt no thicker at the edge than a piece of thick parchment. Having caufed her to be laid in a fupine pofition, I by degrees introduced my hand into the vagina; and afterwards my fingets into the os internum. Thus I endeavoured gently to ftretch, by puhiing up my fingers in form of a cone; but to my furprife, found it fo rigid, that it would not dilate in the leaft. I then ufed greater force, and repeated it feveral times, by ufing one hand till it was fatigued and cramped, and then the other; but all to no purpofe. Having failed in all thefe attempts, and recollecting from former experience of a few cafes, that by fuch force the os internum had been tore, and the woman recovered even when the os internum was much thicker, I thought it advifable to introduce the fciflars, and fnip the edge of it. This operation being performed, it gave way fo as to allow my hand to pafs into the uterus. I then turned the child, and delivered it by the feet, which wcre much mortified, the child having becn dead at leaft a fortnight. The woman feemed in a way of recovery ; hut complained of pain and forenefs. About the fourth day fhe was taken with violent pains in the head and a quick pulfe; but bleeding in the arm relieved her: on the fifth day after venefection, fhe was feized on a fudden with a violent loofenefs, which weakened her much; but it was reftrained by anodyne and cordial medicines: the fever recurred, and the was again bled on the fixth: but the loofenefs returned on the feventh; which funk her fo that the immediately expired. This was the fecond time that I had fripped the os internum when I could not fretch it, fuppofing that as it was fo thin the dilatation could have no bad effect. AIthough $I$ did not fucceed in collect. xxxv. cafe x. I attributed the death of the patient in that cafe to her great weaknefs, from hier being exhaufted before delivery by the hæmorrhage ; but I hoped, as this woman was ftronger, the fame mocthod would have fucceeded ; efpecially as the child muft in this cafe be brought footling. I fay, I had found it tcar confiderably, and the woman recover; but I afterwards refiected, that as the patient had not flooded much, I ought to have waited longer to allow the pains to pufh down the fhoulders, and dilate tle parts no morc. No doubt the violent force ufed firft to dilate, and then the farther dilatation when I. introduced my hand, might bring on the inflammation, pain, and fever, which ended in a loofenefs. It is among the moft difficult things in mid wifcry to know in floodings, cfpecially if the child prefents wroryg, when there are labour-pains, how long to delay the delivery: bccaufe if we deliver foon, and the woman dies, we are ready to reheet that it would have been fafer to leave it to the labour to ftretch the parts: and when we delay too long, and the woman is too much wcakened with the flooding, we are apt to think it would have been fafer to have delivered fooner.

We find in cafes where the child prefents fair, that the flooding commonly diminifhes, or fops, on the breaking of the membrancs in labour.
and then the head is forced down, and the woman is for the moff part fafely delivered; but here the wrong pofition prevents the delivery; and although the violence of the flooding is abated on the waters coming off; yer as there is a raining, this being long continued finks the patient. This fatal cafe is inferted as another caution to young practitioners. Vide cafe viii. of this collection. Vide alfo collect. xxxi. cafe xxriii. and collect. xl cafe viii. likewife collect. xxxiii. $\mathrm{N}^{\vee}$ ii. cafe ix.

## CASE XVII. and Supplement to CASE $V_{:}$

## In a letter from Mr. Mudge, Plymoutb.

HE was called to a very little woman much deformed. She hadd been in labour two days; the waters had been difcharged feven hours; her pulfe was extremely low, and funk, occafioned by a pretty large flooding. He found the right arm in the vagina, together with the cord; the pulfation of which affured him of the child being alive. He, after great fatigue, brought down the legs and body. Then he tried to deliver the head, at firlt with great caution, to fave the child; but the pelvis being fo very narrow, that the head was as imnoveable as a rock, he increafed the force, and underwent a greater fatigue than lie could defrribe. He endeavoured to introduce the crotchet, and fix it on the upper part of the head; but his Atrength being fo much exhautted, and the pelvis fo narrow, he could not raife it high enough; but fived it on the under jaw; and finifhed the dedivery by means of his utmoft force. The labour lafted about twenty= five minutes. The mother was perfectly well in a week。

## $C A S E$ XVIII. and Supplement to C AS E IX.

THE woman had been in labour feveral hours before the membranes broke. Mrs. Moore, now Simpfon, whom I had taught, and kept on purpofe to attend all the labours with the pupils in the teaching way (in Berwick-Street) was firt called. She had affembled about ten of the gentlemen. Before the membranes broke, they could fearce feel any part of the child. Being called, I examined, and could feel fome part of the child refting above the os pubis; but could not dillinguifh it to be the head. When the membranes broke, it came a little lower; but as it felt unequal, and not like the round and hard touch of the head, and ftill kept high, although fhe had ftrong pains, 1 thought it was more advifeable not to wait any longer, efpecially as the woman herfelf told me, that in her former labour, which was her firft, a gentleman was called, and was obliged to bring the child away piece-meal. I then had her brought to the foot of the bed, as there was more room than at the fides; two of the pupils fupported her legs. I kneeled, and at every pain introduced my righthand in form of a cone, by little and little, into the vagina. I then found it was the face and neck, with the chin to the left fide of the pelvis; 1 alfo perceived the bones projecting inward, where the lower vertebra of the loins join the os facrum, and forming an acute angle, which was the occafion of the head not coming down lower; but although I found the pelvis narrow, yet the head felt but fmall; and as it was too high for the forceps, there was a probability of faving the child by turning it, and bringing it footling. The face filled the upper part of the pelvis fo exactly, that fome of the waters were ftill kept up in the uterus; fo that when I pufhed up the head, it was with great eafe raifed to the fundus uteri. By pufhing it
up quickly, the thick part of my arm filled the osexternum and vagina ; fo that the remaining watcrs were kept up, till I got the child turned with the breech and legs to the lower part. Thefe I eafily delivered, and expccted alfo to have fafely cxtracted the head; although the pelvis was narrow. I brought the chin a little to the left fide, introduced two of the fingers of my right-hand into the mouth of the child, and with my left held the body. I began at firt to pull with a fmall force; but as the head did not advance, was obliged to increafe it more and more; though to no purpofe. I refted and pulled again with all my ftrength, till the fingers of my. right-hand began ta fail; then I changed hands, but without effect. I retted and changed hands again, and continued to pull till I found the neck and juw begin to give way:. As it was now to no purpofe to try any longcr, becaule the child could not be brought alive, I extracted it with the crotchet in the fame nianner as defcribed in the two lati cafes. The fore and middle fingers of my right-hand were fo over-ftrained by the great force of pulling in the mouth, that they fivelled at the joints next to the back of my hand for fereral days, fo that I could fcarcely move them. Next day the joints at my elbows and fhouiders werc fwelled alfo. The woman recovered.

## C.ASE. IX. and Supplemcat to CASE XI. and Collcto. xxxiii. No. i. Cafe iv.

THE woman had been beaten and kicked on the private parts three weeks before, fo as to occafion a large fivelling on the labia puidendi. She had not felt the child ftir for fourteen or fixteen dajs. Some of thic gentlemen that attended me, had bcen called two or three times fome days before the delivery, but found It was not right labour. She was bled and a pultice applied to the fivelling, which relieved her, fo that it was quite gone bcfore the fell in labour. She was weak and low, having eaten or drank litile fince the time fhe had received the bruifes on her body, which had rendered her incapabie of begging about the fitreets às formerly. When I examined, I found the os internum pretty much dilated, the membranes felt very thick. She had bicen feveral hours in labour, but as fhe was wealf: the pains did not force them down into the vagina. She was very big. I felt with difficulty the child's head, which lay above and over the os pubis, and below that a great quantity of waters. I waited from ten or eleven till fewen in the evening; but there was not the leatt altcration in the parts. As the woman was weak, and I fufpected that the child was dead; from the head being kept up fo high, occalioned by the belly being very much fivelled, and expanded with air, which made it fpecifically lighter than the waters, I refotved to try to deliver her, efpecially as fhe had formerly two chikdren, and according to her account the labours were rot lingering; but fufpeéting there might be dificulty, I waited till all the gentlemen that attended me were convened. I had the woman laid, fupinc acrofs the bed, her legs fupported by the two eldeft pupils. At firtt I defignicd to have broken the membrancs, that the head might be furced down when the waters were evacuated, and the uterus contracted ; but finding the menbrancs high up, and rigid, and that the os externum dilated with a fmall force; I altereal my defign, and introducing my right-hand into the vagina, paffed it up through the os internum into the utcrus. Having broken the membranes, I pafied my hand within them, and found the child floating in a large guantity of waters, which were kept up by my arny locking up the os coternum. I then filt, and told the gentlemen that the belly of the feetus was largely firelled, and that I was then turning up the head to the functw,
and bringing down the breech and legs to the lower part of the uterus; at the fame time placing the face and fore parts of the child toward the back of the mother. When I brought down the feet of the child, the waters contained in the uterus iffued out with great force along my arm, to the quantity of three or four quarts. I then brought the legs without the os externuin, and the fcarf-fkin fripped all off. After wrapping a cloth round them, I endeavoured to bring along the thighs and breech; but could not move them farther. I pulled with greater force, but found the legs were like to feparate from the thighs. I then introduced the fingers of my lefthand along the back part of the pelvis; and found the bignefs of the belly was the principal obitacle. With my right I introduced the fcifars, and pierced it with the points, on which a göod deal of rarefied air and waters were difcharged. After dilating the points to enlarge the opening, I brought them down, and introduced the fingers of my left-hand into the aperture; with thefe I got a firm hold over the os pubis of the foetus, and within the abdomen. By pulling at this, and with my right-hand at the legs, the breech was brought without the externum ; but then I found it was feparating at ths vertebra of the loins from the body of the child. I then refted a minute or two, and introduced the fingers of my left-hand up to the breaft of the child. With my right I paffed up the point of the crotchet, and fixing it there, tore open the breaft and ribs; but in pulling at the crotchet with my right, and at the breech with my left, the laft was pulled from the upper part of the body. I found on tearing open the breaft, that a large quantity of water and blood were evacuated. The hold of the crotchet giving way, I tried to fix it higher ; but evcry part tore fo eafy, that I could not bring down the body. I then was obliged to take out the crotchet and relt a little, for my hands and arms began to be cramped and enervated. After recovering a little from the fatigue, I introduced my right-hand into the uterus, and tracing up to the fhoulders, brought down one of the arms. I attempted to fix a noofe over the wrilt, but it was fo flippy, and the body fo high, that I could not get within the os externum. I again introduced my hand, and was for a little while at a lofs how to proceed to deliver the body and head to the beft advantage; becaufe every part tore fo foon where I fixed the crotchet. Without bringing down the body, I tried to pulh it up and bring in the head; but this laft was fo large and lippy, that I could not turn it down fo as to get the hind or upper part to prefent. Being again fatigued by thefe fruitlefs endeavours, I was obliged to intermit. I then rcfolved to fix the crotchet; for which end I introduced my left-hand up to the fhoulders; and with my right got the point fixed fo firm above one of them and the clavicle, that it did not give way, but brought it down into the pelvis, and without the os externum. I pulled flowly and with caution, left a feparation fhould happen at the neck, and then it would have been more difficult to deliver the head. After I had got the fhoulders without the os externum, I again refted that my ftrength fhould not be too much exhauted. I introduced two of the fingers of my right-hand into the child's mouth, which was a little to the left fide of the os facrum, and above the brim of the pelvis, and with my left-hand I pulled at the fhoulders, which were owrapped in a cloth. Finding the head did not move, and that both the urider jaw and neck were giving way, I again defifted. I now introduced the fingers of my righthand up to the face and forehead, and with risy left paffed the crotchet up betwixt them, till I could find the point above the crown of the head. Having brought down my right, I then took hold of the handte of the crotcher
with it, and the fhoulders with my left. I tried feveral times if the crotchet had a firm hold, and gradually increafed the force of pullng; by which means I brought the head down into the pelvis, and luckily delivered it; the crotchet had fixed near to the crown of the head, and had tore open the fkull, from that part through the fontanelle to the boncs of the forehead. At this lare opening, the brain was fqueezed out, the head collapfed, and came down i ith greater eife. I was afteryards obliged, with a great deal of trouble, to feparare the placenta, which adhered firmly to the fore part of the uterus, but could not effect the feparation till I turned her on her left fude. One thing was remarkable, and affited met much, at leaf it prevented a greater fatigue. Every time 1 intoaduced my hand into the uterus, I found it fill kept from contracting on the child, by fome waters that remained; for although a vaft quantity came off at firit, yet when I brought down my hand, the parts of the child preffed fo clofe down, that there were ftill fome detaineci. My greatelt fatigue was occafioned by my being obliged fo often to pull down and pufh up my hands, as well as by the fipping of the bodjy and crotchet. If 1 had taken the firft metl od I defigned to foilow, the difficulty, I believe, would have been much the fame; for as the woman was weak, the pains would not have forced the head into the pelvis, even after the membranes were broken, and the bulk of the waters evacuated. Befides, as the head was large, and the hairy fcalp fivelled, the forceps could not have brought it down. The only advantage would have been after the hcad was opened, and extracted with the crorchet, that the fhoulders could have been eafier tore down with the inftrument, than the belly, opened in the fame manner; after which there would have been no danger, as in the other way, of leaving the head behind.-Vide collect. xxxiii. No. i. cafe iv.

## CASE XX. and supplement to CASEXII.

AWOMAN near her full time, of her fecond child, was taken with a difcharge of blood from the uterus, which continued to drain for eight or ten days. She was by misfortunes reduced to low circumftances, and had fuckled ber firft child till within three weeks of this labour. it then died; and her grief, joined to the fhock of a fudden furprize foon after, was perhaps the occafion of bringing on the flooding. When called to her, I found her pulfe low and weak, though not frequent. She had no labour-pains, but had been attacked with frequent vomitings, which had helped to dilate the os uteri. On examining, I found the head of the child prefenting with the membranes and waters; the os uteri Ioft and pretty much dilated. As the had loft a great quantity of blood, and there was no profpect of right labour-pains, I thought it fafer for the woman and child, to deliver directly by turning, and bringing by the feet, efpecially after the had told me, that the had been delivered cafily of the firlt child. I had little difficulty of introducing my hand into the uterus, and as the membranes had not been broken, I eafily pufhed up the head, and brought along the legs and body. After I had turned the belly of the child to the mother's back, and a quarter moic, I then brought down the legs, body, fhoulders, and arms. I now introduced a finger into the mouth, and expected, as the had an eafy labour bcfore, to have delivered the head with very little ditticulty; having tried every fafe method, firtt to bring the forchead into the hollow of the os facrum, by pulling the body both upward and downward, and likewifc from fide to fide; then endeavoured to move the face
firft to one fide, then to the other; all my efforts proved ineffectual. I excrted greater force, and continued to increafe it till I found the neck arid mouth hegin to give way; I then declared that I could not poffibly fave the child. I introduced my left-hand along the fide of the child's head, until my fingers paffed the os uteri, along which I introduced a curved crotchet, with its point bearing clofe along the head to the upper part, and moved it backward to bring the convex part over the forehead. This being done, I fixed the point into the upper part above the forehead, then pulled nowly to find if it had a fufficient hold. When I was certain of this, I pulled with greater force, and found the bones of the fkull collapfing, and a quantity of waters come along; the forehead came eafily down into the hollow of the os facrum, and was delivered immediately without tearing the parts of the woman. The uterus contracted fo ftrongly, that the placenta, with very little pulling at the funis, was pufhed down into the vagina, and eafily delivered. The flooding ceafed immediately, and the woman bore the operation better than 1 expected.

The child's head was about a third larger than common, and it was remarkable, that the fontanelie and futures were no otherwife than in a found head, the firt no larger, and all the bones were clofe to one another: in general, when the head is dropfical, the bones are ftretched from one another more or lefs, according to the quantity contained. Dr. Brifban examined the head next day, and poured through a funncl no lefs than a quart or three pints of water, at the opening which had been made with the crotchet into the head; the whole cerebrum and cerebellum were found. The point of the crotchet was fixed at the fide of the fontanelle, which it had perforated. "This aperture allowed the waters to difcharge, the head to leffen and come along. The woman feemed to be in a good way for feveral days; during which the doctor attended her, and prefcribed fome medicines to help herto reft and fweat; but fhe being mifmanaged, and negletted by her nurfe, was thrown into a fever, and died about the $\$$ Sthor 20th day.

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\begin{gathered}
C A S E \text { XXI. and Supplement to } C A S E \text { XIY. } \\
\text { In a letter from Mi. A-, of } B-.
\end{gathered}
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HE was called to a woman, who had been in a lingcring latour three or four days. Although fhe had now and then fainting fits, yet her pulfe was regular and ftrong; the head prefented fair, but very high; which made him refolve to turn the child, and bring it by the feet: this requirct? great force; and after the body and arms were delivered, he was obliged at laft to exert great force in extracting the head with the crotchet. He fays, he abundantly repented the attempting to turn and deliver footling, and wifhed he had waited longcr, as the woman did not feem to be in fucls danger as to require an immediate delivery. He reflected, that by waiting, perhaps he might have fucceeded with the forceps; and if they had failed, and the woman been in danger, it would have been fafer for her, efpecially as the child was large, and the pelvis narrow, to have diminifhed the bulk of the head, rather than run the rifk of her life, by fo great force being ufed ; for although the did recover, it was with great dificulty, and what he did not expect.

## C -4 S E XXII.

TTHE fame gentleman had a cafe fimilar to the prcceding, wherein the woman had been in labour all the day before, and the waters had come off feveral hours before he was ealled. The liead refted over the os pubis, and the pains were almolt entircly gone off. Having laid her on her fide, and raifed her hip higher than her houlders, he cafily introduced his hand into the uterus, and brought down the legs and body of the child; but after many repeated trials, and exerting great furce, he could not deliver the head. Thus foiled, he was obliged to introduce the erotehet, which he fixed on the left parietal bone, near the fagittal future; and at laft, not without fome dificulty, delivered the head. The ehild was very large, and the pelvis narrow, from the projection of the upper part of the faerum, and the make of the bones at the fymphyfis of the os pubis. The placenta adhered to the fore part of the uterus. The woman recovered very well.

He writes, that perhaps I would cenfure him for conduting the operation after this manner, when he knew what fort of pelvis he had to deal with; as he could nor tell but that the head was not only large, but alfo too much offified, to vield to the paffage. He was in hopes, hy the cautions which he ufed, to deliver without the application of the crotehet, efpecially as he found he could turn the child with fo great eafe. -Vide collect. xxxiv. Wo. ii. Cafe xyii.

## $C$ A S E XXIII.

THE fame gentleman writes a third time, that he was feat for to a woman about midnight. The midwife acquainted him, that after the waters broke, though the pains were ttrong and forcing, the head did not advance, but refted on the os pubis; that the often endeavoured to difengage it, but to no purpofe ; fhe therefure tried to turn it, but failed in the attempt, and had brought down a hand, which, with the head, was firmly locked in the paffage. Upon examination, he found the child fituated as above, and the pelvis vcry narrow, from the jutting in of the latt lumbal vartebra, and the upper part of the facrum. Having properly placed her, he endeavoured to raife the head, but could not make it yield in the leaft; then he attempted to flip his hand on one fide: for though it was elofely jammed between the os pubis and facrum, there was room on each fide of the pelvis; but neither could he fucceed in this endeavour. He now caufed the patient to be turned on her knees and efhows, and with much difficulty introduced his hand, but was feveral times obliged to withdraw it for eafe, the great prefure cramping him fo as to render him incapable of reaching the feet. In this fituation he hardly knew how to at?. The head was not only very high up, but did not prefent fair enough for the erotehet; and the contraction was fo ftrong, he almoft defpaired of bringing down the feet. However, as he thought this the molt probable way of relicving the paticnt, he once more attempted it; and afier mull difficuly, fo far fucceeded as to bring down onc foot, and lix the nonte on it. He then brougit down the other, and joining them together, extracted as far as to the chelt, and reached the left arin ; the right locing engaged with the heall, gave him fome trouble, and he fnapped the humerns in extracting it ; but this gave him lefs concern, as there wats no pulfation in the funis. The arms being down, a principal difficulty (the head) ftill remained. He introduced a finger into the inouch, and had very neardiflocated the neek; it wess fo falt locked, that i:e could gain no ground. He therefors infinuated a crotchet,
by which he delivered it in a fhort time. He left the poor woman without any hopes of her recovery. She indeed recruited a little about fix or cight hours after, hut died that day or the following.
 inforzed as a caution to others to quait zuith morce puti encc.

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\begin{aligned}
& C \text { A S E XXIV. (A preternatural one.) } \\
& \text { From MIr. C. Chorly, of Sanky, Lancalbire. }
\end{aligned}
$$

IWAS fent for to Afhton, near Wigan, by a furgeon, to Anne Marth, called the Little Druarf, about one yard nine inches in height, aged 39 years. The midn ife told me the had been four days in labour of her sint child ; that the leg had been without the birth twelve hours, and the patient had now no pains. Ifound the heel toward the pubes, and the fcrozum hanging out much fwelled. After ufing great force, I raifed the body of the child, which gave me more room to introduce my finger betwist the thigh that was ftill up and the body. I at laft, by taking time, and ufing all my ftrength, got the body delivered as far as the fhoulders. Perceiving the cartilages of the fernum driven inward by the jutting forward of the vertebra of the mother's loins, I brought down the arm. I made an incifion with the fciffars at the back part of the child's neck, to introduce the curved crotchet within the foramen magnum, but to no purpofe; after this, I made another opening on the right fide of the neck, feparating the fkin with my finger, higher up than the ear, which formed a fafe canula to receive the point of the crotchet, and defend the mother from being injured. Introducing the crrashet, I tore open the Ikull, and as the head leffened, I delivered the fame. The wonan recovered very well.

## C O L L E C T O N XXXVI.

Cafes in which the head was left either in the vagina or. uterus, and where the body was delivered and Jeparated from the fame.
[Vide Part i. Book iii. Chap. iv. Sect. v. No. ii. and Tab. xxxvi.]

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C \quad A \quad S \quad E \quad I .
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AM1DWIFE, who never had any education, and who had formerly boafted that the always did her own work, and would never call in man to her affiftance, was called to a cafe in which the child prefentel wrong. After the had, with great difficulty, brought down the body, fhe could not deliver the head, from the woman being of a fmall fize, and the child large. During the time of her making thefe trials, the hufband fent in great hafte for me. In the mean time, when the midwife found her endeavours were in vain, fhe refted, to recover from her fatigue, and told thofe who were prefent, that fhe would not wait for the afiftance of the woman's pains. One of the fervants feeing me at a diffance, went in a hurry, and told her I was come. She not knowing that I was called, fell to work immediately, and pulled at the child with great force and violence. Finding, as the imagined, the child coming along, fhe called out, that now fhe had got the better of him. The neck at that inftant feparating, the
body was pulled from the head, and fhe fell down on the floor. As the attempted to rife, one of the affitants told her that it wanted the head, a circumiltance that fhocked her fo much (being a woman of a violent difpofition) that the was immediately feized with faintings and convulfions, ana obliged to be put to bed in another ronm. I juft then arrived, and was furprized to find the houfe in fuch confution.

After being informed of what had happened, I found that the woman ${ }^{6}$ s pulfe was pretty good, and that there had been no difcharge of blood from the uterus, but, what canne now was only from the child's head; which, to my great joy, I found lying in the vagina and pelvis. I lee her lie a little, to rceover of the former fatigue, then examining more particularly, if found part of the fkin of the neck without the os externum. After I had put her in a fupine pofition, I introduced the fingers of my left-harid, and found the month at the right fide, and lower part of the facrum. Introducing two of my fingers into it, I tricd with that hold to bring along the licad; but finding that this would not be fofficient, and being afraid that the under-jaw would feparate if I ufed greater force, I pufhed up my fingers farther, and along the face, and with my right-hand introduced the crotchet to the upper part of the forehead. Here 1 fixed it, and again taking the former hold in the mouth with my fingers, by pulling with them and the crotchet, I delivered the head much cafier than I expected. After having extracted the placenta, and put the woman into an eafier pofition in bed, 复 went and recovered the midwife, by giving her fome volatile fuirits in waterThe child appeared to have been dead feveral days, and I was perfuaded, that if the neck had not given way, but had ftood another pull, the head had been delivered.

This aecident was lucky for me, and rendered the midwife more tractable for the future.

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C \quad A \quad S \quad E \quad I I .
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THE breecli of the child prefented, with the thighs to the pubes, and the body was forced down with the labour-pains; but the midwife not knowing how to turn the fore parts of the child to the back parts of the uterus, brought it along as it prefented. The child being pretty large, the ufed a good deal of force to deliver the head, which not being fufficient. fire fixed a cloth over the floulders, and got ne of the by-fanders to afitit her, by pulling with gieater force: by which the body was feparated frome the head. In confequence of this accident, I was immediately called. I fonad the greateft part of the head Atill above the pelvis. The midwife told me fhe was in hopes that the wnman's pains would have delivered it hefore I came; but that now they had quite left her, and that a flooding was begun. The woman's pulfe was a little funk. I examined the body, ane foond that the child had been cead at leaft ten or twelve days; the ic urffkin was livil, and fome of it Aripped off; and the woman had not felt it move or flir dairing that time. After encouraging her, and giving her fome warm winc and water, and putting her in a fupine pofition, i introduced my right-hand into the vagina, and raifed the head above the brim of the pelvis; then turned it, and brought in the upper part of it to prefent with the face backward, and a little to the left fide. This heings effected, I ordcred an afiiftant to prefs on the belly with to th hands, io keep down the uterus and head in that pofition then op nian the head with the feiffars, I went up along the forehcar and fare, introluced the blunt-hook with my other hand, and fixed the point in the tnouth, which
was now turned toward the fundus. I now withdrew my right-hand; took hold of the blunt crotchet or hook, and introduced the fingers of my lcft-hand into the opening: With there two holds I gradually brought down the head, and delivered it flowly; though with fome difficulty. The placenta, which was partly feparated, followed foon after. The head, in this operation, flipped feveral times before I got it right turned, to prefent with tlic upper part. I alfo had fome difficulty in keeping the head fteady fo as to perforate the fame with the fciffars ; by which both iny hands were pretty much cramped and wearied.

## $C A S E$ IH.

THE bead was feparated muth in the fame mantiner as in the foregoing cafe, but the face was to the right fide: The head was kept high up, from the pelvis being narrow, and the body was eafier feparated, from being much mortified. I was not fent for to this woman till 24 hours after the feparation, the midwife affuring them that the pains would be fufficient to deliver the head; but the woman growing weaker, and there being a fmall difcharge of blood, which now began to increafe, I was fent for: As the exteraal parts were pretty moch fwelled, I with difficulty introduced my hand into the vagina, and pufhing up the lead, turned down the upper part; as in the former cafe; but the tafk was rendered much harder, from the narrownefs of the pelvis, and the placenta lying loofe at the bach of the uterus; this I was obliged to bring down before I could place the head in the right pofition. After I had ouencd the head, I could not fix. the blunt-hook, as in the former cafe; but got a pretty firm hold at the fore part of the car; and luckily the head not being tery large, I brought it graduatly lower, as the cerebrum eracuated, and at late delivered ist The point of the crotchet flipped twice in pulling; but the third time I got a good hold in the outward corner of the left orbit of the eyc.

## $C A S E I V$.

THE arm of the foctus prefente. The middrife fent for a gentle. man in the neighbourhood, who practifed midwifery. He was fo fatigued by the time he got the child turned, and the bindy delivered, that he was mot able to extract the head. In this fituation he called Mr. Steed, of Guy's hofpital; who tried feveral times to deliver the head in the manner deferibed in colleft. xxxi. He aftervards endeavoured to introduce the curved crotehet, and to fix it on the upper part of the child's head, but was prevented by the narrownefs of the pelvis, which cramped and fatigued his hand fo, that he was not able to fix it. After the other gentleman and he had tried this laft method feveral times, and found the head lie fo 'very high, that the fhoulders prevented their going up fufficiently with their hands to guide the inttrument, they at laft refolved to feparate the body from the head; an operation which one of the gentemen performed with an incilion knife, at the lower part of the neck; between the fixth and feventh vertebra. Again they attempted to fix the crotchet; when this dial not fucceed, they tried to punh uf the head, fo as to turri cown the vertex, and open it wilh the fciffars, and then to extrakt with the crotchet, as in the former cales: but iocing both fatigued, they were obliged to defift, and fent for me; and; in the mean time, defired the woman might be kept quiet in bed, After having placed herin a fupine pof:-
tion, I introduced my left hand into the vagina, then raifed the head, fo as to gain admiffion into the uterus. In doing this, I found that the dilticulty in the head coming along proceeded from the pelvis being diltorted; and that the upper part of theos facrum and lat vertebra of the loins jutted conliderably forward. Having found the mouth, I introduced a finger into it, and bringing it downsard, turned the forehead to the right fide, at the brim of the pelvis; then tracing up with nny'fingers along the face and forehead of the child, while an affitant preffed gently with both hands on the abdomen of the woman, I tried to introduce one of the curved crotchets; but the pulfes preventing me from infinuating it far enough up, in this pofition, I turned her to her left fide, and introluced my left hand in the fame manner. Betwixt this and the child's head, I Ilipped up the crotchet with my right-hand, having the head grafped in the uterus with my left, my fore and middle fingers being placed on the right parietal bone near the vertex. I then fixed the point of my crotchet into this part; and after I found that $I$ had tore open the fkull, and that the crotchet had a firm hold, I withdrew my hand. Fixing again the fore and middle fingers into the mouth, and my thumb below the chin, I began to pull with both hands, wiz. at the under jaw with my lefr, and at the crotchet with my right; but finding that it required a great deal of force, I pulled at firt in a flow and cautious manner, that as the crotchet tore open the bones, I might allow time for the brain to evacuate, and the head to diminith in its bulk. I exerted the greateft force at the crotchet, and only a little ar the under jaw, for fear of tearing it off, and lofing that hold, which is of great advantage to keep the head fteady. By increafing the force at intervals, the head began to advance lower and lower. When I hat brought it down into the pelvis, I directed the affiftants to lay the patient in the fupine pofition; then I turned the forehead from the right ifchium backward to the concave and lower part of the facrum; and ftanding up, pulled the head upward, in a femicircular manner, from below the pubes. One lucky circumftance attended this cafe: the woman had no flooding during the whole time, and endured all thefe efforts with great refolution. Finding that the placenta did not in a little time come down3, I introduced my hand into the uterus; and found the part where the head was lodged Aill pretty open.- At the utper part of it 1 perccived the middle of the uterus, contracted in form of an hour-glafs, below the placenta, which adhered to the fondus. I infinu= ated the fingers of my right-hand gradually into this contracted part, while at the fame time I preffed my left-hand on the abdomen, to keep down the uterus. After it was fully fretched, fo as to allow my hand to pafs, I gradually feparated and extracted the placenta, which was adhering firmly to the uterus. When we examined the head, we found the crotchct had fixed on the right bregma, and had inade an opening about two inches long, down toward the temple. In operating, I tried to fix it ncarer the vertex, on the fagittal future; hint the head being nippy, and difficult to keep in a firm pofition, I was glad to ixx it in that part. Indeed I imagined it was fixed higher, an ! the npening much larger, till the head was examined. The woman, although the was much exhaufted by tuidergoing the fatigue of the fe feveral trials, yet at laft recovered much fooner and berter than expectation. When 1 was called (as fuch cafes happen but very feldom) I carried along with me a pair of the long firceps, bent to one fide, A mand's net, Leveret's tire-tête, and a pair of curved ciotcheis. But finding the diffealty proceeded from a narrow pely is, and that the head mout firt be opened, and leffened in bulk; before is could pars, the curved
crotchets feemed the moft fimple and effectual inftrument. If this had failed: then it might have been proper to turn down, and open the vertex with the fciffars, and extract the head with the crotchets. The curved kind feemr better adapted for this purpofe than either the ftraight kind or blunt-hook, to be ufed either with or without the fheath. Dr. Hunter was prefent, and 2ffifted at thisoperation. (Vide my Anatomical Figure, table xxxvi. whick was drawn to illuftrate this cafe.) This fhould be a caution to practitioners; niever to feparate the body from the head, if poffible to deliver without ufing that expedient; but to wa t with patience (when the child cannot be faved) the efforts of the pains, efpecially if the woman is not in abfolute danger; for the head is much eafier delivered with the crotchet, when not feparated from the body.

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C A S \text { E } \dot{V} \\
\text { In a letter from } M r, A-\cdots, ~ o f ~ \\
\end{gathered}
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ANOTHER practitioner was called by a midwife, to a woman of a delicate and tender contitution. She had been a whole day in ftrong labour before the membranes broke; the pains after that abated, and in two days the head did not advance. He found the os uteri fully open, and the forehead of the child toward the pubes. With great difficulty he turned the child, and brought down the legs and body; but in ufing all his foree to deliver the head, both the jaw and neck gave way. Being much fatigued, and the interus ftrongly contracted, he could not introduce his fingers to the head, fo as to fix the crotchet. Having fent for my correfpondent, he, after repeated trials, at laft got his fingers into the orbit, where he fixed the crotchet, and delivered the head, which was large. The futures were firm, and the pelvis was narrow. The patient feemed to be in a fair way of recovery for the next two days; but imprudently fitting up too long, and drinking heating liquors, fhe fevered, and died the fixth day after delivery, without any complaint from the feverity of the labour.

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C \text { A } & S & V I \\
\text { Int a letter from } \\
\text { Mr. Cadby, at Blandford. }
\end{array}
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HE was called to a cafe, in which the midwife had pulled the body of the child from he head, which was left in the uterus. This he im= inediately delivered, by fixing the curved crotchet on the head, and his fingers' in the child's mouth. In Mr. Giffard's Cales of Midwifery, cafe 6gth defcribes the head of a fretus, fix, months old, left in the uterus, and delivered with the hand. Monf. Lamotte, book iii. chap. xxiii. has a calf of the head being left in the uterus, the body having been delivered and tore from the head with great force. And in the Fant cafe of the fupplement to his Treatife, there is a cafe, in which another gentlemar conld niot deliver the head, which was feparated from the body, and left in the uterus. Neverthelef's he went to bed; and the firlt news he heard in the morning was, that the head was deliyered by, the mere affiftance of nature.
DF. Grange, of Hatfield, told me of a cafe, in which he and Mir. Wilfon, of Enficld, were fatigued a whote day in deliveringa heat, which was fo flippy, that for a long time they were not able to open or fix an inftrus. mient apon it: He was convinced, that if they, had had, the inftruments, mentioned in cafe iv. the operation would haye been more eafly performed,

## COLLECTION XXXVII.

Cafes of two or more children delivered at one birth.
[Vide Part i. Book iii. Clap. v. Seet. i,]

## $C A S E \quad I$.

IW A $S$ befpoke to attend a patient, who was of a delicate and tender conllitution, and hid fuffered much in a former labour. I was called to her in the evening, and found the os uteri but very little open. The head of the child prefented; but the pains were weak and feldom. Expecting that it would be tedious and lingering; as the former, Ifent for Mrs. Maddox, my midwife, to attend her, who wast to call me when The found the woman near delivery. I was fummoned in about two hours, and found the os uteri largely open, and the membranes pufhed down withnut the os externum, which had an uncommon feel. When 1 introduced my finger into the vagina, I felt thefe membranes and waters as coming down at the fide of the head. As the mouth of the womb was largely opened, and thefe membranes, with only a fmall quantity of waters, were hanging loofe without the external parts, I pulled them away; but to uching in the next pain, I found another fet of membranes and waters ftill before the Fead. I alfo felt through them that the fontanelle prefented; and by the futures, that the forehead was to the left fide, and the vertex to the right. Being afraid that this pofition would occafion a tedious labour, I pufhed up the forehead, that the vertex might advance ; in doing which, the membranes broke, and the head immediately was forced down to the lower part of the pelvis. In two or three pains more, although the fontanelle ftill prefented in the middlc, yet the child being fmall, the face and forchead turned backward to the concave part of the facrum, and the vcrtex turned out bclow the pubes; and was foon delivered. After I had tied and cuit the funis, and given the child to an affiftant, I examined, to find if the placenta was coming duwn; but initead of that, the head of another child prefented; and as I felt no waters or membranes before it, concluded that' thofe were it' membranes which came firtt down. The vertex prefenting, the patient having frefh pains, and not weakened by the former labour, the membranes being broken and the watcr's gone, it would have been imprudent here to turn the child, and bring it footling, as I commonly ufed to do in other cafes, where the membranes were not broken. On this occafion, I did not mention that there was a fecond child, left the woman fhould be uneafy; but faid that I commonly waited to fee if the placenta roduld come down flowly with the after-pains: and the fecond child being delivered foon after, gave great joy to the mother as well as to the affiftants. The two placentas camc likewife down gradually in one cake.

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C A S E I I .
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WHE N called to this cafc, I was informed by the midwife, that the had delivered the woman fafely of the firt child, which came in the natural way about fix hours before. She faid there was a fccond child, which lay at firf fo high, that fhe could not diftinguifh whether it came right or wrong, till the woman had freth pains, which increafed, and grew ftronger in about three or four houss after the firf child was de-
livered. Thefe forced down, and broke the membranes"; although the pains had been frequent and ftrong, and the head pretty low down, it was ftiil fome how retarded. I examined, and found that the right ear prefented ; that the face was toward the left fide of the pelvis; and that the right bregma refted on the pubes. During the next pain, I introduced my band into the vagina, and pufled up the head at the left fide. As the pain continued and increafed, I withdrew my hand, and the vertex was puthed down the lower part of the right ifchinm. Being called to another patient, I left the woman to the care of the midwife, expecting the would foon be delivered with the labour-pains. In about two hours I was again called, and found the head much in the fame fituation as when I left her, viz. the forehead to the upper part of the left ifchium, the occiput to the under fart of the right, and the left ear at the pubes. The midwife told me, that the had feveral ftrong pains after l went away, but that now they were grown weaker. She alfo faid, that there was a pretty large fhow at times, and feemed apprel:enfive of a flooding coming on. I then caufed her to be placed in a fide polition, and delivered the child with the forceps as defcribed in collect. xxviii. part ii. I found at frit the delivery was retarded by the wrong pofition of the head; when that was remedied, another cifficulty proceeded. from the uterus being contracted before the fhoulders, and the funis furrounding the neck three times; which laft I difentangled, by' flipping it over the head, after it was delivered. This fecond child, contrary to moft cafes of twins that I have attended, was much larger thas the firft. The placentas formed one cake. A cafe of the fame kind fucceeded in the fame manner with Mr. Palmer, of Bath, when he attended my isctures.

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C A S E \quad \text { IH. }
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IWAS kefpoke, and called to a gentlewoman in labour, who had been very weak and low for many months, and much emaciated, from a fpina ventofa in her knee; fo that every body was furprifed at her being with child. She was delivered in a few pains after I arrived. While I was employed in tying the funis, the told me that the motion of the child had been different for the l.ft fourteen days from what it had been before ; that in the laft fortnight the had felt it low down, and on the right fide; whereas, before that time fhe had perceived it ftir higher up, and at both fides. Afier delivery, fhe laid her hand upon the abdomen, and called out that it was atill very big, I then examined for the placenta, and fornd the membranes, waters, and head of another child prefenting. Without faying any th.ng of the matter, 1 nipped my hand into the uterus, broke the membranes, and after getting my hand within them, turned the child, and delivered by the feet. By its being very livid, and the fcarf-ikin eafily fripping off, it appeared to have been dead for the face of a fortnight. The pl.centa formod two diftinct cakes.

## $C A S E I V$.

AWOMA N who had bore children before, and was come near to her full time, fell in labour about fourtcen days after fhe had been frighrened by the feconch mock of the earthquake which happened that year, "The midwife telfing her hufband that there was fomething uncommon in his wife's cafe, and I being immediately called, fhe told me
that the certainly found two children prefenting at once, and was afraid that they might cutangle and interrupt one another in the paffage ; that the head of one prefented, which fhc fufpected was dead, from the fkin of the head feeling foft and pappy, and the bones of the flull loofe within the integuments : that the legs of the other prefented, which the was certain was alive, from feeling the child move them. No fooncrhad the midwife given me this information, than the patient was attacked witho very ftrong pain, and the midwife was defired to make hafte into the room, for that the would certainly havc work immediatcly ; accordingly the had juft time, to receive the firlt child, that prefented with the head: : it was dead, as the midwife had foretold, and appeared to have been fo from the time that the received the fright; and in two or three pains more, the child that prefented with the feet was forced down, and delivered alive.

## $C A S E \quad V$.

SOON after I began to teach midwifery, I was called to one of the poor women who had befpoke me to attend her with my pupils. When I arrived, I found the brecch prefenting, with the thighs to the fa-. crum ; but as the pains were gone off on the difcharge of the waters, and the breech was ftill high, I expected that it would require fome time to fretch the parts more fully before it could come lower down, and be delivered. I went to a coffee-houfe in the neighbourhood, and fent for thofe who then attended me; but before they all arrived, a meffenger came in a hurry, telling us, if we did not make hafte, the child would be delivered, before we could reach the place. This was actually the cafe. I told the pupiis, that although they had miffed fecing the labour, yet they would have an opportunity of obferving the delivery of thc placenta. I then examined; but inftead of the placenta, I found the breech of another child prefenting, in the fame manner as the firt, which in two pains more was delivered with very little affiftance; and the two placentas, which formed only one cake, immediately followed. The children were fmall ; and al-. though the woman was of fmall ftature, yet neither fhe, nor any of her aequaintance, fufpeched that fle was with child of $t$ wins.

## $C A S E V$.

TH Earm of the firft child had been protruded feveral hours after the membranes broke, and pretty much fivelled beforc I was called.-As the woman lay on her left fidc, I tried to introduce my hand into the vagina; but finding the arm obftructed the paffage, I doubled it, and eafily pufhed it before my hand into the utcrus. While i went up farther to feareh for the feet, I found another child inclofed in its membranes; a circumftance which made mc advance more cautioufly, for fear of breaking them, as thcy lay toward the left fide and fundus uteri, but more fo:ward than backward. I had introduccd my right-hand, and finding that the lers of the child lay backward, and to the right fide, toward the fundus, I was obliged to withdraw that hand, and introfluced my left, with which I brought down the legs, and delivered that child. The uterus inmmediately contracting, the placenta and membranes of the firt child, with the membranes and watcrs of the fecond, prefented ; but the placenta was loweft, and being feparated from the uterus, came cafily down into the vagina, by pulling gentiy at the funis. Having delivered the cake, and finding a pretty
large quantity of blood follow, I infinuated my right-hand into the vagina, and found within the membranes the head of the other child prefenting. Purthing farther up, and breaking the membibanes, I turned this child, and brought. it footling alfo, as defcribed in collect: xxexiio. I ordered a cataplafm to be applied to the firf chilc's arm, which was fwelled; the fwelling in a few clays fubfided, and the child did. very well.

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C \text { A } S^{\prime} E \text { VII. }
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IWAS called to a woman in labour. The firf child prefented with the hands, feet, and funis in the vagina; I tried, as the lay on her left fide, to introduce my hand and deliver the child, but as I could not keep the patient fleady in that pofition; I turned her to the fupine pofture. Af: rer I had introduced my hand into the utcus, I found the head high up to the left-fide; I then withdrew my hand, took hold of the lega, and delivered the child. Having tied and feparated the fonis, I defired the midwife tafit down and deliver the placenta; by allowing it to defcend flowly"; but feeing her attempting to pufis up her hand; I defired that the might ra-: ther wait, and fignified, if there fhould be ny dificulty afterward; I would affirt. She telling me thele was fome more work for nie, 1 immediately' fafpected that there was a fccond child; which I found 'prefenting in' the fame manner, and brought footling alfo. The placenta not following for ${ }^{1}$ a conffderable time after, I pufhed up my right-hand into the uterus; fenarated and delivered one that adhered to the left fide, and after that the other which adhered to the fundus.

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C A S E . \text { VIII. }
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Three childern delisered by Mr. Profer.

IWASfent for to a poor woman who had been in labour fome hours, being cldeft pupil to Dr.. Smellie, who was then otherwife engaged. I zouched her, and felt through the membranes both hands and feet blended together. The os internum being well dilated, I broke the membranes, difengaged the latter, and pulled them down to the paffage, puhhing upthe head at the fame time; by thefe means I finified the delivery.

I fought afterward for the placenta ; but finding a more than ufual refiftance; I flid my hand along the cord into the uterus, where I found the membranes and waters of a fecond child: I gave a gentle pull to fee if the firlt had not its own placenta; but finding a refiftance, I opened the memhranes of the fccond, which prefented like the former, and confequently, yequired the fame treatmenti: Having divided the cords; I pulled themfometimes alternately, and fometimes together hut-without effect; fo was* induced to introduce my hand a fecond time, and extracted two placentulas:firmly connected by an intervening membrane.' By this time I thought my labour ended; but was deceived; for in a few minutes after the complained of frefh pains; and on enquiry, it appeared to be a third child, whichs prefented a right-hand and foot. I introduced my left-hand into the uterus, and pufied up in order to get at the other foot; but the uterus being i frongly contracted to the boidy of the child, it was with great difficulty I accomplifhed it ; the placenta followed foon after.

## $C A S E I X$.

The delivery of three cbildren; deforibed by Dr. Harevie, Landon.

HE was called to a patient about the latter end of the fourth month of her pregnancy; but fhe was as big as one come to the full time, and apprehenfive of an afcites in the abdomen; however, on examining the belly, and the being fenfible of the motion of the footus, he found the bignefs proceeded from the fretching of the uterus. Her complaints from this time till fhe fell in labour, were chiefly çardialgia, yomiting, difficulty of breathing, and coftivenefs; for all which the was often bled, and feldom miffed taking magnefia alba. From the conftant vomiting the daily lolk ftrength, and was much emaciated. When the was taken with labour-pains he found the of uteri open to the diameter of half-a-crown, and the head of the child very low. Her pains being flow and weak, he ordered a clyfter, which operated. After which the pains went quite off. When he called next day, he was informed that the membranes were broken, that a Jarge quantity of waters were come off, and fill continuing to drain away and he was informed that fhe had not been fo eafy for four months; for fie could now breathe, and had taken fome nourifhment, but had no pains He was again called the following day at one o'clock in the moming. The pains were not ftrong or frequent; but the os uteri being fufficiently dilated, the child was born in about fifteen minutes. After tying the navel-fring, and giving the child to the nurfe, be found the head of another prefenting At the firlt pain he broke the membranes, and in two more this child was alfo delivered. After taking care of this, he found there was a third from the fill great diftention of the aterus; but the patient being faint, and in order to avoid the danger from the fudden emptying of the uterus, he pinned a long towed moderately tight round the abdomen, and gave her the following draught :- B, Confect. damocrat. 3 fs. Aq. alexiser. fump. $\quad$ ifs. Aq. nucis mofeh. $3^{i j}$. Tinct. thebaic. gt. xv. Syr. alb. 3i. M.-Examining again, and not finding the membranes punhing down, or any part of the child; and being apprehenfive that it might prefent wrong, he fearchecz higher, and found the head and membranes at the brim of the pelvis. Thefe being broken, this third child was delivered in the courfe of the next pain. Although the patient had hitherto loft but little blood; yet as there was more coming, and the woman was weak, he gently affitted and broughe the placentas away; two of them were joined together, and one feparate; By this time flre was very faint; but the draught taking effect, fhe dropped afleep, and after fome hours, fo far recovered as to be able to bear the fas cigue of fhifting. She had a fevere cough for three weeks before delivery which gradually abated afterward; and fire pretty well recovered. The children were three fine boys, alive and well. He obferves, that from feveral twin-cafes which have fallen under his notice, he has reaton to think. that one principal evidence of a woman being with child of more, than ones is the uterus rifing much earlier up in the abdomen than is ufual when there is only one. The above patient was as big at the latter end of the fourte month, as women arecommonily at their full time.

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\begin{gathered}
\text { C A S E } X \\
\text { By Mi. Giffard, Cafe. } 15 \mathrm{r}
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1W A S fent for about four o clock in the morning to the wife of a fnuffbox maker in, Dean-Street, near Red-Jion Square, who was, according to herealculation, alrout feren moaths gone with child. Ihad been
with her about three months before, when the was under fome apprehenfions of mifcarrying, and by proper applications 1 cured her at that time; but now "one foctus was brought away before I was fent for. I would have immediately paffed my hand in fearch of the placenta, but the woman could not be readily perfuaded to admit me, and made fome ftruggle, until fhe was overcome by the perfuations of her friends, and the apprehenfion of the danger fhe was in, thould it not be brought away; fo that at laft the per'mitted me to pafs my whole hand into the vagina, and foon to the os internum; which I found fo much contracted, that it would fcarcely admit the ends of four fingers. But having by degrees dilated the orifice, I inroduced my hand into the uterus, and found fomething harder than a placenta. This proved to be another foetus inclofed in its membranes, which -were nuch diftended by the waters. I broke the membrancs immediately with the ends of my fingers, and then putting my land within them, I fearched for the feet. The firt part I met with was the head, which I paffed by, and went on in fcarch of the feet, and foon found one foot. This I brought out, and as I had fuffieiently dilated the os internum, the foctus being likewife very fmall, I jutged I might cafly draw it out by the leg already brought down, without giving her freth pain by paffing up my hand again to fetch down the other. I therefore took hold of the leg I had fecured, and gently drew it forward; I fay gently, for if I had ufed any force, I might have toren it from the body, the leg being very fmall and tender ; at the fame time I advifed the woman to affitt by bearing down Atrongly, which much contributed to the bringing out of the hips, body, and head, all which foon followed. Upon palling up my hand to fetch the after-burthens, there being two entirely feparate, I met with the burthen of the fuetus firl born, protruded and lying in the vagina ; this I immediately brought away, and then repreffing my hand, I found the other lying within the utcrus, but wholly feparated from it, fo that I had no more difficulty in bringing this thain the former.

In the Memoirs of the Acadcony at Paris, H. 1727, page 15, 10, 21 , is an account of two children delivered eight day's after one another.

# C OLLECTION XXXVIII. <br> Of monfirous births. 

[ Vide Part. i. Book iii. Chap. v. See.. ii.]

## $C A S E \quad 1$.

THE following hiftory is of two children adhering to one another at the fide of the breafts and bellies: they have both hare-lips, and but one navel-1tring; the veffels feparate as they enter the flin of their bellics, and cach child has its own. Both were fent to me by the fame gentlcman, and are among my collction of foctufes, together witf other ufeful preparations, collecked from time to time for the informationand improvement of fudents, and now in the hands of Dr. Harvic, my fucceffer in teaching of midwifery.

SIR,
AGREEABL $t$ to my promife, I have fent the preparation, which I hope will fully anfwer your expectation, The mother, who before had

Feven or eight children，mifcarried with thefe at the end of twenty weeks， from her great unealindfs，the imagines，in longing for a chop of bacoh． She was takenat frlt with a confiderable flooding，which was moderated by bleeding and anodyne medicines．The next day finding fome flrong pairts， her midwife wàs fent for，who delivered her in a few hours．Notwith－ flanding their fmallnefs，and orie of them prefenting with the feet，the found great difficulty in extracting them，as you will fee by the laceration of one of them，which is ftitched up again．They had no figns of life。 The mother has fince had two fine childiten：

It is remarkable of the father of thefe childien＇，that he had had no teeth before the age of one or twio and twenty；but has now as good a fet as I ever faw，and can lift up very great weights with them，\＆c．From Henty North，furgeon，in Stirminfter－Newton，in the county of Dorfet：
$C A S E$ II．

## Part of the Skull zuanting．－From Mr．Pierce，of St．Thomas＇s Hofpital＇s apotbecary．

ITwas a male child，of an uncommon fize in his body and limbs，with very broad fhoulders，and a fhort thick brawny neck．The head was fmaller than thofe of moft infants that come in due feafon，as this did．The nofe was broad and flat，the eyes full，large，and very prominent，fo that the lids could not cover them；the ears were remarkably large and thick． There was no f：ull to cover the brain，and the edges of the bones of the lower part of the head were as ftraight and fmooth as if they had been fawn afunder immediately above the orbits of the eyes．There werc wanting the os frontis on the fore part，and on the back part almoft the whole of the becipitis．The offa liregmatis were entirely wanting；and ds there was no fcalp，the brain was covered by nothing but the pia and dura mater，which looked of a dark livid colour，and was puihed out in divers places by the brain，fo that it made an unequal furface for want of bones 10 confine it． This inequality and foftuefs，together with the edge of the bones，was that furprized the midwife，and made her expect a more difficult delivery． The account then given by the mother，as the probable occafion of this difatter，is as follows ：－Wheñ the was near two months gone with child， the was grievoully frightened with thinking on Lord Lovat；who was that day to be beleaded．Her hufband was gone to fee the execution amongft the crowd on Tower－Hill ；and when the news came to her hearing，that a fcaffold was fallen down，by which arcident many people wete hurt，and fome killed on the fpor，the immediately feared that her hufband might be of the number，and was greatly affected．While the was under this dread and apprehenfion，an officious idle woman came to lier and faid，that a friend of her＇s，for whom the had a great regard，was killed on the fpot， and that the faw his brains on the ground ；upun this the poor wo man put both her hands on her head in great agony，and immed：ately fainted away．

C AS E I．－Philofophical Tranfactions，N0 65，p．2096，an accumnt of a monitrons birth，by Dr．Durton，which had tivo heads，two necks， fourarms，and fout legs，perfect and well flaped ；but only one trap： There was no appearancc of lungs；and only one large heart，one mid iff， one umbilical cord，one large liver，one tomach，four kidays．two uri－ nary bladders，two wombs．There was ouly one cofon，which turminated in two inteftina recla．It weighed eight pounds and a quarter；ant the length from head to fout was full eight inches and a half．

CASE II.-There is another monftrous female birth by Dr. Samuel Morris, $N^{0}{ }^{13} \mathrm{~S}, \mathrm{p} .96 \mathrm{r}$. There were two heads; and all the parts double above the diaphragm, and fingle below, except the appearance of two ftomachs. The uterus was of a common fize ; but the clitoris large ; there were only two legs and two arms; the fecundines were very large, and weighed about eight pounds. One was dead, and the other juit breathed.

CASES III. and IV.-Anothcr account of a double birth, in which the children were joined at the breaft. No. 2, p. 21. They did not wake and fleep together. They alfo cried, fuekch, and exornerated apart.

The fame paper relates, there was fuch another birth in Wales, and the children lived fo long till they could talk to each other; which they did in tears, when they thought that one muft furvive the other ; but both happened to die together.

CASE V.-A monftrous birth from Mr. Robert Taylor, much of the fame kind as cafe iii. and iv. in the fame Tranfactions, $N^{2} 308$, p. 2245.

CASE VI.—Philofophical Tranfactions, No 453, p. 837. A monftrous boy feen at Montpelier, by Dr. Andrew Cantwell, about thirteen years old; who bears the lower parts of another boy; the fore parts of each face one another.

CASE VII.- Reflections on generation, and or momters, by Dr. Supervile, Philofophical Tranfactions, No 456. p. 294.

Befides the above cafes, there are feveral other papers defcribing births, in which the bones of the upper part of the cranium were wanting; in moft of which the cerebrum and cercbellum were alfo wanting; thofe that were born alive dicd foon after the birth.-Vide $\mathrm{N}^{\circ} 99, \mathrm{p} .6157 \mathrm{~N}^{\circ}{ }_{2} 26$, p. 439. $\mathrm{N}^{\circ} 228$, p. 553. $\mathrm{N}^{\mathrm{Q}} 234$, p. 717. $\mathrm{N}^{\circ} 251$, p. 141. $\mathrm{N}^{\circ} 320$, p. 310 .

In the Philofophical Tranfactions, No 487. p. 325, a letter frony John Huxham, M. D. to C. Mortimer, M. D. concerning a child born with an extraordinary tumour near the anus, containing fome rudiments of an embryo. In the Philofophical Tranfactions, $\mathrm{N}^{\circ} .472$, p. 10 , an obfervation of a fpina bifida, commonly fo termed, by Geo. Aylett, furgeon, at Windfor.

In the Memoirs of the Academy of Sciences at Paris, M. 1701, p. 112, is an account of a foctus found in the ovarium of a woman.-In the fame, H. 1703, p. 43, an account of a puppy whelped without a gullet; a circumfance proving that the foetus could not he nourifhed but by the funis. In the fame FI. $171 \mathrm{I}, \mathrm{P} .26$, defcription of a fuetus without cerebrum, cerebellum, or fpinal marrow.-Id. 1712, p. 40, of a male foetus at its full time, which had neither brain nor fpinal marrow, and which lived 2 I hours, and took fome nourifhment.-Ibid. I732, p. 309 , of a monffrous foctus with two bodies, the one male the orher female.

In the German Ephemerides there is a great number of hiftories of fuch monftrous productions. Vidc alfo Ruyfch.

## From Mazriccaz.

IN page 53 , and obferv. 64 , he mentions having feen a dead child of a woman lately delivered at feven months of a monftrous figure, having the arms and the feet quite mif-fhapen, and the head without any neck, joined immediately to the breaft, having on the head, inftead of the brain, a fort of thick flat cap or cawl, like a red wern. This had a production like a tail which rcached along the fpine as far as the os facrum ; and on the right fide of the navel there was a confiderable livid tumour like a ventral hernia,
in which feveral of the contents of the abdomen were contained. This child had been dead fome days before it was delivered, as appeared by the epidermis, whieh came off cafily; and the monftrous figure night be imputed to the diforder of mind and body which a great fright or vexation the mother met with in the beginning of her geftation had thrown her into. In page 301, and obferv. 363 , he mentioncd his having delivered a woman of her firt child, which had all the flefhy or mufcular parts of its body quite hard and fcirrhous. In obferv. 118, and page 63, he gives an aceount of his having delivered a woman in the eighth month, of a child whofe head was of a monitrous figure, being without any brain; but inftead of all the upper part of the head, there was only a reddifh brown fubftance; there appeared likcwife the inferior extremities of the oceipital bones, and the two eyes very prominent. Its feet were turned inward. This monftrous conformation was afcribed to grcat fatigue in a journey. He mentions having feen at the fair of St. Lawrenee, two male children dead, whofe bodies were joined together toward the upper part of the thorax. The mother had been five months gone; but no particularities are mentioned at the birth.

Monf. Lamotte, book iv. ehap. I4, gives feveral cafes of mutulations and deformities in children.

## COLLECTION XXXIX.

## The Coffarian feation performed on the dead as well as the living Jubject.

[Vide Part i. Book iii. Chap. v. Scct. iii.]

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N & U & M & B . & I_{0} & C & A & S & E & I .
\end{array}
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IW A $S$ called by a midwifc to a woman who was attacked with a vio lent flooding ; but fhe being unwilling that I hould examine, and the difeharge being ftopped before I reaehed the houfe, I ordered a mixture of the tinctura rofarum, and liquid laudanum, to be given as there fhould be occafion; and defired them to fend for me if it fhould again return. She was within a fortnight of her full time; the difcharge was fudden, in a large quantity, and foon flopped; fhe continued free all that day, till toward the evening; the flooding continued all night; and I was not called till next morning, when I found her exceffively weak and low. Although fhe had. no figns of labour, yet the os uteri was foft, and a little open, and fomething like either a coagulum of blood or the placenta prefenting. Before I had time to put her in a pofition for the delivery, fhe fainted away, was thrown into convullions, and dicd inftantly. As there were none but the hufband and nurfe prefent, I immediately fent for an apothecary, who lived next door. All the by-ftanders being fully convineed of her death, I immediately made a large opening in the abdomen, with a view to fave the child. Though the woman was pretty fat, yet the parietes of the abdomen were thinner than I expected, from the large extenfion of the utcrus. I then made a large opening in the utcrus alfo, whieh was not a quarter of an inch thiek. A large quantity of waters were immediatcly difcharged into bafons, in all about two quarts. It then extrafted the child, which was large and plump, but had an figns of life,

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and feemed to have been dead fcveral hours by the fiffnefs of the joints. $\mathbb{I}$ now leifurely examined the uterus and fecundines. The uterus and the woman's body feemed to be quite deftitute of blood; for fcarce one drop apv prared on opening the parts. Ifeparated the membranes nowly, which adhaced to the infide of the uterus. In this operation, I perceived numerous filaments, like hairs, that were extended; and in feparating, fome fhrunk i.to the uterus, and fome to the membranes. I found the placenta adhering to the lower part and left fide of the uterus, and about three fingers b:eadth of it lying over the os uteri. I then alfo feparated the placenta, and found filaments about the fize of hogs' brifles, fhrinking in as the former. All this part of the placenta looked florid, but that which was difengaged, and over the os utéri, appeared livid, and fplit in the middle; which probably was the occafion of the child's death, by allowing the blood to be difcharged from the placenta. The woman had eafy labours in her former children. The os ateri was thin, foft, and open to the breadth of half a crown. I dilated it with eafe, which fhowed, that if I had been fent for in the evening, the might have been fafely delivered. The head prefented; b!tit the hurry, I did not then obferye the pofition of the body.

## $C A S E \quad H$.

THE woman was turned of 40 , of a grofs habit, and had never bore a child, In the feventh month of her pregnancy fhe received a fall, that brought on a large difcharge; which however, by proper management was foon reftrained, though it commonly returned on the leaft motign or exercife. About the middle of the eighth month I was called, when it had returned in larger quantity than bcfore; but it diminifhed by degrees, and foon fopped altogether. What feemed to me moft neceffary at that juncture, was to keep up her ftrength by a nutritive diet, confifting of the lighteft kind of food. But being apprehenfive of danger from her great weaknefs, I advifed the hufband to call in a phyfician; who approved of what had been done, and ordered the fame regimen to be concinued. After this fhe went on tolerably well, having now and then fome fimall returns, though not fo much as to require any other method; for the delivery could not have been attempted with any probability of fuccefs, even although the difcharge had been in greater quantity, the os internum boing clofe fhut, and extromely rigid. Two or three weeks before her full time, fhe was taken with flight pains, upon which I was called, and found the os internum open about the breadth of a fixpence and within it a foft fubftance, that felt like the placenta or coagulated blood. As fhe had refted but indiffcrently the preceding niglit, was faint and iveak, and had fome fmall returns of the difcharge, I defired a confultation with another of the profeffion ; and the family being ftrangers in England, mentioned fomc of the moft emincnt in my own way. One of the women propofed Sir Richard Maningham; but he being engaged, Dr. Sands was fent for; who gave it as his opinion, that it was ftill proper to fupport her ftrength by broths and nourilhing food, and more fafc to wait until the flight pains fhould bring on the right labour, than to afe any violence to deliver her immediatcly, I was again callcd about nine o'clock the fanc night, when The was taken all on a fudden wieh frequent faintings; in one of which the expircd as I entered the room. This fudden alteration prevented me from making any attempt; and indeed, bad not this event happened, I Hould have been afraid of her dying in the operavion, becaufe of her grafs
and weak habit of body. Cafes of this kind require the utmof prudence and caution. I have favcd many women and children by immediate delivery, when the paticnts were not very low and weak, or wore out with frequent loffes of blood, and when the difcharge happened all on a fudden, in a good conftitution, the parts being open, foft, and ufed to extenfion by a former birth; but when the conftitution is grofs, the parts rigid, and the patient weakencd by interrupted floodings, I have always practifed the foregoing method, which has often been attended with fuccefs.

As foon as all prefent were fatisfied that this perfon was dead, I opened her abdomen, and having taken out the child, examined the utcrus. I found the placenta firmly adhering to its inferior and pofterior parts; about two fingers breadth of its lower edge was feparated from the os internum, which it covered; and this was what Dr. Sands and I had felt in the morning. Hawing extracted the fecundines, I tried with my hand to open the os internum from the infide of the uterus; which with great force I performed, not without tearing it about two inches on one fide. By this it appears how difficult it is to dilate this part in women going of a firft cliild, efpecially when they are pretty old. Indeed it is fometimes impoffible to be done before they come to their full time; and even then, not until the parts are thin, foft, and largely opened by previous labours; as defrribed in col, xxxy, cafe viii. and $x$.

## $C A S E$ III.

THE woman was above eight months gone with her fourth or fiftly child. She had got up and fatigued herfelf pretty much in the morning; in confequence of which the was feized with pains in the back. She tried to make water, and all on a fudden was taken with a violent flooding, which almoft filled the chamber-pot. Her midwife, Mrs. Draper, being fent for, defired they would call me immediately. When I came, the flooding was flayed. I cndeavoured to examine, but could not reach the os uteri on account of her fhivering. As fhe was cafier, and not much weakened, they would not allow me to perfif in my endeavours. I told her friends the danger to which the would bcexpofed, if the flooding returned with violence; and exhorted them in that cafe to fend for me immediately. In the mean time, as her pulfe was full, I ordered ten ounces of biood to be taken from her arm, directing her to keep in bed, and take frequently two fpoonfuls of the following mixture:-Infuf, rofar rubr. $\bar{z} \mathrm{v}$. Eilix. vitrioli, gut. $x$. Syr. e meconio, $\overline{3} j$; and that a linen ragdipped in the following deco:tion fhould be put up the yagina:-M. Cort. granator. querci. flor, balautior. rofar, rubr. $\bar{a}$ jj. coq. in aq. font. q. f.
 tacked with a flooding about eleren at night, and fent for the midwife; and though fhe was not at liome, they delayed calling me till about fix in the morning. I felt her pulfe, which I could farce diftinguifh : her extremitics were cold, a cold fweat had fpread all over her face and breafts, and the could hardly fpeak. I immediately ordered her a cordial julep, with tinctur. caftor, and fr. falis ammoniac.; and in the mean time gave he: fome warm red winc. Her veffels werc fo much emptied, that the flooding was ferous and much hayed. I'ordered ligatures above the knees and elbows, and warm cloths and bricks to be applied to her feet and hands. All thefe feps were taken in order to recover her itsength and firits before $I$ attempted to deliyer ; A)ut before my dircetions could be put in practice.

The was taken with a violent convulfion, and expired immediately. I then proprofed to try to fave the child, if alive, by performing the Cæfarian operation; a propofal to which they agreed. In order to prevent reflections, and afcertain that the woman was really dead, I fent for the apothceary, and immediately opened the abdomen and uterus. Then I extracted the child; but felt no pulfation in the funis umbilicalis; neither was there any puliation felt at the heart. I rubbed the child's head with fpirits, flapped the nates, and fhook the body to give pain and make it fhrink. A nifus of thiskind, operating on the nerves, fometimes flimulates the heart to contraction, and affords an eafy admiffion of the air to rufh into the lungs. I then tried to inflate the lungs, by blowing in at the child's mouth ; but all thefe efforts were to no purpofe, though made in lefs than four minates ofter the mother expired. The child was plump and full grown; the fcrotum and lips were not livid: but the joints were a little rigid; a circumftance which denoted that it had been dead fome hours. Inow examined more narrowly the following particulars:-On opening the woman, I found the parietes of the abdomen thin and tenfe from the ffretching of the uterus. 1 made an incifion with an armed lancet, which was the inftrument eafieft procured, from the navel along the linea alba to the offa pubis, through the integuments and peritonæum. The uterus, which was fully diftended with the waters, appeared through the openings, and ftretched the lips feveral inches from cach othcr. I then opened the uterus, which was about three eighths of an inch thick; there feemed sbout three or four pints of water contained in the membranes. When I came to examine the adhefion of the membranes and placenta, I found the membranes adhering every where to the uterus; and on feparating them flowly, obferved numerous fmall filaments like hairs extended from the one to the other. The placenta adhered to the back and lower part of the uterus. I incroduced my finger up the vagina to the os uteri, which was opened about half an inch, and found the lower edge of the placenta covering it on the infide, adhering all along the lower and back part of the uterus. This I feparated nowly from the uterus; and here likewife appeared filaments rifing from the one to the other, as in the membranes; but as large as hogs' briftles. But there was a greater roughnefs or inequality, refembling fmall indentations in that part of the uterus, and not fo fmooth as where the membranes adhered. There was no red blood in the veffels to be feen, becaufe the body was quise exhaufted. Where the uterus was opened, there appeared the mouths of a great number of veffels, fome of them half an inch in diameter. The flooding feemed to proceed from the pofition of the placenta over the os uteri, which always happens when the placenta prefents firft. The head of the child was turned down to the os internum.

Monf. Lamotte, in book iv. chap. xi. mentions fome cafes from other authors, and gives feveral himfelf, in which the paffage to the uterus was fhut up by callofities. But he opened and made way for the birth of the children, without being obliged to perform the Cæfarian operation. Vids collect. xxxi. cafe xxvii.

## $N \cup M I B, \quad C . \quad C S E I$.

Doferibed by Mr. Duncan Stervart, furgron, in Dungamnon, Ireland.

THE hifories of the Crfarian operation being fo few, I fend you the following:-Alice O'Neale, aged about 33 years, wife to a poor farmer near Charlemont, and mother to feveral children, was taken in la-
bour, but could not be delivered of her child by feveral women who attempted it. She remained in this condition 12 days; the child was thought to be dead after the third day. Mary Donally, an illiterate woman, bue eminent among the common people for extracting dead births, being then called, tried alfo to deliver her in the common way; and her attempts not fucceeding, performcd the Cæfarian operation, by cutting with a razor, firft the containing parts of the abcomen, and then the uterns; at the aperture of which fhe took out the child and fecundines. The upper part of the incifion was an inch higher, and to one fide of the navel, and was continued downward, in the middle betwixt the right 'os ilium and the linea alba. She held the lips of the wound together with her hand till one went a mile, and returned with filk, and the common needles which taylors ufe. With thefe fac joined the lips in the manner of the ftitch employed ordinarily for the hare-lip; and dreffed the wound with whites of eggs, as the told me fome days after, when led by curiofity, I vifited the poor woman, who had undergone the operation. The cure was completed with falves of the midwife's own compounding.

In about 27 days the patient was able to walk a mile on foot, and came to me in a farmer's houfe, where fhe fhowed me the wound covered with a cicatrice; but fhe complained of her belly hanging outward on the right fide, where I obferved a tumour as large as a child's head; and the was diftrefied with a fluor albus, for which 1 gave her fome medicines, and advifed her to drink decoctions of the vulnerary plants, and to fupport the fide of her belly with a bandage. The patient has enjoyed very good health ever fince, manages her family-aff:irs, and has frequently walked to market in thistown, which is fix miles diftant from her own houfe.

The following is from Dr. King, in the fame volume, article 38. There is another woman lying within five miles of this place, from whom a midwife took a child, by the Cæfarian operation, near two years ago ; I faw the poor woman foon after, and drew out the fieedles which the midwife had left to keep the lips of the wound together. I pcrceived the mufcles contracted into a lump at the lower part of the belly, which increafed, and at laft broke and ran confiderably. This woman is capable of doing fomething for her family, with the affiftance of a large bandage, which keeps in her inteftines. 'This child which I faw, was not extra-uterine; for fcveral befides the midwife affured me, that a leg of it prefented itfelf to view in the vagina before the operation.

By comparing the time and the diftancc of Charlemont from Armagh, 2s mentioned in the latt part of Dr. King's letter, with Mr. Stewart's, it proo bably muti be the famc woman's cafe which both of them rclate.

## $N U M B . \quad I I . \quad C A S E I T$.

THE Cafarian operation performed by Mr. Smith, furgeon, in Edinn burgh, communicated to ine, and inclofed in the following Jetter by Dr. Adam Auftin:-Sir, Inclofed I fend you the cafc of the woman that underwent the Cafarian operation. The only remarkable circuinflance In it is, that the impregnated uterus may be cut without any confiderable hamorrhage ; but it is fuch a dangerous operation, that it ought ncver to be performed if there is the lealt probability of bringing away the child in any fhape. I was prefent when Mr. Sinith performed the opcration, and recollect the fudden contraction of the uterus, which I fuppofe prevented she hemorrlage.

Youx's, A. A.

I was fent for to a drummer's wife about ten at night, who had been in labour for fix days. She was one of the leaft women I ever faw, and prodigioufly deformed. I touched her, and found fonnething in the vagina fo large, that I at firt took it for the head of the child ; but foon found I was miltakicn; for examining more attentively, I found toward the os pubis the os uteri thick, high, and a very little dilated, and through it I felt diftinctly the child's head. What I at firlt took for it proved to be the os coccygis of a very extraordinary fize and fhape, turned inward quite acrofs the vagina, and reaching almoft to the fore part of it. About an inch and a half, or two inches above the extremity of the os coccygis, I felt the offa pubis, not forming a convexity outward, as they do in a natural ftate; but were depreffed inward, fo that I could fcarce get up two fingers betwixt this monftrous os coccegis and the offa pubis. The woman being muck fatigucd with pains and want of fleep, I ordered an opium pill to procuro reft. I vifited her next morning, and found fhe had flept fomc hours; but after fhe awaked, fhe had had violent pains.- Upon touching, I found the os uteri a little more dilated, fo that I could feel about the breadth of half-a-crown of the child's head.--The conftriction of the parts was fuch, that it was impoffible to deliver her in any manner; I therefore endeavoured, with all my Itrength, to prefs downward and backward the ns coccygis; but in vain. I then told the women that were about her that it was impoffible to deliver her; they begged of me to try any method however defperate. One of them propofed a crotchet; but the paffage between the bones of the pelvis was fo narrow and fo crooked, that it feemed to me abfolutely impoffible to kring away a child in any fhape through them. I promifed to pay another vifit foon, and to bring fome of my brcthren along with me, and to give herall the affiftance wc could. Accordingly feveral of my brethren vifited the patient along with me, viz. Dr. John Lermont, Mr. Drummond, fur.. geon and man-midwife, \&-c. who were unanimoufly of opinion that the child could never be brought through the vagina, and that the only chance fhe had for life, and even that a very fmall onc, was to undergo the Cæfarian fection. 'This was told the woman and her friends; and to prevent any reflcctions afterward, we rcpeated in the ftrongeft terms, the great danger the woman would run in the operation, and that poflibly fhe might die in our hands; but they were refolved to run all rikks.-Accordingly ten at night was appointed for the operation. The following gentlemen were prefent; Dr. Monro, profeffor of anatomy, Dr. John Lermont, Dr. James Dundas, Mr. Drummond, Mr. Oßburn, Mr. Gibfon, Mr. Douglas, furgeons.

The inftruments and drefings as follow:-1. A common fcalpel. 2. A pair of crooked fciffars. 3. Two necdles threaded. 4. Four large needles threaded for the galtroraphia. 5. Scraped lint. 6. A large comprefs, napkin, and Scapulary. 7. Ink. 8. A cordial to be given during the operation.

The patient was laid on her back on a table covered with blankets, with a pillow below her head. Her hody bcing fecured, I feated myfelf at her right fide. I drew a line with ink ahout fix inches in length, parallel so the linea allia, and four inches difant from it, in order to avoid cutting the mulculus rectus. I then with a convex fealpel made an incifion along the black line, through the teguments and fat. In the middle of the fection I gently cut through the mufcles and peritonæum, fo as to get in the forefinger of the left-hand; upon which, with the crooked feiffars, I enlarged the wound upward and downward, equal to the blacl: dine I had mate in
the finin. The epigaftric artery was opened, which I inmediately fitched. I then cut into the userus, and tore the membranes containing the child; but as the child was large, I found the incifion in the abdomen too fmall; I was obliged to enlarge it upward to the fhort ribs, and downward to the offa pubis, the uterus in proportion. I then extracted the child without any violence, afterward the placenta and the membranes. I put my hand again into the uterus and brought away fone coagulated blood. The child was dead but quite freith: I reduced a littlc of the gut that canie down, and made the gaftroraphia at thrce fitches without any peg. After the firft fitch the gut gave me no more trouble. I covered the wound with foft pledgets, applied a large comprefs, and over all the rapkin and fcapulary.

The poor woman bore the operation with great couriagés After the was. put to bed fhe took a quieting draught with laudanium; and a bottle of emulfion for ordinary drink. She did not lofe above four or five ounces of blood during the operation. In the night the bled a little, but it ftopped hefore I got to her; fhe had not flcpe, but otherwife was tolerably well. Next day I vifited her; fhe tald me fhe had fome flumbers in the morning. About $120^{\prime}$ clock fhe complained of ficknefs at her ftomacho with an inclination to vomit; her pulfe was then very frequent and fmall. She gradually grew weaker and wcaker, and died about four in the afternoon. There came not away above two tea fpoonfuls of blood from the vagina; the utcrus was at leaft one inch and a half thick. Her friends would not allow her body to be opcried.

In the Memoirs of the Academy of Surgens, at Paris, which are now tranlated, and publifhed by Mr. Neal, furgeon, of the London hofpital, there are a great many cafes, and alfo the difputes for and againft performing the Cæfarian operation on women when alive.

> CBOLLECTIONXL

## Of laceration.

[Vide Pa:t i: Book iv. Chap. i. Secto i.]

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N & U & M & B . & J: & C & A & S & E & I .
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IW A S called by the friends of a young woman in Park-Street, who had becn delivered of her firft child by her aunt, who was a midwife in the country at fome diftarice. The fifth day after delivery, the nurfe had alarmed the young creature and friends, by telling them that the was tote. 1 examined and found that the fronum labiorum was rent, but not the fphincter ani. They were all exclaiming againtt the midwife. I told them that fuch things would fometimes happen evcin to the beft practitioners, that there was no danger, and that the parts wiculd recover and contract. The great anxiety of the patient was on account of her hurband, who was then abroad ; the fcared that this misfortune would cool his affection. I made her eaficr, by afiuring her, that if fhe kept the fecret, he would know nothing of the matter. I have indced had cafes, though feldom, in which this accident has happencd; and from knowing that it commonly occafioned great anxicty to the patient, I fpoke privately to the nurfe, as in the following cafe.-

## $C A S$ E $I$.

IATTENDED an elderly woman of her frift child ; the head was large, the perinæum was largely ftretched and very thin. I held the flat of iny hand againft it during every pain, to prevent laceration by the head coming out too fuddenly. The pains were very ftrong; and when one was over, I withdrew iny hand to get fome pomatum to lubricate the parts. In this interval a pain coming on fooner than I expected, and before I could introduce my hand to guard the parts, the head was delivered, and the parts were toren, as in the former cafe. I told the nurfe the misfortune, but defired her not to mention it, becaufe it would make the patient uncafy, and give her (the nurfe) much trouble. I affured her the parts would recover, and no bad confequence enfee.

I was defired by 1)r. Simpfon, in Spital Square, to vilit a woman whom another practitioner had delivered, and where he had ftitched the perinxum after it had been rent in labour. The pain and inflammation were very great, and the ftitches did not feem to be of any fervice. I therefore advifed to take them out; the patient was eafier, the inflammation abateds ald the parts recovered.

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C A B S E A 1 I I, I V \text { and } V \text {. }
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IW As called by a midwife to a woman on the fffteenth day after delivery. The perinæum, vagina, and rectum, were toren into one about the length of two inches, which prevented the retention of the feces. The edges of the lacerated parts were beginning to fkin over. I attempted witli fciliars to pare the edges, as in the hare-lip, but could not pofibly hold the parts fo as to effect this purpofe. I then armed a laneet, and with the point fearified them, and with great difficulty made two deep flitches through the vagina and rectum, and two in the perinxum; but in two days this brought on a large inflammation, and the flitehes all tore out. The parts digefted and fikined over, but did not cement or join together ; however, they contrakted in fuch a manner, that in three months after, fhe could retain her excrements.

I attended in two days at different times, where the labours had both been tedious from large children. The external parts were much inflamed, and mortified floughs were difcharged from the vagina; after which the urine followed involuntarily into the vagina. On examining, I found a paffage from the bladder into the former. They both had made water freely for fcreral days before 1 was called, fo that I was certain the openings into the vagina proceeded from one of the mortified floughs cafting of from the parts. I tried in the firt to make a future to bring on an inflammation, fo as to contract the opening, but could not fucceed; and they continued in that iniferable fituation.

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G A S E V I .
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IWAS called by Dr. Thomfon, in Camberwell, to afite him in delivering a woman where the arm of the child prefented. He told me that the woman had leen fo toren in a former delivery, that fhe could with dificulty retain her excrements. Some time after her recovery, we exa ined the parts, and advifed with others, but found it was impofible to pare the parts fo as to get them to unite with the future. Befides, the vagina and rectum, where the lageration ended, felt fo thin that they could
net join at that part. One of ney pupils told me he had fueceeded in a cafe where only the perinxum was torn, by making immediately the twifted future, as in the hare-lip; howevcr, as rents of the perineum only are of little confequence, I never tried that method, imagining it dangerous to expofe the woman fo foon after delivery; and where the ragina and rectum are toren into one, it is imponible to ufe the twifted future. This laft cafe is of more confequence, on account of the involuntary difcharge of the feces; though in time the parts by degrees recover in fome meafure their retentive faculties.

## $C A S E S$ VII. and VIII.

AWOMAN, from a diftorted pelvis, had loft her child in a former labour, and was in labour of the fecond, which proved tedious alfo. I was e lled, and juft as the lead was delivered, entered the room; but as the child ftuck at the flouldcrs, I delivered the body in a fuccecding pain. On introducing my hand into the vagina, I was furprized to find part of it toren from the right fide of the os uteri, about three fingers breadth. The placenta foon followed, after which I again examined, and was certain of the laceration, only the rent felt fmaller, and the os uteri was a lirtle toren alfo on that ficle. 'This being at fome diftance in the country, I defired fhe would ftir as little as porfble. I was afraid of the wortt from the laceration of thefe parts. The child was dcad, but the woman recovered without any bad fymptoms. I delivered her afterward of another, which was - fmall and alive; and I found a large gap or chafm at the fide of the os uteri. I hare had fome others, in which I have been fenfible of the os uteri having been rent, but never found it of bad confequence, unlefs the patient was thrown into a fever by bad management, or other dangerous fymptoms. Thefe might bring on a mortification fooner in the uterus, by the inflammation at that part in confequence of the rent. I muft cxcept, however, cafes $\dot{x}$. and xvi. of col, xxxy...Vide alfo col. exxi. cafe xxiiii. col. xxxiii. No. ii. cafe ix.

A woman about 40, was in labour of her firt child. She had been ricketty when a child, and for feveral years was troubled with an afthma, and had recovcred two or three times of an anafarca, that affected all the membrana cellulofa on the furface of her body. When I was called to her in labour, the dropfical fwelling prevailed to a greater degree than formerly. She had been feveral day's in labour; the membranes wcre not broken, and no waters could be felt ; the head prefented, and was fqueezed down into a very narrow pelvis. She was muels funk, and her pains diminifhed. During the time when the pains were ftrongef, fhe felt as if fomething in her boclly had torer or given way on a fudden, and as if her belly was grown flatter, and Icfs ftretched. The pelvis was fo narrow, that there was a neceffity to deliser loy opening the head, and extracting the child with a crotehet, as directed above. On introciucing the hand to deliver tise placenta, the uterus was found toren at the fundus, and the inteftines puflied down. The plecenta was cautioufly delivered, and the intefincs returned. The uterus felt lax ; there was ne great flooding. In odder to avoid refections, this accident was kept fecret. The toren part was folarge an to admit the hand to pafs it. She feemed perfectly tree from pain, but very weak, had no vomitings, convulfions, or flooding, but died ten or twelve hours after.


AB OUT two months ago, I was called to a poor woman who had been in travel for eight days. When I came, the midwife, a perfeet goddefs with the good women, had left the unhappy woman with this expreffion, "That the had no travel-pains, and would not be delivered before the had more pains." But when I came, I found her ịn the loweft condition a woman could be in and alive; for I could not perceive any pulfation of her arteries. Nuch againft my inclination, I was perfuaded by fome of her friends, and after examination found the os tincz fo much dilated, as to admit four of my fingers. I found likewife the chin of the foctus prefenting, and refting on the os pubis of the mother. The waters were voided long before. I immediately endeavourcd to grafp one of its legs, which I found, and foon delivered the woman of a dead child; but when I again introduced my hand into the uterus, to my great trouble, I found the in'eftines. She had been frightened the day fhe was firf taken in labour. According to your prudent advicc, I fpoke nothing of the matter, but pronounced her a dead woman, and the accordingly expired in lefs than fix hours after:

Lamotte, bopk iv. chap. $v$. gives two cafes, in which the uterus was toren by the violence of the pains. One woman lived three days after, and the other four. In one of them, when opened, the rent part where the child had paffed through, was fo contracted as juft to admit the end of the little finger. - In the Memoirs of the Academy of Sciences, H. 172 4 , P. 36-52, are cafes of lacerations of the womb in delivery.-Mariceau, in obfervation 577, gives an account of a little woman who he faw two months after She was delivered, who had an involuntary difcharge of urine from a long and tecdious labour, which occafioned a fuppuration in the vagina and bladder. From this a fiftula remained, and through it the urine paffed. He gives two more cafes of the fame kind.-Kide Lamotte, book v. chap. ve on contufions and lacerations.

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Inflammations of the pudenda, \&c.

AWOMAN complained, after the third day, of a pain and hardnefs in the right labia pudendi. On examining and enquiry, I found the fwelling and pain began to be perceived only the night before. I ordered flupes to be applied, wrung out of a decoction of emollient herbs, and to be repeated frequently, and in the intervals directed them to anoint the parts with ungt. fambuci, by which method the fwelling fubfided, the pain abated, and in four or five glays difappeared entircly.

The day after a fevere and tedious labour, the external parts of a woman in her firf child, were fo exceffively fwclled, that fie could neither make water nor go to ftnol, although the had an inclination, and had tried frcquently. 1 prefrribed the fame mothod as above; only inflead of the cmpllient ointment, I advifed a large pultice of bread and milk to be applied and renewed after every ftuping. Next day the fwelling was fo abated, that the patient made water freely, and went to flool; and the whole complaint, by the continuance of chofe applications, went off by degrees, fo that the woman recovercd, - Vide collect. xiv, No. iij. cafe iii,

I was called by a midwife to a woman the fifth day after delivery. The labour had been tedious and fevere, occafioned by a large child; the external parts were very much fwelled and livid; the pain from the inflammation had been very great, but was then a little abated; a circumfance which made me afraid that fhe was in danger of a mortification: however, I was in hopes, from her having had a plentiful difcharge of the lochia, whick ftill continued, that the uterus was not affected. She had alfo made water feveral times, although with difficulty; but had no ftool. After fhe was relieved by a clyfter, 1 ordered a fomentation of the emollient herbs with fome fnirits of vine and fal ammoniac, with which the parts were frequently fuped and fomented. An emollient cataplafm of bread and milk was applied; afrer every fomentation the fwelling and pains abated more and moreAbout the ninth day feveral mortified floughs caft off, both from the labia and vagina. The cataplafms were continued, and a large duffil dipped in digeftive, and kept in the vagina, to prevent contractions or coalitionsu The parts recovered.

## $C A S E S I V . V$ and VI.

## Inflammations of the uterus and neighbouring parts.

BEING called to a woman on the third day after delivery of her firt child, and finding that the complained of much pain and hardnefs above the pubes, I examined the abdomen with the hand below the bed-clothes, and found the fubftance of the fame harder and larger than it ufually feit. I was certain that it could not be from any diftention of the vefica urinaria, becaufe fhe had made water frequently. I was told that the labour was long and tedious; that fhe had in time of it preffed her belly againft the lid of a high cheft ; that the complained of the pain immediately after delivery, and was in torment ever fince. I was much furprized to find, that although the pain had prevented fleep, yet there had been and fill was a plentiful difcharge, and but little fever. I imagincd that the complaint proceeded from the external parts that had fuffered from a contufion, by the imprudent forcing them againft fo hard a fubftance; her pulfe being a little quick, fhe was bled in the arm to the amount of avout fix ounccs. An emollient clyfter gave her a plentiful ftool; the abdomen was fluped or fomented with milk, water, and a little brandy ; and a pultice of frefh cow-dung, foftened with frefh butter, was laid all over the abdomen. Thefe were the unly remodics then to be had. I gave her ten grains of the pil. Matthei: fhe had a pretty good night ; but when the effect of the opiate was over, the pains returned in the morning. The abdomen was again fuped with a decoction of the emollient herbs, and a cataplafin of loaf-bread applied, as the fmell of the former was difagrecable to the patient. Thcfe applications were repcated twice a day; and in two days more the pain, tenfion, and hardnefs abated, and the patient recovered.
I was called to a woman on the fifth day after delivery. She told me, that the midwife gave her great pain in tearing (as fhe called it) the placenta from her right fide ; and that fhe had fent for me to examine a fwellinet there, which the felt with her hand. She was a lean woman: I felt the utcrus contracied like a round ball; but on the right fidc a fubftanece about the fize of a goote-egg; from this proceeded a round and long fubfance about the: thickncefs of two fingers, which ended at the groin of that ficte; the examination of thefe particulars gave her great pain. Much the fame कnethod was ufid to this woman as in the former calc, viz. venefection,
elyfters, fomentations, and emollient cataplafms; befides proper management as to the fix nonmaturals, and keeping her in breating fweats. The fwelling on the right fide diminithed; but fhe was not free from pain till after the twentieth day.

A gentlewman in her fecond child had been delivered by a male practitioner, who gave her great pain in deliveriag the placenta; and this has continued nore or lefsever fince. I was Lefpoke to attend her in her next labour, when fhe had an eafy time; the piacenta came down of itfelf; but in arder to futtisly her and my felf, I introduced my hand into the uterus to examine. I found all found on the infide : nothing of any kind of tunour, hardnefs, or unequal esntration to account for the violent pains the fomerly complained of. By proper care and managenent the recovered, and was free of former pain for four weeks, which afforded great hopes of a perfect cure; but it afterwards returned with as great violence as before 1 hare delivered hor three times fince, and her labours have been fare and eafy. She was aways free from the pains for three or four weeks after. It i. alfo remarkable, thar fhe was always eafier when with chitid; from which circumtance her huband ufed to alledge that he was the beft rictor.-The pains were monly on the right fide toward the groin, bue they extended quite rount her back and loins. The principal phyticians in london were confulted frowime to time; and fhe tricd many different semenes; including the cold and bot baths, with all kinds of anodynes and evacuations; but he was not in the leaft relieved, neither could any of the profefion find out the caufe of the excrueinting fains; which in gratai paficd for a nervous rheumatim. Finding her free from thefe pains after delivery wheia fhe kept in hed, and lefore fhe went abroad, I atier the next delivery kept lee longer in bed, and in breathing fiveats; hut nowithanding this camton, the paias returned and did not abate their violence till the was again with child.

## $C \quad A \quad S \quad E \quad$ V゙II.

A violert influnsmation of ibe utcrus, en impoforume forming, and difibarged at the nawer.

IW AS called to Mrs, S_-, in Holhourn, who came on purpofe from the country to be delivered of ber firf child. The child prefented fair, yet the was in strong labou: for five or fix hours: the night was cold, and fhe over-reached and ftrained herfelf too much, by hanging on women's foulders and backs of ehairs, and was at the latter end quite mmanageable. Slie would not go to led when it was nec:-fary ; but tumWhed atout the floor. At laft the was fallely celivered of the chitd and fecundines; the bed was in a large clofet with no fire-place in it. She was nuch beter next day than I expeted; lut complained of $\}$ ains in her haek, arms, and latuches, fiom lef over-fiaming the fe parts in time of labour. Her murfe being taken ill, could not attend her fo much as was neceffary; fo that fie caught more cold, ard the peripiratien fopped. She was attacked on the dird day with ichent pains in tor belly, and had no a pearance of nith in ter beafs: in econfequence of her tathing a fudorifie and ofiate, fic ofled bether, fuented muh, and was cafer next day. The difcharge of he lochia was in fificiert quantity; lut ber pulfe was low find quick. 'I lee lains reluncé at nighs; fhe had little reff, and did not incat.

On the firft day a hardnefs and fwelling had been pereeived above the os pubis，and the pain incerafed．I orderd elet．mithridat．Oj．to be taken every eight hours，with the following draught：-B ．aq．cimamom 3 ifs． Cinnamom，vinos． 3 fs．Tinct．cator，fo．cor．curvi，a gro xxx．Syr．croci。 Sts．I alfo preferiod a paregric draught to be takea at night．Rx．AF alexiter．fimp．$\overline{3}$ ifs．Nucis Nufchat．vinos． 3 ij ．Ting．paregor．gt．xxx。 Syr．e meconio． $3^{\text {fs }}$ ．She had no drought；her pulfe was low，and tho was naturally of a lay habit of body；the refted better and bad plentiful fweats；but the bochia had a bad finill，and Ifufpeted that a gangrene was herinning．I ordered her belly to be fomented with bladders，fille half full of water，as hot as fhe could endure it．The bolufes and draughts were continued；her pains and tenfion of the beliy diminifted；the dif－ charge of the loshia incereafed；as the had pains in her back；and w．is cotive，I ordered an emollient clyiter with 3 ij fal nitri in it，which gave her two motions．This relieved the pains conlderably；but on the fixth night they returned，and the fivelling and hardnefs inereafed on the left fide ats high as the navel．＇The pain was fo acute，that the took two of the pa－－ regoric draughts in two hours before the was relieved．This method was continued till the eighth day，when fhe was taken with a violent loufenefs． She feemed at firf relieved by the ftools of the fwolling and pain；but as they weakened her much，I was obliged to check them by ordering a 9 ． cinnam．limp．弓̌iv．Cinnam．vinos．${ }^{2} j$ ．Elect．e fcordio．弓fs．Syr．e meconio亏j．four fpoonfuls to be taken every two hours，or as there fhould be occa－ fion．Her common drink was rice－gruel，with red－wine，and the white decoation；the had the paregoric draught repeated at night ；the locfenefa twent off；fhe retted and fweated that night，and was tolerably eafy next day；but the fiwelling and hardnefs of the belly were not removed．She continued in this way to the twentieth day，being obliged to take the draught every night．She had frequent returns of the loofe ftools，abont tivo or three or four in a day；but when they recurred too frequent，the former mixtire was repeated，with the decolt．alb．She frequently took hartshorn jellies and troths，to keep up her ftrength．All this time the had no cold thiverings，aithough I fufpected from the feventh or eighth day that an impolhume was forming：but $I$ was in hopes，as there was a large difcharge of the lochia，of a reddina colour and good fmell，although it did not diminint with the loofe lituols，yet it might in time carry off the dif－ order．This，however，did not happen．An abifefs broke at the navel on the twenty－ninth day ；and a large quantity of matter was difcharged ；this telieved her of all her pains；butevery now and then，when the difcharge ftopped，the tumour and pains returned，and were relieved by the matter forcing its way afrefh，or dilating the opening．The difcharge continued feveral weeks；by which fhe was much weakene：l；but at late fhe recovered．

## C．A S E VIIT．

A$S$ thete are feldom inflammations in the uterus without ohfructions of the lochia，and foddom obfructions of the lochix．but there mut be more or lefs of an inflammation of the uterus，they might be joined to－ gether；but as I have plamed cafes to illut trate the firt Part，I fhall fo method fake give forme in this plaee，as well as in the other．
I was ealled to a wonan on the ninth day after delivery of her firt chitd． The labour had been tetious，but fafe；forthree days fie feemed to be in a good way；bat hat attendants imargining fle ought to be fupporte．t with
eordials, gave her punch for hor common drink. This threw her into a fever, and produced violent pains in the lower part of the abdomen. The lochia were obftructed, and the pains grew very weak. I was told on my arrival, that the pains had begun to abate, and the was much better.-I found her pulle quiek, low, and fmall. with an intermiffion now and then, the abdomen much tumified and hard; a fmall difcharge on the clothes of a brown colour and cadaverous fmell. All thefe bad fymptoms fhewed plainly that the was in imminent danger, and that the reafon of her pains zbating proceeded from a begun mortification of the uterus. The friends were much furprized when I told them of the hazard, for they imagined the was out of danger. In a few hours fhe was attacked with the fingultus, grew delirious, and died next morning.

As the cortex was not then known to be efficacious in mortifications, and indeed in this cafe, as proceeding from a violent inflammation, and not from wealknefs, I am afraid could have been of little fervice, I ordered fome warm medicines and fomentations, viz. firf warm fupes with the aromatic herbs, and a large epithem of theriac. vener. applied to the abdomen; and internally a mixture, four fpoonfuls to be taken frequently, of aq. pulegij, theriacalis, $\bar{a}$ jiij. Syr. croci. q. \{.

## COLLECTIONXLI.

[ Vide Part. i. Book iv. Chtap. i. Sect. ii. ]

## 

IAT TENDE D and delivered an officer's lady of her firt child. The labour was fafe and eafy; but I was furprized when I vifited her next day, to find her up and dreffed. I entreated her to undrefs and go to bed, that fhe might get into a breathing fiveat as foon as poffible; and I enIarged upon the bad confequences that would follow this mifconduct. She had heard at fecond hand from gentlemen in the army, of women delivered in the camp, and on a march, who nevcrthelefs rccovcred very well; and the declared, that as fhe was refolved to follow the camp, fhe defigned to ufe herfelf to that way of life. I told her, that although fome might efcape in cafes of extrcme necefity, yet many no doubt had fuffered on fucly occafions; and I obferved, that women ufed to hard labour, and the in. clemency of the weather, would fuffer lefs than thofe who were bred more delicately. About an hour after I left hcr, the was taken with violent pains in the abdomen, and a cold fhivering; on which the nurfe undreffed and put her to bed. She then gave her fome warm caudle, covered her with a heap of clothes, and fent for me. By the time I arrived fie was thrown into a plentiful fweat, and the pains had abated. I dcfired the nurfe, when the pains were entirely gone, to take off fome of the fuperfluous clothes; but to continue enough to keep her in a breathing fweat. This management of the nurfe prevented any bad accident, and the patient recovered very well; but was fo afraid, that I could fearce perfuade her, even after the ninth day, to get out of bed.

A foldicr's wife, told me that fhe was delivered of a child in a wood at Dettingen, in time of an engagenent; after which. The was carried in a cart with others, in a rainy night, feveral miles. By the cold and tatigue the was thrown into a fever, and became delirious for fome
days:
days; yet recovered, though with great difficulty. Vide colleetion $\times \times x i i i, N^{\circ}$ ii. cafe x .
In the beginning of my practice, I was fent for in a cold frofly night, to a poor woman at forne diftance in the country, who had been fafely. delivered. As fhe was excefively cold all the time of labour, from the badnefs of the houfe, the want of clothcs, and neceflaries of life, I gave her hufband fome money to go to an ale-lioufe at a mile ditance, and bring from thence fomething comfortable. I left dircetions with the midwife to get her warm as foon as poffible. The fellow got drunk, and did not return for feveral hours. I was told afterwand that the cold and fhivering continued, and the poor creature died next morning. Indeed, as there was little or no fuel for fire, both the midwife and I caught fevere colds; for it was a lone houfe, and at a diftance from any inghabited neighbourhood.

## $C A S E S I V$. and $V$. -The effects of bot air.

SOME years ago, when the fummer was uncommonly hot in London, I was called to a patient in labour. There was a fire in the room, which was fo hot and fuffocating, that the woman and attendants, and mye Self, were fcarcely able to breathe. I immediately ordesed the fire to be extinguifhed, the windows and door of the room to be fet wide open, and fome of the clothes to be taken off the bed. The ignorant nurfe had demanded a fire to warm the clothes or clouts, and put as many blankets on the bed as were ufed in cold weather. As fhe imagined warm and nourifhing things were beft, fhe had alfo mixed plenty of wine and ficicery in the caudle.- When I examined, I found the labour presty far advanced; but my patient was very hot, having a quick full pulfe, accompanied with a great drought. - Being afraid of the bad confequence of thefe violent fymptoms, I immediately ordered twelve ounces of blood to be taken from her arm ; and directed her to drink barley-water acidulated with juice of lemon. The fymptoms abated, and the was fafely delivered about an hour after my arrival. The difcharges being in a fufficient quantity, I ordered her to be kept quiet, and to drink plentifully of barley-water without the lemon. The room being now pretty cool, the window was thut, but the door left open. Next day, as it was ftill fcorching hot, I ordered a window toward the north to be kept open, forme mallows were firewed in the toom, and placed on the tables and drawers; flowers were fet in pots, and thefe were fprinkled every now and then with cold water. The pationt being ftill hot and dry, and the pulfe a little quick, I defired her to continue the barley-water for drink, and alfo to take between whiles fome water-gruel, with a very little white-wine, and toafted bread, for nourithment. By this method the fever was abated, and fhe recovered better than I expected - During the fame tract of hot weather, I attended feveral patients in labour; and the fame cautious methods being ufcd they all reco. vered. I remember, by way of precaution, I ordered each of them to lofe about fix or eight sunces of blood, to keep moderatcly cool, and take a light diet, more or lefs, according to thcir different confitutions; thefe meafures ferved alfo to prevent profufe fweats, fuch as happened in the following cafe.

## $C A S E$ IV.

WHEN I lived in the country, I was called to a woman on the fourth or fifth day after delivery of her firft child. The weather was hot; by which, and too hot a regimen, fhe was thrown into profufe. fweats. The difcharges had been in the ufual way for the firf two days; but now were entircly ftopped, and her breafts quite flaccid; both the milk and difcharges feeming to be carried off by the exceffive fiwcatirg. Her pulfe was low, and her firits wore much fank. I called in another gentleman in this uncommon cafc. We ordered fmall quantities of the fpir. mindereri, with nitrous medicines, and a nutritive diet. Her body and extremities were firmly compreffed with linen waiftcoats and rollers; but all was to no purpofe; the at laft grew comatofe about the ninth day, and expired.

## $N U M B . \quad$ II. $C A S E S I$ and $I I_{0}$

With refpect to cating and drinking.

IT is really furprizing to fee the follies of ignorant midwives and nurfes in their opinion about eating and drinking ; from the excefs of which many poor womeh have lof their lives. I was called by one of the firtrate midwives, to fee a fhop-keeper's wifc whom fhe had delivered the night before. I found her pulfe quick; fhe had cnjoyed little or nor relt, and complaincd that fhe had an uneafinefs and load at her ftomach. The midwife told me that fhe had eat nothing but her chicken; and that was her ufual way with all her women, to fill up the emptinefs in her bowels, and keep the wind out of the ftomach. I found the patient was naturally of a delicate contitution; I faid nothing then, but ordered her to drink frequently a little barley-water inftead of ftrong caudle, and prefcribed an emollient clyfter, and thefe had the good effect to empty and affitt digeftion. I afterward argued privately with the midwife on the fubject ; and the was convinced, from what had happened, that the complaint proceeded froms the patient being forced to eat againft her inclination. I told the midwife, that the method might do with fome who had a good appetite; and indeed fome of my patients have complained of being exceffively hungry after delivery; and thefe I have allowed to eat more or lefs of a chicken, or of other food of eafy digeftion, and they were not the worfe; but to thofe who had no fuch craving, I found caudle and broth with bread were better, and fat eafier on the ftomach.

Errors are alfo frequently committed in the article of drink. Many midwives imagine, that women in labour, and after delivery, ought to have ftrong cordials to affift and fupport them; fuch as ftrong waters diftilled from fpices and fpirits, together with brandy and winc. I fhall give one fatal inftance of a cafe of this nature, which may be fufficient to deter midwives from fuch practices. Many years ago, I was called in the country to a friend of my wife's, who had been fafely delivercd about three days. When I arrived, they told me the had been irt a great fever, and had violent pains in the abdomen for two days; but that now fhe was much caficr. I rnquired particularly, and found that during labour, and ever fince, her drink had been moftly warm puncts, three partswater, and one of brandy. Siee had an intenfe heat on the fkin of her arm, her pulfe was weak, low, en? intermitting. The pains, from beiag vichent, were fuddenly abated, wilindced quite rone. [ then told her friends, that far from being betint. the was in the moof imminent hazard of her life; that there had been
a violent inflammation of the uterus, and that the painsabating on a fudden plainly indicated, that an incurable mortification was come on, and as her pulfe had begun to intermit, the would foon grow delirious, and die in a few hours. My prognoftic was verified, to the furprize of all prefent.

## $N U M B$. III. $C A S E S$ I. II. and III. Relating to Jicp and evatcling.

IT was formerly counted dangerous to allow women to fleep immediately after delivery; but for my part, I always found it of great fervice to keep them quict, as foon as they were placed right in bed. A patient whom I had delivered, aft'r a tedious labour, inclined to fleep; but the nurfe and attendants refolved to keep her awake, by reading old romantic fories, I told them that any danger from neeping, could only exilt when thcre was a violent flooding; but as that was not the prefent cafe, it was a pity to haulk her inclination. Howevcr, as they were fo much afraid, I promifed to flay by her with the nurfe. She accordingly flept found for two lours, and was much refrefhed when the awoke. I have had many fuch battles with the affiftants, but always found that the fooner the patient fell into a flecp, the better the recovered; and indeed, whenever they could not procure natural fleep, and their pulfe was not very quick, I always ordered an opiate.

I was called by an apothecary, to a patient who had been delivered the day before. She had got no reft, and complained of great pains in her bowels, which did not feem to be after-pains. It was her firt child. She had no ftoppage of urine, or fymptoms of a fevcr. She begged of me, if polfible, to relieve her; but at the fame time not to give her any preparation in which there was opium. I told the apothecary, that as the pains were fo violent, nothing elfe could relieve her. He faid that opiates did never agree with her in her former complaints, or make her lleep when reftlefs. I anfwered, that I wanted only to eafe the pain, and after that fhe would fleep of courfe, and that we muft deceive her. I ordered a draught with 30 drops of the tinct. thebaic. I called next morning, and found her free from pain. She had enjoyed good reft, and faid that the had been in Heaven ever fince fhe had taken the medicine. I have had many inftances of the fame kind, when opiatcs were adminifered properly, as mentioned in the latter end of part i. However, I have had alfo fome fow patients who were not in pain, but could not reft, and opiates did them no fervice, as in the following cafe:

I attended another apothecary's wifc in her firf child. She was every way fafe and caly after de livcry; but could not fleep. I ordered a gentle opiatc, which had no effect ; but inftcad of compofing, gave her a giddinefs, and prefented many fpectres to her imagination, particularly the witches in the tragedy of Macbeth. I then ordered a bolus of pulv. caftor. gr. v, and fal. vol. cor. ccrvi, gr. iij. to betaken and repeated occafionally. This had the defircd effect, by which the got good reft; and it was the only reme dy that procured flcep in her fucceeding deliverics.

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N \cup M B . \quad \text { IV. } \quad \text { C A SES I. II. and III. }
$$

Relating to motion and reft. - Vide No. i. fasc i. of this collcation.

AWOMAN of a healthy conftitution, who had been delivcred twice in the country, came to live with her fanily in London, when big with chidd. I was befpoke to attend her, and fhe was fafely delivered. I
vifited her the fecond and third day, and found every thing in a good way; but was furprized, when I called on the fourth, to find her up, and in her common drefs. She told me that fhe had fat up the évening and night before, and llayeci at cards, and was to dine with the family; that the had done the fame after her former labours, and recovered much better than th:ofe who lie in bed. I exclaimed againft that practice; 'and told her that, I had been called often to patients who had been thrown into violent complaints by getting up too foon; and I was afraid the might fuffer fooner or fatcr by being too forward. However, the perfifted in her old way, and recovered exceeding weli; 'but the next time I delivered her, the was on the fourth day taken with violent pains in the lower parts of the abdomen, which threw her into a violent fever. As I was engaged with another patient, I did not fee her till they fent for me on the fixth, when I found the pains and fever exceffive. She was immediatcly bled. Dr. Shaw was called, and we ordered draughts with the fal, abfinth. and fuc. limon. alfo the common emulfion with nitre. She grew delirious, the pain went off fuddenly on the feventh, and fhe died the fame night.-Vide No ii. cafe ii. of this collection.-One would be apt to imagine, that this fatal cataftrophe happened from her conftitution altering, and becoming more delicate by a city life.

A poor woinan in St.' Giles's was delivered by'Mrs. More, and fome of my pupils, who gave her fome money; which being foon fpent in gin with her goffips, fhe went out begging with her child on ihe fourth day after' delivery, was taken with violent pains and a fever that night, andid with great difficulty recovered by bleeding and antiphlogiftic medicines.

A poor woman of a frong contitution was delivered by us three times, and efcaped without any complaints, though the was out in the ftreet begging, with her child, and finging ballads on the fourth or fifth day, with a man's coat on her back.

I could give many inftances in which robuft women, and thofe who have been bred hardily, will recover furprizingly ; and alfo of fuch-as are-more delicately brought up, who, from a very fmall error in management, will be brought into great danger; but thefe are fufficient to illultrate what have publifhed in the firt part of this work on that fubject.

IWAS called by a midwife to a woman in the Hay-Market. The membranes had been broken many hours, and the heai prefented. She complained of great continued pain at the lower part of the abdomen, and it increafed in time of a labour-pain, which obliged her to reftrain the Jafi as much as pofible. After informing myfelf of every thing relating to the patient, I found the had made no water for many hours, from which cirt cumftance I concluded, that the foregoing pain muft proceed from too great a diftenfion of the vefica urinaria. I faid nothing to the woman, but bid ther take courage, and told her that I hoped foon to relieve her. As The lay on her fide, I tried to introduce the catheter under the clothes; ; but as tho fhrunk from me, I was obliged to take the affiftance of the light of a wax taper, and drew off a large quantity of water. The pain immediatcly went off, and the was delivered foon after. I have had feveral cafes of the fame kind, in which the women were relicyed in the fame manner. "Sometimes I could introduce the catheter without infpection; but if I found it not eafily performed, I chofe the former method, to prevent hurting and inflaming he urethra.

I was called to a little decripit patient, on the fifth day after delivery. The labour had been tedious, and fhe had paffed urine feveral times, but with fome difficulty. At latt it had fopped for about twelve hours, and she was in great pain. The catheter paffed with dificulty, from the parts being inflamed. She was relicved on the difcharge, but the obftruction returuing, I was obliged to repeat the opcration feveral times, and at laf there was a large difcharge of pus from the urethra. This reduced the fwelling, and carried off the preflure on the urethra, which obftructed the paffage of the urine.

I was called to a woman who had been, three hours before I came, delivered of her firt child. She complained of exceffive pain in the abdomen. I enquired of the patient if the had made water during labour, and the told me the had made great quantities. I examined the abdomen, and found there was not another child, and the nurfe told me that the placenta was all come off: I ordered an opiate, in hopes that it would relieve the pain, and called next morning. The patient was fill in great pain, and had got no reft all night. I then faid I was furprized that the complaint was fo obftinate, efpecially as the had paffed fo much water in time of the labour, and enquired if fhe had made any during that night. The midwife told me that fhe was certain the had made no water all the time of her labour, which was very tedious, and that fhe had paffed none fince. I then found the patient had miftaken the waters from the uterus for her urine; and that all thefe pains proceeded from the diftenlion of the bladder. I immediately drew off a large quantity. She faid in time of the operation, when not above a pint was drawn off, that now the was as if in Heaven, by being free from pain. I have had many fuch cafes, in which I was obliged to draw off the urine feveral times before the patient could make water ; but unlefs they were in great pain, I always waited to try what nature would do, fometimes to the third, or even to the fourth day, efpecially if they fweated much.

## $C$ A $S$ E IV.-Cofivenefs.

IT is a great happinefs, if patients are coftive hefore delivery, that the child's head, as it is preffed down to the lower part of the pelvis, forces down before it the hard excrements which are contained in the rectum, by which means the patient has a plentiful ftool. I have had many patients, however, who wanted relief about the fourth or fifth day after. This was eafily accomplifhed by laxative medicines, or fuppofitories and clyfters.-I was called to a woman who had heen without paffage from her delivery to the feventh day. She had great ftrainings, but to no purpofe. A clyfter was tried to be thrown up, but it could not pafs. A fuppofitory was ufed, without producing the defired effect. About four fpoonfuls of warmed oil were injecter, which brought off fome hard fæces: this gave soom fof another clyfter, which relieved the patient.

## $C \& A \quad E \quad V, V I$ and VII.-Purgings.

AWOMAN was dclivered all on a fudden in the feventh month. She was coftive, and the child paffed fo eafily, that fhe had no ftool at
dclivery. As fhe was next day unc:fy on that account, I defired the nuft to adry. As the was next day unc?fy on that account, I defired the nurfe
to adminifter a clyfter of water-gruel with a little oil; without my know ledge fhe had put in a large quantity of falt. This gave ber a paffage; but
at the fame time brought on a violent purging, which weakened her excef. fively; but at laft it was Ropped by repeated opiates.

I was called to another to whom a elyfter of the fame kird had been given foon after delivery, whieh brought on fuch a violent purging as exhaufted her ftrength, and earried her off in five or fix hours, notwithftanding all the common methods were ufed to relieve her.

A woman, about the $18^{\text {th }}$ or $20^{\text {th }}$ day after delifery, when the feemed sut of danger, was taken all on a fudden with a violent purging, which inmediately funk her very low; this was foon cheeked: but then her legs began to fwell. Her ftomaeh alfo naufeated all food. Being called to her afiftanee, I declared her in great danger; and advifed the friends to take the advice of a phyfieian, as it was not now my province to preferibe. D! Mead rifited her next day, and ordered medieines to invigorate the body, by quickening the circulation of the blood, and contrafting or ftrengthening the fibres of the bowels, fueh as eonfect. cardiaea. aq. einnam. \&c. Neverthelefs the langour continued, and the fwelling in her legs inereafed with violent pains in them. At laft the lower part of the belly and right fide fwelled exceffively; and fhe died about fix weeks after delivery. Vide col. xxxiii. No ii: cafe vii.-I could give more cafes of coftivenefs and purgings; but I refer the reader to the directions in part i.

## N UM B. VI. CASES I. and II. Paffions of the mind.

IATTENDED a patient the night a fire happened within a few houfes of the difafter. The labour went on exceedingly well, and we kept her from the knowledge of the aecident until we had taken meafures for her fafery, by having a chair in waiting, and a room prepared in a friend's houfe. At laft the noife alarming her, I told her the affair, and that it was ata diftunce; fre feemed fatisfied; yet the pains immediately ceafed. And although the fire was extinguifhed, yet the pains did not return till fome hours after, when the was foon delivered, and recovered tolerably well.

I was called by one of my old pupils, who with an old midwife was attending a patient pretty much advanced in years, in labour of a firft enild, Yeery thing was in a right "ay for a fafe delivery; but as the eafe was tedious and lingering, both the woman and her friends were impatient, and had fent for an old blundering pretender in the neighbourhoot, who told the patient, that fhe was in the utmoft danger, if the was not immediately delivered. He faid he hoped he could fave her life, but the child was dead already ; and he called in another midwife, who confirmed what he afferted. The woman's pains had been vigorous; but thefe difmal aecounts frightened her fo much, that when I arrived they were quite gone off. After converfing with the patient, we (all five) went to another room where the parties began to quarrel: I called the old bluttering practitioner afide, and told him my opinion, that the woman was in no danger; but by time and pas: tience I hoped would be fafely delivered. Nay, I threatened to have him called before the college if he infitted on any violent operation: then he quitted the houfe with his affociate. After this departure we had time to foothe and encourage the woman. As the had got little fleep we gave her a draught with 30 drops of the tinct, thebaic. and the midwife delivered her fafely next day.

## 更子 C O L E C T I O N XLII.

[Vide Part i. Book iii. Chap. i. Sect. iii. and iv.]

## NUMB. I. CASES I. II. and III.-Floodings:

IATTENDED a woman in a tedious labour, who was at laft fafely delivered. A large difcharge of blood followed the placenta, whicis did not abate as ufual ; but continued fo as to fink her fpirits, and endanger the patient's life. Her countenance turned pale; and her pulfe besame low. limmediately gave her 15 drops of liquid laudanum, and applied cloths dipped in vinegar to the pudenda. The difcharge diminifked; but continued to flow $r$ ther fafter than I judged was fafe ina her weak condition. I gave her five drops more in about half an hour after the firlt, which had the deffred effect, by throwing her into fleep, and reftraining the flooding. She recovered tolerably well. The next time fhe happened to be in labour, the was exceffively afraid of being in the fame condition, and begged I would order the fame medicine by way of prevention. When I found the labour pretty far advanced, and the os uteri dilated by the membranes, I gave her 20 drops of the laud liquid. and before the delivery fhe began to doze a little betwixt the pains. She was foon delivered, and had a moderate difcharge, which gradually abated. She afterwards fell into a found fleep, and recovered very well.- I have had many fuch cafes, in which I always found this method the molt fuccefsful, when called in time, and when the veffels were not too mush enuptied.

A woman whom I had fafely delivered, after a tedious labour, feemed to be in a good way, but of a weakly conflitution. In about an hour after they fent for me. I was told by the nurfe, that when moved to place her right in bed, Ghe was taken all on a fudden with a violent fiooding, fo that it ran over the bed to the floor. I ordercd cloths dipped in vinegar and water, wrung out, to be applied ; but while I was dropping fome tinct. thebaic. into a cup with wine and water (the draught not being yet come from the apothecary's) fhe fell into another fainting fit and expired. Such fatal accidents feldom happen, except in extreme weaknefs of conftitution, or from great floodings befure, and in time of delivery. I regretted that I had not given her an opiate in time of labour, which I have fince found from experienec to be the beft method, to fecure the patient from being atzacked by fuch fatal difcharges.
I was callcd by a gentleman, io affitt in a cafe whercin the patient was ir time of labour attacked with a flooding, occafioned by part of the placenta being detache.l from the uterus. He had given her repeated reftringent draughts, with five drops of tinct. thebaic. in each ; but as they had procured no inclination to flcep, I advifed him to give her a fimple draught with. tinct. thebaic. gt. xx. This foon had the defired effeet; fhe fept found between every pain, the flooding abated, and in a little tine fhe was fafely delivered. Vide Lamotte, book v. chap, iv.

## NUMB. II. CASES I. and II. -Relative to after-pains.

BEIN G called to a woman foon after dclivery, who was in great pain at intervals, and imagincd the had another child to bear, I cxamineti and fcit the os utcri contracted; the uterus indeed felt larger than common when I cxamined the abdomen, but not fo much as to indiuce one to believe it contained another foctus. The midwife and nurfe affired me that the placenta came off without any violence. L ordered a compofing mixture, placenta came off without any violence. Lordered a with
with 30 drops of the tinct. thebaic. one half to be given prefently, and the remainder by degrees, as there might be occafion to relicve the pains and procure reft. This was in the morning, and the weather was exceffively cold. I called again in the evening; fie was ftill in pain, but had dozed a little. She complained much of the coldnefs of her feet. I ordered hot bricks wrapped in flannel to be applied to the foles of her feet and the fmall of her back, which was affected with a chilnefs. I alfo defired the nurfe to put more clothes on the bed, and give her fome caudle as hot as the could drink it. She had taken all the mixture, and I did not chufe to order any more, being in hopes that this method would throw her into a plentiful fiveat, which would relax the fibres, and affift nature to difcharge the coagulated blood, or carry off the fpafms that might be the occafion of fuch violcnt after-pains. Next morning when'I vifited her, the nurfe told me; that foon after my directions were followed, the patient fcll into a profufe Fweat; a very large coagulum was difcharged', the pains went off, and the bad a good right's reft.

I attended a patient, whofe child and placenta were delivered expeditioufly and fafely with a few labour-pains; but foon after that fhe was attacked by fevere after-pains. I ordered a compofing mixture, as in the former cafe, to procure a breathing fweat as foon as poffible. She got fome reft, fell into a gentle diaphorefis, and fone fmall coagula were difcharged. When I repeated my vifit in the evening, the violence of the pains fill consinued; yet although fhe had not ficpt, the had undergone a gentle perfipiration, and her pulfe was become more moderatc. I then preferibed a fimple draught with tinct. thebaic. gt. xx. the pains abated in the night, but seturned in the morning, and grew more violent in the evening. The laft draught was again repeated, and adminiftered the night following. The pains went entircly off on the fifth day, without any more clots of blood being difcharged. Of thefe two cafes, the firt feems to have proceeded from coagulated blood, and the laft from periodical fpafms or irritations; for the common difcharges were in the ufual proportion. I have had many fuch cafes; but feldom any fo violent.

## 57] C OLLECTION XLII.

[Vide Part i. Book iv. Chap. i. Sect. v. and vi.]
$N \quad U \quad M \quad B . \quad J . \quad C \quad A \quad S E \quad I$.
The lochia objfructed in a zooman delivered by Mi. Mudge.
[Vide Collect. xviii. N ${ }^{\circ}$ vi. Cafe iii.]

HE ordered her, after delivery, to take fome of the nervous med cines. He was informed next morning, that fhe had none of the fits; but fhe feemed to be in a comatofe fate. She had taken the suedicines two or three times; but continued in much the fame way, till -toward cvening, when fhe grew more fenfible and fpoke. As the would not take caudle, he ordered mutton-broth. When he called next morning, he was told the had refted little all night, that the lochia had fopped, and the patient was delirious. He prefcribed a fotus for her belly, and $Э j$ j. of pulv. troch. de myrrh. About noon the delirium increafed, and her pulfe grew very high; he then bled her largely at the ankle, and applied a bliter to each leg. An emodlient clyfter was injected with the addition of 30 drops
of ol. fuccin. and he directed that the fhould fivallow a fight anodyne draught after the operation of the clyfter next morning. He found her quite infenfible. Her pulfe, ho:ivever, was more moderate ; fhe had no difelharge with the clyter, but had made water plentifuily. The blitters rofe well; but as there was not the lealt appearance of her lochia, he ordered her to take the func quantity of the troch. de ingro. with the former nerrous mixture, every eight hours. The abslomen all this tiare was unatrendel with tumour or induration, or any other fymptom that indicated the lealt tendency to inflammation. In the cvening fie feemed rather better, at night much mended, and fhe flept tolerably well. Next morning he found the fcver entirely gone off, though fhe ftill rambled in her difcourfe. In this way fhe continued near a fortnight, having no manner of fever, till at lat by imperccprible degrees the becaine more fenfible; but the difo:der left a pain in her head, which the did not lofe for fome time. He obferves; that the delivery was the only expedient for carrying off the convulfions, and that he had a cafe eight months after, wherein the lochia topped in about eight hours after delivery, without ever returning, although he ufed all the means he could contrive to bring back the difcharge, yet the fuppreffion was followed by no bad fymptoms of any kind.

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C A \cdot S E \quad I I .
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> Obfruation of the lochia, fromi Mr. Mudge, Plymout).-C. Collect. xxxvo Suppicmicnt to Ciaje xv.

$A^{1}$BOU T fix hours after delivery the lochia flopped; the pulfe was very quick, and the countenance florid; the pain and tention of the belly increrafed. She had fome difpofition to fiveat ; but could not be induced to keep her lands covered te encourage thi diaphutefis. He ordered ten ounces of blood to be taken; a fomeniation in a hog's bladder to be applied to the abdomen; an emollient clyfter to be injefed, and one ounce of ol amygd. to be taken once in fix hours; but all was to no pnrpofe ; the abdomen fwelled, the pulfe grew fmall and quick, the extremities cold 'and clammy, the uterus no doubt mortified, and the woman died in abone 30 days after delivery. She had, it feems; three weeks before edelivery, exerted her frength beyond meafure.

Mr. Mudge obferves, that he has :been ealled to twenty preternatural cafes among foor women, for crery four he has attended zinong perfons of higher rank; and thinks this difference may proceed from the poor being more liable to accidents in confquence of hard labour, and the various rilks they run.

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C A S E I I{ }^{C}
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Managoment of a patient after delivery. Brought from Collect. xxxiii. Cafe xvi,-Mr. Syres

wHEN I called (which was the third day after) I found het pulfe low and quick, attended 1 ith a great drought, her fkin dry and hot. She had the crening beforc takien one of the bolufes and draughts; had fopt little, and her numbers were much difturbed and broken. She complained that hor head was pained and giddy; a circumflatce, whichi, as the was fo weak, I imputed to the npiate, which was fearce half a grain. She told me that no kind of fecpy medicines ever agreed with fere 13
conftitutiont：I ordered her to be kept as quiet as poffible；to drink fre－ quently of barley－water to affuage her thirft，with now and then a little calt－ dle；and at the fame time prefcribed the following draughts to promote a diaphorefis，and a better difcharge of the lochia．-Rx pulv．contrayerv． $\mathrm{gr}_{8}$ xxv．Caftor．opt．falis fuccini， $\bar{a}$ gr：v，Aq．cinnamom．fimp．گij．Sacch。 \＆lb．q．f．f．hauft． 6 ，quaque hora fumend．

4．She had got better relt this night，and there was a larger difcharge of the lochia；but the pain of her head continued；fhe alfo complained of paint in the lower part of her belly，with difficulty in making watef；but on ex－ amining．I found her belly foft，no fwelling on the external parts，in the va－ gina，of the os internum．She had not fweated；and her kin was dry and hot，with a quick low pulfe as before：In thefe circumftances I thought proper to proceed in the middle way，neither to order any medicines to taife the fever too high or fink her too low．She was preferibed the follow－ ing：－R．fal．abfinth． 3 fs．Suc．limon．$\overline{3}$ fs．Aq．alexit．fimp．$\overline{3}$ ifs．Pulv． contrayerv．conp．Эfs．Sacch．alb． 3 fs．f．hauft．6；quaque hora fumend．－ Ex．aq．cinnanom．fimp．दुivfs．Alexit．fpirit．cum aceto．${ }_{3} \mathrm{j}$ ．Syr．cary－ oph．$\overline{3}$ fs．M．fumat．coch．ij．in languor．

5．The above were continued，and a cerate was ordered to foften and relax the hardnefs and pains of the breafts．－Px．\｛perm．ceti， 3 ij ．Ol．amygd． zij．Ceræ alb． $3^{2 j}$ ．Fiat cerat extend．fuper alut．mammis applicand．－ Her breafts were alfo fucked with glafs pipes，but would yield no milks All along flie got but little fleep；her fkin grew hot and dry；the had $z$ great drought，and drank plentifully of weak caudle and barley－water．She complained of pains in her ftomach and head；her pulfe was quick and very low．The lochia were moderate．As the was weak，and had a fuf－ ficient difcharge of blood at her delivery，I durit not venture to order bleeding，although fhe had a difficulty or oppreffion in breathing；neither would I venture to order opiates internally，but prefcribed the following： epithem ：－R．ol．caryoph． $3^{\text {fs．Theriac．androm．}}$ ijo M．Mro emp． segion．fomach．applicand．

6．Finding all the complaints increafed，and alfo the lochia much more diminifhed，I advifed callirg in more affiltance；when Dr．Wafic was fent for，who ordered the following：－Rx．pulv．e chel．cancr．gr．xv． Croc．pulv．gr．iv．Syr．balf．q．f．f．bol．hac nocte fumend．cum hauft． fequent，－A．．（perm．ceti，Эi．Solv．in vitell．ov．q．f．lac．ammon．elix．
 dem bolus mane cum hauftufequent．－ $\mathbb{1 k}$ ．fperm．ceti，Эi．in vitell．ov．fo－ lut．aq．alexiter．fimp．弓ifs．theriac．$z^{\mathrm{iij} .}$ Lac．ammon．fyr．balf． $\bar{a}$ 弓ij．M． f．hauft．

7．Her looks were wild，her fleep was difturbed；and fhe had all the fymptoms of a beginning delirium．－Mittr．fanguis e brachio ad $z^{3} \mathrm{ix}$ ． ftatim．Re．fperm．ceti， 3 fs．folut．in vitell．ov．q．f．ol．amygd．d．fyr．ex althæa， $\bar{a} 3^{\text {ij }}$ ．Sal prunell．$z^{\text {fs．A A A }}$ ． f．hauft．quarta quoq．hora fimend．－R．decoct．gum．arab．in aqua hor－ deat fac．Jtij．f．emulf．ex amygd．dul．\＆s fem． 4 ．frigid．fal prunell． 3 ifs． Syr．dialth．q．f．m．bibat pro potu tepefact．－She grew delirious，her ikin was dry with an intenfe heart，the pulfe quick and low，difficult refipiration， the lochia entircly obftructert，had fometimes violent pains at the os exter－ num，but no fweiling or hardncfs of the belly，or on thefe patts．

8．She had eooling clyfters injected，which operated；fuch as decoit． commun．pro，enem：zix．Sal．Glaub． $\bar{z} j$ ．Ol．oliv．亏iv．Syr．rofar．folut． ₹ifs．fo eqema fatiminjiciend．－The draughts and cmalions were conti－
nued；and the following were prefcribed：－R．fal．abfinth．Эj．Suc．limon． 3 fs．Aq．alexit．\＆．cum aceto， 3 fs．Simp．そifs．Pulv．e chel．cancro．Эj． Sal．prunell．gr．xiv．Syr．croci，ziij．f．hault． 6 ta quaq．hora fumend．ap－ pliceter veficator．inter fcapulas．

9．The delirium increafed with all the other fymptoms，and feemed now to be a nervous fever．There was no hardnefs or inflammation about the uterus or hypochondria；the draughts and emulfion were continued，and the following ordered ：－R．aq．alexit，finp．亏̌v．Alexit．fpir．弓ils．Tinct． valerian．volatil．jifs．Margarit．p．pt．Эi．Syr．balf．亏̌fs．f．julep．cap． coch． ij ，vel iij ，in languoribus．

10．She was now much weaker and infenfible，with a tremor of the ten－ dons；the fulv．contrayery．comp．was added to the draughts，－Re．pulv．e chel．c．comp．Эj．Sal fuccin，vel croc．à gr．iv．Confect．Raleigh．ヨifs．Syr． croc．q．f．f．bolus 6ta quaq．hora fumend．cum coch．iij．Julep．feq．－ Rx．aq．cinnam，alex．fimp． $\bar{a}$ ziij．Aq．n．m．弓iij．Sp．fal．vol．ol． 3 j．Mar－ garit．p．pt．Эij．Syr．croci， $\bar{j}$ fs．Cap．coch．iij．in languor．repet．ene－ ma．applicetur veficat．collo ad utrumque latus，fone aures ufque ad claviculos．

11．Blifters were applied to the arms，and the other cordial medicines continued，with the addition of the pectoral decoction．Two plafters as follows were applied to the feet：－Plantis pedum emp．ceph．etemp．vefici－ tor． $\bar{a}$ part．equal．She died on the twelfth day after delivery．

The above journal is inferted to fhow the formula of preferiptions ufed in fucheatraordinary cafes．But thofe medicines are not to be preferibed indifcriminately by young practitioners，without proper advice of the more experienced．

NUMB．II．CASES I．11．III．and IV．－Complaints frommilk．

APA TIENT after the delivery of her firft child attempted to fucklo the third day，but the child would not fix its mouth to the nipple． The nurfe told me the had no nipple．I examined，and could not obferve any thing but the feeming veftiges where they ought to have been．The woman confeffed，that when a young girl at boarding－fchool，fhe and her companions had imagined them to be warts，and pulled them off．She was obliged to give up the fuckling；but the breafts bcing turgid and painful，I ordered a pultice of bread and milk to be applied；and endea－ youred to procure a breathing fweat．Next day fhe was eafier；the had fweated exceffively；her breafts were fofter，and although the nipples were gone，the milk had run out，fo that the pulling off the nipples had not entirely obffructed the ducts．She complained of an itching and roughners abont her neck and arms；and on infpection，I found them to be of the miliary kind．She had got up，and the fweating was gone off． I ordered her to bed，and to drink fome of her caudle，and keep in a gentle breathing fiweat．About the feventh day the had three loofe ftools， which carried off the milk without having any bad effect．The next time I delivered her，the tried again to fuckle the child；which fixed fo effectu－ ally on the parts，that it aftually formed large well－haped nipples，and fhe nurfed that and two more．
I delivered a woman of her firt child，who tried to fuckle，but could not get the child to take the nipple；they were very fmall，and the child very weak．Her breafts grow hard，were fomented，and cataplafms ap． plied，She was kept in a gentle breathing fweat．A nurfe was procured
who had a fronger child, who fuckled the patient while the nurfe fuckled her child; by this method the breafts were gradually emptied, and fhe recovering, afterward fuckled her own child.

I attended another patient much in the fame condition; the fame method was ufed, but to 110 purpofe. One of the breafts ran out, but the other inflamed fo that an impoftunse was formed; this was opened, and difcharged fo great a collection of matter, that it weakened the patient, and threw her into a hectic fever, but fie recovered, by going into the country and drinking affes-milk.

Another woman had received a blow on one her breafts, a little before the was delivered, which oceafoned a fwelling and hardnefs. After delivery, the tried to fuckle, but could not in that breaft. Every method was tried to difcufs the tumified, glands, but to no purpofe. The frelling grew larger and harder, the inflammation increafec, and turned cancerous, and at lalt deftroyed the woman.

## C O L.LE C T I O N. XLIV.

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\begin{aligned}
& {[\text { Yide Part i. Book iv. Chap. i. Sect. vii. and viii.] }} \\
& C A S E \text {.-Of a prolaffus uaginic. }
\end{aligned}
$$

THIS misfortune happened to a woman foon after a tedious labour ; a round middle-fized peffary was introduced, and turned fo that the lower edge fefted at the lower and back part of the vagina, betwixt the os externum and fundament, while the upper cdge was fupported againft the infide of the os pubis; the mouth of the womb lay againft the lower edge of the round hole of the peffary; this kept up the uterus and vagina, and relieved the complaint. Two or three months after, fhe fell with shild; and when five months gone, the preffary was taken out, becaufe it was thought needlefs to keep it there any longer, efpecially as the uterus was fo large as to be fupported by the upper part of the pelvis. 'T he feffary, inftead of lyiug iu the fame poffion as when fint introduced, was found lying up along the back part of the vagina, which it kept up; and the mouth of the womb hung dewn on the fore part of the peflary. This circumfance gave the firf hint, that a peffary introduced, and laid in this pofition, was the beft method for keeping up the utcrus; for if the vagina is kept up, the uterus muft in confequence be kept up alfo. The upper part of the vagina is attached round the lips of the month of the womb; and as the uterus naturally finks down into the vagina, one great advantage to married women is, that this method does nor hinder them from colabiting with their hufbande. After the peffary was withdrawn, the prolapfus of the vagina relurned, and occafioned the former uneafinefs. It was again introduced, and laid up along the baek part of the vagina, as in the laft method, whieh kept up the vagina as before, until he fell in labour, and then it was fored out at the heginning of the pains. She was at laft fafely delivered. The vagina on the fore part, at the os pubis, was very lax, and came down before the head of the child; but by cautious management, it was kept up till the bead came along, and then it was flipped behind the fame. She recovered very well, and fuckled the child.

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C_{i} A \subseteq \quad \text { I.-Of a prolappus uteri. }
$$

AMiddle-aged woman had a prolapfus uteri. She had been formeriy delivered of a child or two at the full time, and after ihat mifcarica twice, about the third month cach. She ignin was pregnant; and
at the end of the fecond month, had a fimall difeharge of blood from the ragina. She was bled, and kept her bed feveral days, by which it was reftrained. The fame difeharge returised the third and fourth month; at firlt in 1 .rge quantity, but the laft very inconfiderable. Being called to her about the middle of the fourth month, 1 found her in violent pain. On exanining, I found the uterus pufhed entirely out of the os externum, bigger than a man's fift, oceafioned by a violent fit of coughing. The vagima felt as if it was about an inch protruded before the os internum ; and all the ragina appeared to be inflamed and fwelled. Iintroduced my finger at the protrufion of the contracted vagina, which was juft large enough to receive it a little way; but I could neither diftinguifh the os internum, or any fubltance contained in the uterus. It might have been the os internum opened, but of this I was uncertain : hence it feemed probable fhe was not with child. The prolapfus was reduced with fome difficulty; two days afte", a round middle-fized peffiry was introduced, and fixed up along the Back part of the vagina, fo as that the upper part of the vagina and os internum hung down before it. She had vefore this period, for two or three montis, a large difclarye to the appearance of the fluor albus, and the uteras had prolay.fed in that face three or four times; but being then fmaller, the coull eafly reduce it herfelf. It being uncertain whether the was with child ur not, it was retolved to order only a cooling regimen, with nome faline draught. and nitrous medicines, till the next period. By tuefe means the cough and difcharge of the Huor albus were removed; fhe feemed perfetly eafy, and was allowed to walk about in the houfe. At the end of the fourth month, fhe had, to appearance, a regular difcharge of the menfes; the mouth of the os internum felt fwelled and more thut, which made it almolt certain fhe was not with child. Beiny fent for about the middle of the feventh month, I found the had regular latour-pains; the os internum was fo npen, that the membanes, waters, and head of the fretus, were regularly feit, and there was no difcharge of blood. As the os intermm, tho:gh a little open, infead of being thin or foft, felt thick and hard, it was advifeable to orde: firt bleeding to the quantity of eight ounces, after that two emollient clyfters, which difcharged a large guant ty of fxeces, and then an anodyne draught was given of aq. cin. ten. \& fyr.e meconio.- The falt of wormwood draughts vere repeated with a cooling regimen, fuch as panadas, weak broths, emulfions with fal. nitri. and boiicd chicken. The pans weat off for 24 hours, after which they returned; the os intemum now felt much more open and foft; the membranes were pufhed down with the waters, and tic foctus was foon delivered; after which there was fome.difcharge of bloud. No violence was ufed to bring dway the fecundines. As the placenta feparated from the uterus, the dif.erge increafed, hut not to any large yuantity; and in three hours the fecurdincs weee fuecei through the of internum into the vagina. By pulling foftly at the funis, and at the edge of the placenta with two fingers, they were erfly cxtretied. She recovered very well. The child was very fmall, and rearec whth daficulty.

N": Dak: $\because$, of Birmingham, relates a cafe of a prolapfus uteri, which could not te reduced, but mortiscul. - He days "J was called to a woman who ga:e : ee the following accuunt of lier cafe; that affiting her lurband in lifting a vight that afternoon, the felt alump fail. out of he rbody. On which the fent for a n:ith. ife, who enecavoured to reftere it into its place; but not being ahte, advifed to fend forme. Up on examination, i found the uterus out of the os externum, about the fize of a large man's filt, and the glands creafed in fize, and after three wecks difeharged a thin ichor from its whole furfice, and in about fix weeks the patient died,:"-The fame gentleman requeited my opinion about extirpation by ligature, which he thought might have been eafily done, and which he propofed to the patient; but fhe would not fubmit to the operation. My anfwer was, that I could not refolve his queftion, as I never had any cafe in which it could not be reduced; but, no coubr, when a gangrenous aupcarance begins, and there is no hope of reduction, what he propofed fhould be attempted to fare the patient's life; but fuch operations thould have the concurring approbation of cxperienced furgeons; nor fhould it be undertaken but when the patient has ftrength, and the gangrene not advanced above the parts that are to be feparated.

## $C A S E \quad$ III.-Inverfions of the uterus,

MR. GIFFARD, in his cafes of midwifery, p. ${ }_{17}$ 6, mentions a delivery in which the utcrus was inverted, and drawn out beyond the labia pudendi, with the placenta adhering to it. -Mr. Chapman, p. 197, cafe 29, has a cafe alfo of the inverfion of the uterus.-Moni. Lamotte lii). 5, chap. 10, and It, defcribes an inverfion of the uterus and relaxation of the vagina, - I was called to a woman, who dicd before my arrival. Ifound the uterus inverted; pulled quite withont the external parts, and the placenta adhering firmly to the fundus. This misfortune was occafioned by the midwife pulling at the placenta with too great foree.

Mr. Lucas, of Puntefract, was called tc a woman jutt delivered of a live healthy child, and found the uterus totally inverted, lying between her thighs, of the fize of a large foot-tall. The pulfe was waks and unequal, and there was a continued pouring forth of blood from the veffels of the uterus, He apprized the friends of the great danger of fo deplorable a cafe. Neverthelefs, with the approbation of a judicious phyfician, he undettook and fucceeded in the rediction, a fterward gave her gentle anodyne and cordial medicines, and left her in appearance better, and iolerably eafy. In about half an hour he waṣ again called, and found her fpeechlefs, the pulfe imperccptible, clamm; fweats, refpiration deep and !low, and in a few minutes death clofed the fcene. All the parts were fo lax, that the uterus had not the power of contraction; for it was lying like a loofe piece of tripe, and taken for an cxcrefeence, till he examined it moreftrietly; and after feparating the placenta, reduced it into the abdomen.

## $C A S E S \quad V$, and VI-Prolapfus of the reatum.

THE hæmorrhoidal veffels of a woman werc much tumified, painful, and forced out to a large fize, in time of labour. After a pain was over I lubricated and forced them gently up within the fphifaer ani ; and kept them up with a chick comprefs with my hand applied agaiuft the part every pain; but when the head of the child was forcing down they were تgain protruded, with a large guantity of hard excrement; and it was impolible to reduce them till the child was dclivered, whon I again replaced them; but next morning, when fhe made water, they were again foreed
out; on which $I$ was fent for, and reduced them as before. As I expected this would happen every time the ftrained at ftool, or in making water, I directed the nurfe how to reduce them : Ahe accordingly affitted her occafionally in this manner, till near the end of the month, when the fwellings fubfided, and the complaint went off.

I was called to a woman in whom the child prefented wrong; but I delivered her with fafety. Next morning I found the patient in exceffive pain, which proceeded from the piles. When I examined, I found the lower part of the rectum palhed out, ard fo fivelled that I could not reduce the parts, though lubricated. I then ordefed a fomentation, compofed of the enollient herbs, in which were mixed fome vinegar and fpirit of wine. After the fomienting and ftuping, I again lubricated the parts with warm oil, and at tant got them reduced, though with a great dcal of force, and the patient tecovered without another prolapfe.

This cafe was a caution to me ever after, when the inteftine was fallen down, always to reduce it; and after delivery, or if I felt no fuch complaint in time of labour, to examine thefe parts. This patient had been in great pain all night, fo that the had all the fymptoms of a violent fever. However, as fhe had loft an extraordinary quantity of blood in the delivery, and was relieved of the pains which occafoned thefe fymptoms, the fever. zoated, and the recovered better than could have been expected.

## COLLECTION XLV.

[Vide Part i. Book ir. Chap. ii. Sect. i.]

## M U゙ M B. I. CA.SES I. II. III. and IV.-Impoftomeso

AC HILD being delivered after a very tedious labour, the head had been moulded into an oblong form; and on the apex or crowns there was a large tumour : this alarmed the mother. I ordered a comprefs, dipped in oil, vinegar, and fpirits, to be applied and renewed every time the child's head was dreffed, or chree times a day. On the third day, I found a fluctuation, and ordered a pultice of bread and milk; with a little oil in it, and to be renewed two or three times a day. The tumour fubfided, the fluctuation diminihed, and was quite gone about the feventh or eighth dav. I have had many fưch cafes, which wcre generally in 2 few days difcuffed much in the fame manner.

Another child, from the fame caufe, had a large tumour on the crown or apex : it had continued feveral diys; an emollient cataplafin had beer applied; it broke, and difcharged a large quantity of bloody ferum mixect with pus. The child was weak and low, and another tumour formed bee find the car, when I was cailed. The cataplafm was applied to that alfo; and as foon as there was a fluctuation felt, the tumour was opened with the lancet, which difcharged a thin pus; but the large difcharge of both reduecd the child fo lusw that it expired in a few days. - This was the only cafe that I have feen of this kind, and it made me careful afterwaris of fuch complaints, fo as cither to try to difcufs the tuniour, or prevent the extravafated fluids remaining too long uridifcharged.

A child, on whofe head a tumour of the fame kind as in cafe i . whis obferved after delivery. The fame methods were ufed; but the fluctuation did not diminifh, and the hairy foalp began to feel thinust. About the fixth
fixth day, I made a fmall opening with the point of the lancet on the bafis and back-part of the tumour, which difcharged about a fpoonful of a ferous fluid. The tumour fubfided. I applied a comprefs dipped in the mix= ture nentioned in cafe i. and by gentle preflure, the fcalp and parts below joined or confolidated to one another.

A cafe of this laft kind happened, where ore of the gentlemen that attended me was called. He felt a large fluctuation, on which pultices of bread and milk were applicd warm ; but this method not fucceeding, he had recourfe to me. I advifcd him to make the opening as in the foregoing cale, but to his great furprize, a large quantity of blood was difcharged. He applied a dry comprefs and bandage to reftrain the hæmorrhage; but it continued, and deftroyed the child in a fhort time.-In my practice, I never had occafion to open above three or four of thefe tumours, and the expedient always fucceeded; but this cafe rendered me more cautious in the fequel.-Vicle a cafe in which the anus was imperforated.

Mauriceau, in page 213, and obf. 237, mentions having feen a child that had a great tumour on the upper part of one of the parietal boncs, full of matter, which difcoloured the lkin ; and recommends (in order to prevent the abfcefs) comproffes of linen dipped in brandy, \&c.

## $N$ U M B. II. C A S ES I. and II.-Dilocation.

IDELIVERED a woman by turning the child, and extracting it by tlie feet.-Vide collcet. xxxiv. No. ii. cafe x, page 208. Both mother and child appeared in a good way. Some months after, the father told me his little daughter was a fine child, but could not move one of her arms. I found the fhoulder had been diflocated at the time of delivery. I tried feveral times to reduce it, but without fuccefs. This accidert was owing to my not examining after delivery, when the limb might with eafe have been reduced ; and was a caution to me ever after, and flould be to every one, to examine carefully every part of the child after fuch deliveries. This was the onls luxation that ever lappened to me in practice, where the child was alivc.

I delivered a child, the foles of whofe feet were turned inward. Mr. Sanxy, furgeon, was called, who contrived an effectual method, which reduced the inflections at the ankles fo well, as to enable the child to walk by bringing the foles of the feet to the natural pofition. His method was to bind down the foles of both feet with foft bandages, to one firm and ftraight or plain fole-picec of bend-leather, fo that one foot was a flay to the oiher.

## $N \cup M B$. III. $C A S E S$ I. II. III. and IV.- Fracturcs.

IN turning and delivering a fmall child by the feet, I found the bones of onc of the arms fnap afunder, though turned and delivered with great eafe, and in a flow cautious manner. Indeed I am perfuaded it happened principally from the finallnefs of the bone. I faid nothing, but wrapped the child up in its blanket, and laid it on the lap of one of the affitants, defiring her not to move it till I had got the woman laid right in bed. I then examined the arm, and told the nurfe it was a little hurt in the delivery, but would foon recover. As the child was poar of mufcular flefh, I only apptied a comprefs dipped in brandy and water, and with a fingle roller kept the ends of the bones together, which 1 found was fufficic:t at the time; and
to prevent fufpicion of a fracture, I held the arm during the dreffing. I dea fired the nurfe not to let it lie on that fide, nor undrefs the child till I was prefent. I renewed the dreffings as there was occafion, and the arm rea covered without the parents having any other fufpicion than of a ftrain in the delivery.

Mr. Neate, furgeon, of the London Hofpital, delivered a poor woman. The child prefented wrong, and in bringing down one of the legs, the thigh-bone was broke. He bound up the fracture, and by great care, and frequent attend noce, the limb recovered.

Mr. Web, of Nevis, went to deliver a poor woman. As the child prefented wrong, he brought down one leg, but as the child was very large, he could not deliver the bolly, or bring down the other lej, on which I came to his affiftance. In fearching for the leg that remained in the uterus, I found the thigh bent downward and broken. This I delivered with caution, and after that the body and head. He bound up the fracture, and was at grat pains to recover the limb, but by the mifmanagement of a drunken nurfe, the thigh inflaned, and the child died. Such things fometimes happen even to the beft and moft careful practitioners.

I was called to a labour in one of the lanes in St. Giles's, where the arm prefented. The room was crowded with pupils to the number of 28 . So many going in, had alarmed the lane; a great mob affembled, and began to exclaim that we were trying practices. On the fe accounts I deli ered the woman in a hurry. The child was alive. I left one of the eldeft pupil:, who found that one of the thighs was broken; he tied it up, and attended frequently ; but the child was lof by the careleffnefs of a drunken mother.

## NUMB.IV. CASES.I. II. and IIX.-Firfedrefings.

IDELIVERED a woman who had brought a nurfe from the country: Next morning I was told the child was very bad. I examined and found it groaning, with fcarce any pulfe, the extremities growing cold, and the countenance pale. I defired the nurfe to undrefs the child; and obferved it was bound and pinned exceedingly tight. I hayed till I faw it dreffed lonfe; and ordered a cordial mixture of aq. alexiter. fimp. $\mathrm{zij}_{\mathrm{ij}}$, Aq. alex. fpirituous, fyr. croci, $\bar{a} j \mathrm{j} j$. a little of this to be given frequently. Next morning, they told me that the child expired foon afier lleft the houfe.1 have been called feveral times, where Ifouni the uneafine's of the children proceeded from too tight dreffings ; and by obferving this circumftance in tinie, the danger was prevented by dreffing them loofer. Doctor Sands told ine he was called to a child of a relation of his own; and found it was fo tight bound that it could fcarcely breathe. The face was turning livid; and as there was no time to be loft, he ripi e.l open the clothes; and the child was foon relieved.
I was called to fee a child that heaved, and had an oppreffion at its breaft. The nurfe undreffed it, and the clothes did not feem tight, but the bandage on the navel appeared very tight. This ! ordered to be unrolled; and the child immed iately breathed with greater frechon, and din very well.

The following is from Dr. Gecrge Macaulay:-A midwife inade the ligature of the funis umbilicalis too near the child's belly. After feveral days it was fhown to me; the ligature was not made fo tight as to thop the cisculation entirely, but the part was fwelled and inflamed. I divided the ligature with a pair of feifars; the funis dropped off at the ufual place, the inflammation abated, the parss sentrasted, and the child had 3 good navel.

## C O L L E C T I O N XLVI.

## N U M B. J. CA S E I.-Imperforated anus.

[Vide Part i. Book iv. Chap. ii. Sect. ii.]

IDELIVERED a woman of her firft child; next day the nurfe told me the child had had no ftool, although the had given the oil and fyrup; and was afraid there was no paffage at the fundament, having tried to introduce a falk of parflcy and butter. I infpected the part, and lubricating my little finger, introduced it a little way into the anus; but plainly found a fmooth obftrustion about an inch or Iefs from the entry. I inforined the father of the danger the child was in. and adrifed him to fend for Mr. Gattaker, the furgeon of the family; he advifed, as the cafe was uncommon, to fend for Mr. Middlicton. They were of opinion with me, that it was right to try to make a perforation. For although the fuccefs was uncertain, yet if the attachmont was flight, it might fucceed. It was agreed to perform the operation with the trocar. Mr. Gattaker introducct the inftrument, and puthed the point and theath through the adhefion, ils a line, as ncar as he could judge, along the common courfe of the rcctum. No meconium appcared on withdrawing the inftrument. After this he insroduced a large bougie, which went up a great way. Wc, next morning, obferved fome meconium come down on extracting the bougie. Another fomewhat larger was agais introduced, and the child feemed to be in a fair way of doing wcil.

## CASESY. and 11I.-Children Gorn writhout cun anus.

MR. JAMIESON, furgeon, in Kelfo, delivered a woman of twins, one female, the other male; the latter had no appearance of an anus; that part being equally firm and folid from the coccyx to the ficrotum; lie told the grand-mother, it was preternatural, and that though he had twice feen the antrs covered by a mombrane, which was eafily cured, he could not promife to do the like in this; but if She pleafed, he would try to reach the gut by incifion, which fle, with the mother's confent, fondly agreed to. Whereapoin he made an incifion pretty deep in the moft reafonable part; then introduced his little finger to find the gut, but in wain. He afterward tried the trocar, bat nothing followed but blood; fo was obliged to leave the patient without profpect of help. The child died next day. Uponopening it, the recturn was cntircly wanting, and the colon a perfect inteftinum craun, fufperded loofely in the abdomen, and full of ineconium. From Med. rffays of Edimburgh, vol. iv. art. xxxii.
Mr. Pinkftan, furgeon, of London, delivered a woman of a female child. Next morning the norfe told him the child had had no itool, although fhe faw no fault at the fundament. On examining, and introducing a probe about half an inch, he met with a firm refiltance. He then told the mother the necelfity of performing an operation on the child; thougli not mithout expreffing fome doubt of fuccefs. Having obtained. confent, he cut about half an inch into the refilting fulftance ; and finding no faces follow, enlarged the external orifice, and went about half an inch decper. Nothing iffuing but a little blood, he introduced his finger, and found a refiftance that made him defpuir of fucceeling, and dreffed up the wound. The child had that night ftercoracious vomitings, that continued till its death, which happened on the fifth day. Being permitted to open the child, he found the refum callous and imparforate, as far as the latt
vertebra of the loins, which thowed the defeet was abfolutely incurable. In cales, however, of this kind, a cure fhould always be attempted.

## $C$ A S E IV.-Thbe uretbra imperforated.

MR. LUCAS, of Pontefract, in Yorkthire, the day after delivering a woman, undertood the child had never made water. Upon infpec. tion, he found the glans penis imperforated, and of a bad formation, with fcarce any prepucc, and no appearancc of the urethra. On this he made ans upening with a frnall lancet pretty deep along the penis, under the urethra, making crucial incifions; he ulfo tried to pafs a fmall probe, but all attcmpts were unfucceffful; a great hxmorrhage obliged him to defift; but in about twelve hours, the urine forced a paffage through the femi-divided fibres into the artificial urethra formed by the punetures of the lancet, and the child foon recovered. - Vide Lamotte, book $\mathrm{i}_{0}$ chap. $\times x x$. on imperfuration of the fundement and urethra.

## $N \cup M$ B. I. C A S E I. 11. and III.-Tonguc-zied.

$A$WOMAN whom I delivered, told me the child had got tivo tongues. I fufpected what was the matter, but faid nothing. When I examined, I found a large fwelling under the tongue, and the preffure had flattoned it to that appearance. To make the parents eafy, I ordered a mixsure with barley-water and mcl. rofarum, and to moiften the part now and then with a feather, and told them the appearance would vanifh in a few days; which prognottic ... as verified.-This fuelling was occafioned by my finger, which I was obliged to introduce into the inouth in delivering the head.
Cafes of the tongue being tied by a thin membrane, to the under part of the mouth, are common, and cafily afiifted. Thave only had two cafes in ali my pratiec that appeared dangerous.-A poor woman brought her child to me, and told me it was tongue-tied, and could not fuck. When I raifed it up, I perceived, inftead of a thin membrane, a very thick one, and fomething like an excrefcence formed below, to which the under-part of the iongte adhered. I endeavoured to divide it flowly with a lancet armed, but as it bled a great deal I defifted, having heard of fome fatal inftances of the kind, though at fecond-land only. I was uneafy at its bleeding fo much, as I had divided fo fmall a part, where no preffure, could be made. or any certain veffel taken up. I wiped it frequently with a linen rag; but it continued to blecel. I fent for fome pulv. ftypt. but recollected that girits of wine would contract frnall veffels, and immodiately dipped a feather in fome, and with it touched the divided veffels, which contracted in an inftant. I made the woman ftay fome time, but the firft touch was fufficient.

I bad been affured by a furgeon, that he had brought down fuch an excrefcence by touching it nows and then with !unar cauftic. I tried to fer lieve a child with that article, but there was fo much moilture from the faliva in the mouth, that the cauftic was diffolved, and affected the adjacent parts. I therefore difcontinued it, as it did not remove the impediment.

## C OLLECTION XLVII.

NUNB. I. CASES 1. II. and III.-Mould-ßot beads and converfions.
[Vide Part i. Eook iv. Chap. ii. Seet. iii.]

IWAS fent for to a child, who immediately after delivery was throw ${ }^{n}$ into convalive fits. The labour had been tedious, the child large, and the head compreffed into a longifh form. I tried with the palms of my hands to mould it into a globular fhape, but to no purpofe. I took about two ounces of blood from the neck, and ordered a finall blifer betwixt the fhoulders. It had no return of convulions after bleeding, and grew a ftrong healthy child. The head gradually expanded, and recuvered a better form.

I delivered a woman whofe child was large, the pelvis fmall, and the head of a very long thape; one parietal bone was rqucezed over the other, and the occipital bore forced more back. The child, who cried ftrongly at firf, was immediately after thrown into a convulive fit. I tried to mould the bones into their proper form, but could not. The funisumbilicalis not being yet triêd, I cut it, and allowed it to bleed about four fpoonfuls. The child recovered. I ordered a blifter, and three grains of rhubarb, to purge off the meconium. This method anfwered fo well, that when the head was much fqueezed, I commonly allowed a little blood to flow from the funis, before tying it tight. Some midwives give the child thrce drops of blood from the funis, to prevent convulfions, which cuftom might arife from fome more knowing pragitioner, who took this method in deceiving them. on purpofe to let the navcl-ftring blced a latile.-Vide collect. xxxii. cafe xi.

I was called to a child in convulfions foon after delivery. It feemed to be in a dying condition. I cut the ligature of the funis, and fomented it with warm water, but it would not bleed. The mother was againtt bleeding with a lancet. Lordered lecches to the neck, and a blifer to the back: but hefore they could be applied, the infant expired.

No doubt it is right, when the head is fqueezed in the pelvis to a wrong shape, to try to reduce it, though I never fucceeded but once or twice at moft, and then I afcribed the fuccefs to the head not having been long retained in thic paffage.

## $N \cup M B$. II. C A S E S I. II. III. and IV.-Eruptions.

ACHILD, about three days after delivery, fruck out all over the body with fmall red eruptions, which, in London, the nurfcs call the redgucm; but in Scotland is termed the bives. As I found the child had got Tittle paffage, and had not fucked, I ordered threc grains of rhubarb; and if it did not operate in five or fix hours, to give three grains more; both dofes were given, which affited in difcharging a large quantity of meconium. On the fourth day the mother fuckled the child. The milk kept the belly fufficiently open, and, by degrees, carried of the complaint.

I was called to a child about eight days old (to be brought up by hand) who was broken out much the fame as the former. If was atfo reflefs, and cried much. It had not above four times faffage fince the delivery. I ordered five grains of rhubarb in a little thin pap, which gave the child two loole ftools, and relieved it of the colic pains, I cirected the nurfe to give frequently fome chicken-broth for nourifhnient, either by itfelf, or mixed with the pap; and if the child did not go to flool two or shree times a-day,
so diffolve half an ounce of manna in four fpoonfuls of water, and give abou ${ }^{\text {t }}$ a fpoonful as often as there fhould be occafion, to have the above effectThe nurfe had given oil of fuest almonds and fyrup of violets, without effect ; but the manna after the rhubarb, kept the body open, and the erupm tions, in a few days, were entirely gone.
I was called to a child about five days after delivery, which had been very well till that morning; when, finding it bound, the nurfe had given it fome decoction of fena and prunes, which had thrown it into a violent furging; and this had carried in all the red-gum. I ordered julep. e creta, $\overline{3} \mathrm{iij}$. with tinct. thebaic. gt. iij.; a fpoonful to be given prefently, and repeated after every loofe ftool. This fopped the purging, and the erupu tions refumed their red colour, and went off gradually.

I delivered a patient of a ftrong healthy boy. The mother was unable to fuckle, from an inflammation coming on the breaft. I. advifed the nurfe to keep the child's body open, which the neglected. I was fent for on the fixth day, when I found the child in a violent fever; there had been very litcle paffage, and its body was full of the red-gum; but to my great furprize, I found an erifipelas covering all the back and right fide. I ordered ten grains of magnefia, and a clytter of chicken-broth, which brought off a large quantity of thick meconium. This plainly fhewed the child had been neglecied, but the inflammation foon turned livid, and deif ${ }^{\text {royed the child. }}$

## COLLECTION XLVIII.

[Vide Part i. Book iv. Chap. ii. Sect. iv. and v.]
N U M B. 1. C A S E S I. II. III. and IV.-Grsenfiools.

ACHILD, put to a wet-nurfe, was taken foon after with a continual crying and refleffnefs. When I vifited it, at the defire of the parents, the nurfe told me the ftools were fometimes hard, at other times curdled and green; but by the child being much emaciated, I fufpected the nurfe had little or no milk. I touched the fide of the mouth, when it gaped, and greedily fucked my finger. I defired the nurfe to milk from her breaft a little into a cup. She tried, but could not fqueeze out one drop; and faid the child had emptied her breafts juft bcfore I arrived. $\mathbf{I}$ faid nothing to her, but advifed the parents to take away the child before it was farved. I rccommended another, who I was certain had a good breaft. This advice thoy followed, which recruited the child, and carried off the green ftools without the affiftance of any medicine.-I could mention many cafes of the farne kind, where I have faved the infants, when called in time. -Vide collect. 1.

A child that was fuckled by the mother, near the end of the month was taken with gripings, and curdled green fools. I ordered fix grains of rhubarb, and a mixture of half an ounce of magaefin, in two ounces of aq. pur. fweetened with fugar; a fpoonful to be given night and morning. As the milk was rather too thick, and of a yellow tincture, I defired the nurfe ta give the child frequently a little chicken-broth, or beef-tea, as I found that her miftefs was irregular in drinking fpirits. The child grew better, but frequently relapfed, and I advifed weaning it. My adviae was followed. and the child recovered,

I was calle to a child about a month old, brought up by hand. It had been afflicted with green ftools, and was brought very low by purgings. I ordered Aq. alexit, fimp. 弓iij. Spirituous, 亏̄fs. Elect. e foordio, $\overline{\mathrm{f}}$ s. fweetened with fyr. fimp. a fpoonful to be given after every ftool; alfo a clyter made of the decoction of ehicken-guts. For nourifhment, enicken-broth in which rice was boiled. This method reftrained the purging and At rengthened the infant.-In a few days the loofenefs returned; I ordered eight grains of toafted rhubarb and threc grains of toafted nutmeg, and, in twelve hours after, the above mixture; they anfwered the purpofe,-In many fuch cafes I have fucceeded; but when we are called too late, the chiid is generally lolt.

I was called to a child four months old, who had been three weeks much in the above cafe, but all the methods had been unfuccefffully tried, as recommended in part i . The child being opened foon after it expired, I found all the glands of the mefentery fwelled and in hard knots,

## $N \cup M B$. II. CASES I. H. and III.-Apbtbe or thruft.

1WAS defired to vifit a child at wet-nurfe, and told, that its lips, mouth, tiroat, and tongue, were full of 1 ttle white fpots inclining to yellew. The child was about a fortnight old, had caught cold, had been coltive, and the ftools of a clay colour; but afterwards taken with loofe, curdly, green ftools. The fkin fell hot, the pulfe was quick and low. I found the nurfe's milk in plenty, and of a right confiftence. I defired her to give the chi id frequently a little chicken broth; to wafl the mouth gently and often with a linen rag dipped in a gargle of barley-water and mel rofarum; alfo to give breaft-milk, milked in the child's boat. I ordered fome dofes of the pulv, e chel. cancror. comp. gr. v. Rhubarb. gr. i. to be given with the broth night and morning, and a blifter to be applied between the floulders. Next day, the nurie told me fhe had got down pretty often the milk and broth, but not the powders; but that now the child's throat was fo fore that the could get down neither. The appearance of the thrufh and ftools was much the fame. I examined the anus, and found a few fpots. I defired the nurfe to give the child a clyfter of chicken-broth, or a decoction of chicken-guts, every four hours, to try to nourifh it in that manner. Next day the thrufh began to flough off the tongue. She continued the clyfters. The day after, the got down fome milts and broth at different times. The thruh was now more at the fundument, and fo fore the elyfters were left off. After this the exctoments were lefs curdled and green, and not fu frequent ; the thrufh went off, and the child recovered. I have had anany fuch cafes; but the childron feldom recovered when the thrufh rofe ro fueln a hcigit Vide part i. on this fubject.

I was called to a child about five months old, which had been healthy. till within a month before I was ealled. It was taken with a fore mouth, full of little white fpots, which by degrecs tarned to jellow and changed to a duky colour. It could not fuck, but was fupportcd with new-drawn whey, pay, and new milk. It was much emaciated; the flools were loofe, of a brown colour, and cadaverous finell. The gums and throat were black and full of gangrenous ulecrs. I told the parents the child was in the utmont danger, and could not live long. This was late at night, and , it cxpired before morning.

Some time after, I was called to a child about two ycars old, in whom the appearance of the mouth was much the fame, and the diforder of the fame duration. The gums were mortified ; and the child foon expircd.

Thefe laft cafcs are not fo proper to infert here, becaufe I confine myfelf to thofe in the mouth, but as they are of the fanc kind, and fo extraordinary from their long contimuance, I thought they might fhow the danger that enfucs when the patient is not affifted in time. Confult Dr. Fothergill and others on thofe diforders.

## C O L L E C T O N XLIX. <br> [Vide Part i, Book iv, Chap. iii.] <br> CASE I.--With rejpct to men-praditiozers.

MR. W. attended a woman in labour of her firft child. He had gained reputation from being called to affift midwives in the country in preternatural cafes; but as this was the firt time of his being befpoke to attend by himfelf, he was at a lofs how to manage his patient in a natural cafe. The worman was of a hcalthy and robuft conftitution, the labour-pains were frequent and ftrong; but he, not confidering the parts mult have time to foften and dilate, began, as he had formerly done in preternatural cafes, to lubricate and dilate the os uteri, which was chea only open about the breadth of a crown-piece. In this manner he cont $\dot{\xi}-$ nued, cvery now and then, to affilt the delivery for fevcral hours to zo purpofe. The nurfe, who had been many years in that bufinefs, exhorted hims so reft, and not fatigue himfelf, efpecially as the woman was not young, and as the child prefented with the head.

He had attended me one courfe of leitures about three years before, but had not attended the habours, imagining every thing in midwifery trifling. and that the lectures on the extriordinary cafes were fufficient.-Finding himelf at a lofs how to manage the labour, he defired her triends to fent for me; but, contrary to his inclination, another gentleman was called, who by art and cunning had got a name amongt the lower fort of patients. Both thefe gentlemen bcing felf-fufficient, foon fulit in thcir opinions, as to the prefentation of the fortus. He who came laft, alledged the fhoulder prefented, the other dill infifted that it was the head. Thefe debates luckily happened in another room; and continued fo obstinate and long, that the paticnt, who had becn fatigucd moft of the night, fell into a found fleep; being at reft from licr premature affiltant. The nurfe, being afraid that her mittrefs would fuffer irom thefe difagrcements, advifed the hufonad to call an old practitioncr. As I returned from a paticnt about fix in the morning, the hubland was advifing with his neighbour, who knew me, amd begged my advice and affifance. I complicd, and accompanied him to his houle. After hearing the different partics, both male and femalc, 1 , as the paticnt was alleep, defired the might bekept quict. As the faafon was exceffively cold, 1 begged they would regale the attendants and me with forme warm tea; thoping I might have time to foothe the quarrel, for thic females, who werenumerous, had entered into the difputc. At their defire, l examined the patient in time of a pain, and found the os utcri a little open, but rigid. From the globular form and hardnefs of what prefinted. I imagined it rather the head than any other part of the foetus, refling on she upper part of the ofia pubis. 1 then called the gentlemen afide, and obferved that the pofition of the child was of no confequence at prefent ; that the woman being now cafier, this her firlt child, the of uteri rigid, thi
she membranes not broken, it would be better to encourage reft, and allow time for the parts to foften and ftretch gradually by the pufhing down of the membranes and waters. I faid, if the head prefented, it would probably advance; if the fhoulder, it would be time enough to affitt when there was more room, efpecially as the waters were not yet come off. By this remonftrance I brought them to a better temper, and they were at laft reconciled. Indeed 1 thought it always my duty to make up fuch breaches for the general good of fociety, as well as for the honout of the profeffion.-I advifed Mr. W. to attend his patient, bat not to difurb her in the leaf; and propofed that we fhould all three meet at twelve, or fooner if he defired. We were called at ten, but on examining, I found little alteration, only the os uteri felt a little fofter. It was then agreed, that as her pulfe was quick, the fhould lofe eight ounces of blood from the arm; that the nurfe thould adminifter a clyfter, and after the operation give the patient a draught with 30 drops of the tinct. thebaic. Thefe medicines had the defired effect; and Mr. W. delivcred, or rather received the child, prefenting fair, next morning.

## $C A S E \quad I I$.

IRECEIVED a meflage from a lady, to go to one who had been hes fervant, and was married to a tradefman. On my arrival, I found another practitioner there, who feemed much furprized, and with a furly countenance fcolded the hufband for bringing another without his knowledge. As I did not know another of the profeffion was there when I way called, I afked the gentleman's pardon, and told him the meffage I had received, and my ignorance of any other being there but a midwife. The hufband excufed himfelf in faying, it was the lady's goodnefs to fave his wife. This apology feemed to pacify him, but he began to abure the ignorance of all midwives, and he faid he was befpoke, and would not be concerned with any fuch goffips. I told him I was forry my coming fhould give him any uneafinefs, but begged he would tell me how his patient was, that I might inform the lady. By this calm reafoning his furly afpect unbended. He told me he was juit going to deiver his patient, and I was welcome to be prefent at the operation; for he could wait no longer, as he bad already loft one patient by waiting two days on this. I thanked him for his invitation; but begged only he would graist my firf requeft. He then gave me to underftand, that the night before latt the woman had frong pains; but as he was then uncertain how the child prefented, and the had got little fleep fortwo nights before, he had ordered repeated dofes of noium. which had produced no effect ; but that laft night the had been quite itupid and ofien convulfed; and that nothing could fave her life but prefent delivery. He alfo told me the membranes were not broken, but the mouth of the womb was precty largely open; and defired me to examine, which having done, I found the head of the fcotus refting above the ofla pubis; 2 circumfance which he had not obferved. As he had ockafion to withdraw, the aporhecary informed me, the pacient had taken at different times, about 25 grains of opium; and this, he per uaded himfelf, was the occation of hace convulfions and fupidity. I found her pulfe quick and full, while the lay in a profound neep. The nuife told me, for feveral hours the had been very quict. When the gentleman returned, I told him his account was very right, and if he would now canmine, he would find the head refting above atio pebes. This he thought impoifiole, as he had examined fo lately, but
on trying, he confeffed it waseven fo. I likewife told him her pulfe was fill ftrong, and as the had fallen into a found fleep, advifed hin to have a little patience. He now feemed more difpofed to reafon. I therefore obferved to him, that as this was not barely a cafe in midwifery, confidering the ftupidity and convulfions, it would be proper, for the fafety of all concerned, and to prevent reflections, that the hufband fhould go and beg of the lady to fend her own phyfician to our affiftance. He affented to this, and the phyfician came. At his arrival, being defirous of information in every particular, and enquiring minutely about the quantity of opium which had been adminiftered, the man-midwife and the apothecary difagreed in their accounts; when this laft went home to bring the bills, the other declared he was obliged to go to another patient, and therefore would leave the patient to my care. I told him I was engaged alfo, and begged he would attend his patient. The phyfician told him, if the woman was kept quiet, fhe would ileep off her large dofe of opium. This declaration enraged him fo much, that he left the houfe, muttering revenge againft the apothecary.

After fome converfation with the phyfician, we both concluded that the over dofe of opium was the occafion of the convulfions and ftupidity, and that as the effect went off, her pains would come on. We then fent for a midwife, who attended the cafe, and informed me afterwards, that the woman was fafely delivered that night of a dead child; but the recovered very well.

## $N U M B$. Il. CASES 1. H. and III.-Midrvifery.

WHEN midwifery came to be more practifed by gentlemen than formerly, one Dr. C-, vifited all the midwives, and left printed notes of his abode. He was called by a midiwife at Larnbeth; but the woman was delivered before he arrived; neverthelefs, he would examine, and called out that the woman was tore, which the midwife dinied, complaining loudly of his unfair conduct, as the had called him. Unluckily for this novice, the fame accident, to a much greater degree, happened to himfelf a little after, in the very patient that Dr. Simpfon called ine to. Vide col. x1. No vi.-The midwife heard of this incident ; on which fhe every where upbraided him with being guilty of what he had villainoully and falfely laid to her charge.

Another gentleman, many years ago, made a great bufle, got into a confiderable fhare of practice by taking low prices. He abufed the midwives, right or wrong, and was abufed by them. Frequently, inftead of waiting in lingering cafes, where the head prefented right, he turned the child, and brought it by the feet ; by which method both mother and child were often lof. Neverthelefs he gained credit by making cafes appear defperate to thofe concerned. Thefe practices frightened many midwives from calling in men-practitioners. To my knowledge he uas the occafion of many bad cafes, this the midwives have acknowledged to me when I expoftulated with them for not calling me fooner. Such behaviour in the end funk his bufinefs. Several of his better fort of patients were delivered by other gentlemen, and finding themfelves and their children faved, never more had recourfe to lim.
I was one night called to a woman, and was not a little furprized when I came to hear two women folding in a ferocious manner, and ready to come to blows. I foon found they were two midwives of my acquaintance. One was fitting at the bed-fide and defired me to take a pain, faying fhe
would yield her feat to me, but to no midwife in London. I examined, and then defired them both to go into the next room, where I heard that one had been befpoke, but was engaged when fent for; on which the other was called. I again went to the patient, and told her fhe was in a very good way, and afked which of them the chofe for her midwife? She faid the one who was befpoke; for the other the was afraid of. I acquainted them with this decifion; and advifed her that came firtt to yield, for if any accident fhould happen, fhe would be blamed; and told her fhe fhould be paid for her trouble. Thus ended the conteft, and both were pleafed. $V$ ide collect. xxxii. cafe xiii. alfo collect. xxxiv. $\mathrm{N}^{0}$ i. cafe xiv. $\mathrm{N}^{\circ}$ ii. cafe iii. and viii. and collect. xxxiii. $\mathrm{N}^{\circ} \mathrm{ii}$. cafe v .

## EXPLANATIONS TO THE PLATES, or TABLES.





[^0]:    * This author was Eucharius Rhodion, whofe book was in great eftem all over Germany; and in the year t 932 being trannated into latin, and orher languages, from the original Hizh Dutch, became univerfally the woman's-bouk ower all Europe, and was introfucerl inio England; where it was trannated by this Dr. Raynalde, who neverthelefo bas saken gicat lijerties with the authord

