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A T S R E T H ON THE THEORY AND PRACTICE OF

MIDWIFER

TO WHICH IS NOW ADDED,

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A SET OF ANATOMICAL PLATES,

EXHIBITING

THE VARIOUS CASES THAT OCCUR IN PRACTICE,

ACCURATELY ENGRAVED, WITH EXPLANATIONS.

BY W. SMELLIE, M.D.

A NEW AND CORRECTED EDITION, IN THREE PARTS.

PARTI.

LONDON:

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TO THE

STUDENTS OF MIDWIFERY,

AND

THE OTHER BRANCHES OF

MEDICINE AND SURGERY,

(Subscribers to the Medical Clafsics)

THIS NEW AND CORRECTED EDITION

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DR. SMELLIE'S TREATISE

ON THE

THEORY AND PRACTICE OF MIDWIFERY.

WITH HIS

SET OF ANATOMICAL PLATES,

I 3,

WITH THE GREATEST RESPECT,

INSCRIBED,

BY THEIR VERY HUMBLE SERVANTS,

THE PROPRIETORS.

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AT fift intended to have published this Treatife in different lectures; as they were delivered in one courfe of midwifery; but I found that method would not answer fo well, in a work of this kind, as in teaching; because, in the course of my lectures, almost every observation has a reference to the working of those machines which I have contrived to refemble and represent real women and children; and on which all the kinds of different labours are demonstrated, and even performed, by every individual student.

I have, therefore, divided the whole into an Introduction and four Books, diffinguished by Chapters, Sections, and Numbers; and have industriously avoided all theory, except fo much as may ferve to whet the genius of young practitioners, and be as hints to introduce more valuable discoveries 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 those who have not had time or opportunity to peruse 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 themselves, and regulate their practice by those authors who have written most judiciously upon the subject. The knowledge of these things will also help to raise a laudable spirit of emulation, that never fails to promote useful enquiries; which often redound to the honour of art, as well as to the advantage of fociety.

Though I have endeavoured to treat every thing in the most diffinct and concife manner, perhaps many directions that occur in the third book may be thought too minute and trivial by those who have already had the advantage of an extensive practice; but the work being principally undertaken with a view to refresh the memory of those who have attended me; and for the instruction of young practitioners in general, I thought it was necessary to mention every thing that might be useful in the course of practice.

At fiff, my defign was to have inferted cafes, by way of illuftration, according to the method of La Motte; but, upon farther deliberation, I thought fuch a plán would too much embarrafs the fludent in the progrefs of his reading: and therefore I have, in imitation of Mauriceau; published a fecond volume of histories digested into a certain number of elasses or collections, with proper references to the particular parts of this Treatife; fo that the reader, when he wants to fee the illustration, may turn over to it at his leifure, according to the directions in this edition, which will demonstrate and explain what otherwise might not be fo well underflood.

The Collections or claffes confift of the most useful cafes and obfervations; partly culled from the most approved authors, but chiefly collected from my own practice, and that of my correspondents and former pupils, by whom I have been confulted. They comprehend the variety of methods practifed

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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 still more complete, I have taken, from authors of the best authority, a few extraordinary cafes which feldom occur, as well as borrowed fome medical transactions from the most approved modern physicians.

From the inftances 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 affittance, while nature is of herfelf able to effectuate the delivery.

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

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

Nor will the reader, I hope, imagine that fuch a fund will be infufficient for the purpose, or that this Treatise is cooked up in a hurry, when I inform him, that above fix years before its publication I began to commit my lectures 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 fuccefsfully for a long time in the country; and the obfervations I now publish 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 midwifery, for the instruction of more than nine hundred pupils, exclufive of female students; and in that feries of courfes one thousand one hundred and fifty poor women have been delivered in prefence of those who attended me (and supported during their lying-in by the flated collections of my pupils) over and above those difficult cafes to which we are often called by midwives, for relief of the indigent.

These confiderations, together with that of my own private practice, which hath been pretty extensive, will, I hope, foreen me from the imputation of arrogance with regard to the task I have undertaken; and I flatter myself that the performance will not be unferviceable to mankind.

In this Treatife are introduced copper-plate engravings of the moft useful inftruments 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.

INTRODUCTION.

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T must be a fatisfaction to those who begin the study of any art or fcience, to be made acquainted with the rife and progress of it; and therefore, I shall, by way of introduction, give a short detail of the practice of midwifery, with the improvements which have been made in it at different times, as I have been able to collect the circumstances, from those authors, ancient as well as modern, who have written on the fubject.

By thefe accounts it feems probable, that in the first ages the practice of this art was altogether in the hands of women, and that men were never employed but in the utmost extremity; indeed it is natural to suppose, that while the simplicity of the early ages remained, women would have recourse to none but perfons of their own fex in difeases 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 practifing phyfic in any fhape; but the miftaken modefty of the fex rendered it afterwards abfolutely neceffary to allow free women the privilege of fharing the art with the men,

In the Harmonia Gynæciorum, there are extant feveral directions and recipes on the fubject of midwifery, collected from the writings of one Cleopatra, interfperfed with those of Moschion and Priscian; and some people imagine this was no other than the famous Cleopatra, queen of Egypt, because in the preface Arsinoe is mentioned as the author's fister.

Galen, who lived two hundred years after this Egyptian queen, advifes the reader to confult the writings of one of that name, but does not inform 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 fluidy and exercife of fuch an art was not at all fuited to the difposition of fuch a voluptuary as queen Cleopatra is deferibed to have been.

Ætius transcribes some chapters from the works of one Aspasia, 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. Several other female practitioners are mentioned by different hiftorians, but as none of their writings are extant, and the accounts given of them are mostly fabulous and foreign to our purpose, I shall forbear to mention them in this place; and referring the curious to Lc Clerc's Hiftory of Phyfic, begin with Hippocrates, the most ancient writer now extant upon our fubject, who may be flyled the father of midwifery, as well as medicine; becaufe all the fueceeding authors, as far down as the latter end of the fixteenth century, have copied from his works the most material things relating to the difeafes of women and children, as well as to the obfletric art. I shall therefore give a fueeinet account of his practice; and in my detail of the other authors, only observe the improvements they have made, and the circumfrances in which they have deviated from his method and opinion.

Hippocrates, who practifed medicine in Greece, about 460 years before the Christian æra, no doubt availed himfelf of the observations of those who went before him in the exercise of the same profession. He acquired the highest reputation by his wise predictions and successful practice, and by his uncommon fagacity and experience, greatly improved the healing art.

In his book, De Natura Muliebri, and those Dc Mulierum Morbis, he mentions and defcribes several difeases peculiar to the female sex, according to the theory of those times, and prescribes more medicines for the difcases of women than for any other diffempers.

Many of his remedies, indeed, are very firange and uncouth; but a numver of them are fill 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 diagnoftics, prognoftics, and method of cure, are often juft and judicious.

In suppressions of the menses, he first of all orders vomits and purges, then sharp pessatis in form of suppositories, composed of lint or wool, with divers kinds of deobstruent powders, wax and oil, to be introduced into the vagina; he likewise prescribes fumigations, fomentations, and hot baths, together with internal medicines. He observes, that such obstructions produce a pain and sceming weight in the lower part of the abdomen, extending to the loins and ilia, attended with a vomiting at intervals, and longings like those of a pregnant woman. If these symptoms 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 foctid things to the nose, with castor 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; orders 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-glaffes to be 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 water, her complexion becomes wan and yellow, and in walking fhe is opprefied with a difticulty of breathing; in this cafe he preferibes emetics and cathartics, affesmilk, whey, fomentations, and different kinds of medicines, to deterge and ftrengthen 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 gestation, they were actually espoufed by all medical writers till the last century.

In his first book of the discases of women, he treats of difficult labours; observing, that if a woman is at her full time feized with labour-pains, and cannot after a long time be delivered, the child either lies acrois, or presents with the feet; for when the head presents, the case is favourable; whereas if the child lies ccrofs, a difficult labour ensure. This affertion he illustrates by the example of an olive in a narrow-mouthed jar, which cannot be so easily extracted by the middle, as when it presents with one end. He likewise

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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 most part, perish; nor is the birth without difficulty when the fœtus is dead, apoplectic, or double. He then proceeds 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 foctus, and of affifting in difficult labours; if the child prefents fair, and is not eafily delivered, he orders sternutatories to be administered, and the patient to ftop her mouth and nofe, that they may operate the more effectually; fhe must also be shaken in this manner: let her be fastened 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 must be elevated by two affiftants, who gently shake her by intervals, until her pains expel the child; the parts must be anointed with fome uncluous medicine, and cautioufly feparated; and care must be taken that the placenta immediately follows the child. If the foctus lies across, presenting to the os uteri, whether it be alive or dead, he orders it to be pushed back and turned, fo as that it may prefent with the head in the natural position; and in order to effect this purpose, the woman must be laid supine on a bed, with her hips raised 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 across, presenting with the fide or hip, the same methods must be used; then the woman may be refreshed by sitting over the steams 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 fætus 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 head prefents, let it be opened with a fmall knife; and the bones of the skull being broken, must be extracted with a pair of forceps, for fear of hurting 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 reft of the body generally follows with eafe; but if it will not yet give way, the whole breaft must be divided, and great care taken that no part of the intestines be denudated or wounded, left the guts, or their contents, falling out, should retard the operation; then the ribs being broken, and the scapulæ extracted, the rest of the foctus will easily follow, unless the abdomen is fwollen; in which cafe, the belly must 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 pushing up the remainder, turn the head downwards; but, previous to this operation, he advifes him to pare his nails, and to use a crooked knife, the point and back of which must be covered with the fore-finger at its introduction, left it should hurt the uterus.

In his book De Superfœtatione, he directs us, when the child's head appears without the os uteri, and the reft of the body does not follow, the fœtus being dead, to wet our fingers with water, and introducing them between the os uteri 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 those cafes when the child comes by the feet) he advifes the operator to dip both his hands in water, and introducing them between the os uteri and head of the child, grafp this lait with the fingers, and extract it. If the head is

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in the vagina, it may be delivered in the fame manner. When the child remains dead in the utcrus, and cannot be delivered either 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 focus along, as before.

In the first book of the Difeafes of Women, he gives directions for excluding the fecundines, provided they are not expelted in the natural way. He fays, if the fecundines come not away immediately after the birth, the woman labours under a pain in her belly and fide, attended with rigours and a fever, which vanish when they are difcharged; though for the most part the after-birth putrefies and comes away about the fixth or feventh day, and fometimes later. In this case, he orders the patient to hold her breath; and preferibes internally, mugwort, Cretan dittany, flowers of white violets, leaves of agnus castus, with garlie boiled or roafted, fmall onions, castor, fpikenard, rue, and black winc.

In the book De Superfectatione, after having deferibed the methods of delivering a dead child, he fays, if the fecundines come not away eafily, the child muft be left hanging to them, and the woman feated on a high ftool, that the fætus by its weight may pull them along; and left this fhould be too fuddenly effected, the child may be laid on wool newly plucked, or on two bladders filled with water, and covered with wool, which being pricked, as the water evacuates they will fubfide, and the child finking gradually, will gently draw the fecundines away; but fhould the navel-firing happen to be broken, proper weights muft be tied to it, in order to anfwer the fame purpofe; thele being the eafieft and leaft hurtful methods of extracting the placenta.

He afterwards obferves, that if the woman has had a difficult labour, and could not be delivered without the help of machines, the child is generally weak, and therefore the navel-firing ought not to be divided until it fhall have either urined, fneezed, or cried aloud; in the mean time, it must be kept very near the mother; for though the child does not feem to breathe at first, nor to give any other figns of life, the navel-firing, by remaining uncut, may be in a little time inflated, and the life of the infant faved.

With regard to the lochia or menfes after delivery, he takes notice, that if they are altogether fupprefied, or the difcharge infufficient, and the uterus is indurated, the patient is afflicted with pains in the loins, groins, fides, thigls, and fect, together with an acute fever, accompanied with horrors. When the pains happen unattended with a fever, he orders bathing, and the head to be anointed with oil of dill; and a decection of mallows, with oil of Cyprus, to be applied externally, in order to affuage the pain. He fays, in all diforders where fomentations are neceffary, the parts ought afterwards to be anointed with oil; but when there is a fever in the cafe, bathing must be avoided, warm fomentations used, the uterine medicines preferibed in draughts, and garlic, caftor, or rue, boiled with oatmeal; he likewife obferves, that if the uterus is inflamed after delivery, the patient is in imminent danger of her life unlefs a flool can be procured, or the fymptom removed by bleeding. He likewife aferibes feveral complaints and different politions and motions of the uterus; of which laft, Plato, who lived immediately after Hippocrates, gives a very odd and romantic defeription in his 'lineus. After affirming that there is implanted in the genitals of man an imperious, headftrong, inobedient power, that endcayours to fubject every thing to its forious lufis, he fays, the vulva and matrix of women is affo an animal ravenous after generation, which being

being baulked of its defire for any length of time, is fo enraged at the difappointment and delay, that it wanders up and down through the body, obftructing the circulation, flopping the breath, producing fuffocations, and all manner of difeafes.

Although we have a piece in English called Aristotle's Midwifery, I find little or nothing of the practice in his works; he hath written 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 gestation and labour; that those women who take most exercise, endure both with the greatest ease and fastery; and that the foctus in all animals naturally comes by the head, because there being more matter above than below the navel, the head necessarily tilts downwards. For this reason, he fays, every birth in which the head prefents is natural, and those unnatural in which the feet or any other part of the body come foremost.

We have nothing written on the fubject 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 chapter 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 polition, he advifes the operator to introduce one finger after another, until the whole hand shall gain admittance; he fays, that the largeness of the uterus, and the ftrength and courage of the patient, are great advantages to the birth ; that the woman's abdomen and extremities must be kept as warm as poffible; that we must not wait until an inflammation is produced, but affist her without delay; because, should her body be swelled, we can neither introduce our hands, nor deliver the child, without great difficulty; and vomitings, tremors, and convultions, often enfue. When the crotchet is fixed upon the head, he directs us to pull with caution, left the inftrument fhould give way, and lacerate the mouth of the womb; by which means the woman would be thrown into convultions and imminent danger of her life. When the feet prefeut, he fays, the child is eafily delivered, by laying hold on them with the hands, and fo bringing them along. If the foetus 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 almost doubled, and the head bent backwards; in which cafe this last must be separated from the body, and the whole extracted piece-meal. The operation, he fays, must be performed with a crotchet, the internal furface of which is edged, and the head be brought away before the body; becaufe, if the greatest part be extracted first, and the head left alone in the uterus, the cafe will be attended with great difficulty and danger. Neverthelefs, fhould this misfortune happen, he directs a double cloth to be laid on the woman's belly, and a skilful affistant to stand at her left fide, and with both hands on the abdomen to prefs from fide to fide, with a view of forceing the head against the os uteri; which being effected, it must be delivered by fixing the crotchet in the skull. With regard to the placenta, he directs us to deliver it in this manner: The child being delivered, must 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-hand as far as the fecundines, feptrates the placenta from the uterus with his fingers, and extracts it entire, together with the grumous blood; then the woman's thighs being placed close together, the must be kept in a moderately

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moderately warm room, free from wind, and a cloth dipped in oxyrrhodon must be laid on her abdomen; the rest of the cure consisting in the application of those things which are used 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 first of all to be relaxed with oil ; if the paffage of the urine is obstructed by a stone in the neck of the bladder, he advises us to draw off the water with a catheter; if the fæces are indurated, he preferibes a clyster; and orders the membranes to be pierced with a lancet. He fays the best position is that of the head prefenting, the hands and feet being mingled and disposed along the fides: If the position is not right, and cannot be amended by putting the woman in proper positures, he advises us to introduce the hand when the os uteri is opened; and turn the child. If a foot prefents (fays he) push it back, and bring the fætus by both feet, the arms being pressed down along the fides; if the knee or hip prefents they must also be pushed back, and the child brought by the feet; if the back prefents, introduce the hand, and alter the position by turning to the feet or to the head, if it be nearest; and if the head is large it must be opened, &c.

Rufus Ephefus, who lived in the reign of Trajan, gives a flort account of the uterus and its appendages, and defcribes those tubes which are now called Fallopian, as opening into the cavity of the womb; though Galen arrogates this discovery to himself fo particularly, as to fay upon this fubject, that he was surprised to find they had escaped the notice of the common herd of anatomist; but more especially amazed that a man of Herophilus's accuracy should be ignorant of them; and Rufus has expressly mentioned the opinion of Herophilus on this particular.

Galen was born in the time of the emperor Adrian, anno Dom. 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 accounted fpurious) one De Uteri Diffectione, de Fœtuum Formatione, de Septimeitri Partu, lib. 14, and 15, de Ufu Partium. He hath alfo written feveral books on anatomy and phyfiology, but nothing *de morbis mulierum*. In his phyfiology 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 feveral places of his works, an account 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.

Ætius, who (according to Le Clere) lived in the end of the fourth, but 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 filled original writers; the laft indeed copied from none fearcely but Galen, and was therefore filled Simia Galeni; whereas the other 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 difeafes and management of women; his fourth Sermo of the fourth Tetrad being exptefsly written on this fubject, and containing almost every thing which had been faid before him. In his first chapter, De Uteri Situ, Magnitudine, ac Forma, he diffinctly divides the womb into a fundus and neck, and deferibes the os tincæ 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 defeription of this difeafe is to the following purpofe:—Young women with child have vitiated appetites, and long for earth, afhes, coal, thells, &c. The diftemper continues till the fecond or third month of geflation; but eommonly 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 a detail of Afpafia's practice in the care and management of women during pregnancy, and in the time of labour; but the greateft part of thefe and the other chapters are taken from Hippoerates, to whom he has made a few infignificant additions, until we come to the twenty-fecond, in which there is a very full and diffinct account of difficult births.

Among the caufes that produee difficult labours, he enumerates 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 fubftance adhering to the cervix or mouth of the womb, inflammation, abfcefs 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 flone prefing against the neek of the bladder, and extraordinary fatnefs; an anchylofis of the odia pubis at their juncture, by which they are hindered from feparating in time of parturition; too great prefiure of the uterus on the cavity of the loins, or too great quantity of fæces and urine retained in the rectum and bladder; an enfeebled conflictution, advanced age, flender make; and greennefs of years, attended with weaknefs and inexperience.

He observes; that difficult labours likewise proceed from circumstances belonging to the child that is to be born; from the extraordinary fize of the body or any part of it; from its being unable (through weakness) to facilitate the birth by its leaping and motion; from the erowding of two or three foctuses; from twins presenting together at the mouth of the womb; from the death of the child, as it can give no affistance in promoting labour; from its tumefaction after death, and wrong presentation.

He fays the natural position is when the head presents and comes forwards; the hands being extended along the thighs; and the preternatural, that in which the head is turned either to the right of left fide of the uterus; when 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 hands along the thighs; and that if while one leg prefents, the other is kept up of bent in the vagina, this laft mult be brought down; nor is the difficulty great in those that lie across, a eircumflance that may happen in three different ways; namely, when the child prefents with either fide, or with the belly; neverthelefs he observes, that the cafe is edsieft when the fide prefents; because there is more room for the operator to introduce his hand and turn the focus, fo as that it m y come either by the head or feet. The worft polition, he fays, is when the child prefents double, especially if the hip bones come forcmost; this double prefentation happens with the hips, the head and legs, and the belly; in which

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last cafe he observes, that if the abdomen is opened, and the entrails taken out, the parts collapse, and the position is easily altered.

Over and above the fore-mentioned caufes of difficult labour, he affirms it may be owing to an over-thickness or thinness of the membranes which break too late or too foon; as alfo to external caufes, fuch as cold weather, by which the pores and paffages of the body are conftringed; or very hot weather, by which they are too much relaxed. All these circumstances, he fays, ought to be minutely enquired into, and duly confidered, by the phyfician who directs the midwife; nor ought this last to be permitted to tcar or flretch the parts with violence. If the difficulty proceeds from the form of the pelvis, he directs the woman to be feated on a flool, her knees being bent and kept afunder; by which means the vulva will be dilated, and the cervix extended in a fireight line; and those that are gross or fat are to be placed in the fame manner. If the difficulty arifes from straitness, stupor, or contractions, he fays it will be proper to relax the parts, by feating the patient over warm ficams and fumigations in a place conveniently warmed; by pouring into the vagina warmed oils, and by the application of emollient ointments and cataplafins'; for this purpofe he likewife recommends the warm bath, unleis a fever or other complaint render it improper. Some, he obscrves, are carried about in a litter in a warm place; and others have been fubjected to violent concuffions; but those who, by a weak loofe habit, are too much enfeebled to undergo labour, ought to be treated with prefcriptions that confolidate, flrengthen, and conftringe; they ought to 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 foctus, it must be as much as possible reduced into the natural way. If the foot or hand is protruded, the child must not be pulled by either; the limb muft be returned, twifted, or lopped off, and the shoulder or hip moved with the fingers into a more convenient fituation. When the whole body of the fœtus is ftrongly prefied down in a wrong polition, he advifes us to raife it to the uppermoft part of the uterus, and turn it downwards again in a right pofture; this operation must be performed gently and flowly, without violence; oil being frequently injected into the parts that no injury may be fufficient further mother or child. If the mouth of the womb continues clofe fhut, it must be fostened and relaxed with oily medicines; if there is a flone in the neck of the bladder, it must be pushed up with the catheter, and the urine (if in great quantity) drawn off. If the rectum is filled with faces, it muft be evacuated by clyfters; and proper methods are to be taken when delivery is prevented by inflammation, abfcels, uker, foft or hard . tumours, or any other fuch obstacles.

If the difficulty proceeds from a flefhy fubftance adhering to the neck of the womb, or from a thick membrane found in those women who are imperforated, the obstacle in both cases must be removed by the knifc; and if the membranes that furround the child are too rigid to give way at the proyer time, they must be cut without delay; if, on the contrary, the waters are discharged too foon, fo as that the parts are left dry, the want of them must be fupplied with lubricating injections made with the whites of eggs, decostions of mallows, fenugreek, and the cream of barley ptifan.

If the difficulty proceeds from the fmallnefs or firong contraction of the nterns, the parts are likewife to be rendered foir and diffenfible with lubricating ointments and fomentations; the mouth of the womb muft be dilated with the fingers, and the child extracted by force; but fhould this method fail, fail, the foctus muft be cut in pieces, and brought away by little and little. This, he fays, is the only refource when the foctus is too large, and the most 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 children prefent in the neck of the uterus, those that are highest must be raifed to the fundus, until the lowest be first delivered.

• If the difficulty is owing to the exceflive largenels of the head, breaft, or belly, he fays, it will be abfolutely neceffary to open these cavities; and observes, that the most proper time for placing the woman in labour upon the stool, is when the membranes are felt presenting in a round extended bag.

His twenty-third chapter contains the method of extraction and exfection of the fœtus 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, lethargie, feized with convultions, fubfultus tendinum, with a difordered pulfe, it is better to decline the operation than run the risk of her perishing under his hands; but if he thinks her ftrength and courage fufficient for the occasion, let her be laid in bed, on her back, her head being low, and her legs held afunder by ftrong experienced women ; fhe may take by way of cordial, two or three mouthfuls of bread dipped in wine, in order to prevent her fainting; for which pur-pofe, her face may be also sprinkled with wine during the operation. The furgeon having opened the pudenda with an inftrument, and observed the source of the difficulty, whether tumour, callus, or any of the caufes already mentioned, he must take hold of it with a forceps, and amputate with a biftory. If a membrane obstructs the mouth of the womb, it must be divided, If the delivery is prevented by the rigidity of the membranes that envelope thefectus, they must be pinched up with a pair of fmall forceps, and cut with a sharp knife, then the perforation may be dilated with the fingers, so as to effect a sufficient opening for the passage of the child.

If the passage is obstructed by the head of the focus, it must be turned and delivered by the feet; but if the head is fo impacted as that it cannot possibly be returned, a hook or erotchet must be fixed in the eye, 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 the fingers of the left-hand, another must be infinuated in the fame manner, and fixed on the opposite fide, that the head may be extracted more equally, without flicking in one place; and one of the inftruments hold in cafe the other should flip; and when these crotchets are properly applied, the operator must pull, not only in a ftreight line, but also from fide to fide.

He directs us to introduce our fingers befineared with unchuous medicines, betwixt the mouth of the womb and the impacted body, in order to lubricate it all round. When the foctus is delivered as far as the middle, the extracting inftrument muft be fixed in the upper parts; if the head is either naturally too large or dropfical, it muft be opened with a fharppointed knife, that it may be evacuated, contracted and delivered; but if, notwithftanding this operation, it cannot be brought along, the fkull muft be fqueezed together, the bones pulled out with the fingers, or bone-forceps, and the crotchet fixed for delivery. If after the head is extracted, there thould be a contraction round the thorax, a perforation muft be made near

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the clavicles in the cavity of the breaft, that the bulk may be diminified by the evacuation of the contained humours; if the child is dead, and the belly diftended with air or water, the abdomen must also be opened, and, if need be, the inteffines extracted.

If the arm prefents, it must be separated at the joint of the shoulder; for this purpose a cloth must be wrapped round it, that it may not slip while it is pulled down to the shoulder; then opening the labia, the joint will appear at which the limb may be taken off. I his amputation being performcd, the head must be pushed up, and the focus delivered. The same method must be pursued when both arms present, and when, though the feet are forced out, the rest of the body will not follow; in which case the legs must be separated at the groins.

If, when the foctus prefents double and cannot be raifed up, the head is farthest down, the bones of the skull are to be squeezed together without opening the fealp 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 the legs are nearest, they must be amputated at the coxa, and the hips pushed up, fo as to allow the head to be fqueezed and prepared for extraction. When the fœtus presents double, he says it is better to divide the head from the body than to puih up the thorax and deliver by the feet; but should the rest of the body be delivered and the head left behind, the left-hand, anointed, must be introduced into the utcrus, and the head being brought down with the fingers to the mouth of the womb, one or two crotchets must be fixed upon it, in order to bring it along; the most 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, præcordia, breaft, and joints of the back and neck; for the lower parts, on the pubis, or in the pundenda of female children.

If the mouth of the womb be flut by an inflammation, he cautions us againft using any violence, but orders it to be fostened and relaxed by oily medicines, fumigations, baths, cataplasms; by these means the inflammation will be leffened or removed, and the os internum dilated so as to allow the foctus to be delivered. If the body has been extracted piece-meal, he directs the parts to be laid together, in order to observe if the whole is delivered; and if any thing remains, it must be extracted without delay.

In his twenty-fourth chapter (the fubftance of which is also taken from Philumenus) he lays down the following directions for extracting the fecundines:

The os internum (when the fecundines are detained) is fometimes flue, fometimes open, and often inflamed; the placenta fometimes adhering to the fundus, and fometimes in a flate of feparation. If the os internum is open, and the fecundines, feparated from the uterus, I c rolled up like a ball, they are eafly extracted by introducing the left-hand warmed and anointed; and after taking hold of them, drawing them gently down from fide to fide, and not flreight forwards, for fear of a prolapfus vulvæ If the os uteri is flut, it must be opened flowly with the finger, after it hath been lubricated with oil, or auxunge. If this method flould fail, a pultice of l arley-meal malaxed with oil, must be applied to the belly, the oily injections repeated, and if the patient's flrength will permit, flee must table flernutatories of caftor and pepper, and potious of those medicines that bring down the menfes, fitting at the fame time over a fumigation.

All thefe things must be tried on the first and fecond days, and if they fucceed to as to open the mouth of the womb, the fecundines will be easily extracted extracted as above. But if all thefe methods fail, the woman must be not longer fatigued; they will in a few days putrify and come off in a diffolved fanies; and should the fortid fmell affect the head and stomach, he preferibes fuch medicines as are used in obstructions of the menses.

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, Afpafia, and Afelepiades.

The next confiderable author on this fubject is Paulus Ægineta, whom Le Clere fuppofed to have lived in the latter end of the fourth century, though Dr. 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 Ætius and Philumenus, as above deferibed; 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 first who had the name of man-mid-wife from the Arabians, the writings of Ætius plainly shew that there had been many male-practitioners before him. In the seventy-fixth chapter of his third book, which treats of difficult births, he gives the appellation of natural to all those in which the head or feet present; and all other positions he deems preternatural.

In another place, he observes, that the woman ought to be feated on the ftool or chair, when by the touch the mouth of the womb is felt open, and the membranes pushed down. As to his method of extracting a dead child and the placenta, it is much the fame with that already deferibed from Philumenus, in the preceding article.

Paulus is fuppofed to have fludicd 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 eaft; the fchools of Alexandria were removed to Antioch and Haran by the Saracens, who fubdued Egypt, and deftroyed the Roman empire in Afia; and then the Greek phyficians were translated into the Syriac and Arabic, at leaft the Arabians eopied from them. This fubject is fully difeuffed by Dr. Friend, in his Hiftory of Phyfie.

Serapion, one of the first 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 ninth century lived at Bagdat. Like other fyftemartic writers in phyfie, he hath treated of the difeafes of women; and written one book expressly on the difeafes of children.

In the last chapter of his Liber Divisionum, he orders the membranes when they are too tough, to be pierced with the nail of the singer, or with a little knife; and if the waters are discharged a long time before delivery, fo that the parts remain dry, he directs us to anoint them with oily cerates.

Aviccuma lived at Ifpahan about the year 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. He is a voluminous author, treats largely of every part of midwifery, fo far as it was known in his time; copying from those that went before him; the operation for the dead child he takes from Paulus; the extraction of the fecundines from Philumenus; and the use of the fillet from his countryman Rhazes. Rhazes. He is very full on all the difeafes of women relating to the menfes, uterine gestation, and delivery.

In all preternatural eafes he fays, the head ought to be reduced into the natural position: but should this be found impracticable, he advises us to deliver by the feet. He alledges that the head is the only natural way of prefenting, and that all other positions are preternatural; though of these the easieft is when the focus prefents with the feet.

He recommends all the old methods for affifting in natural labours; and if the woman cannot 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 fhould thefe fail, to open the fkull; by which means the contents will be evacuated, the head diminifhed, and the fœtus eafily 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 fame perfon who was alfo known by the name of Alfaharavius.

He hath written on natural labours in the fame way with his predeceffors, advising us to affist the birth with fomentations and ointments, and by reducing the child into the natural position when any other part than the head prefents. His operation for extracting the dead child is literally the fame with that deferibed by Ætius; but whether he copied it from that author, or from other Arabians his predeceffors, is uncertain.

What is most particular in this author is, the defeription and figures of the inftruments then used in midwifery; namely, a vertigo for opening the matrix, which feems to be much of the fame contrivance with that which Rhazes calls the *torculum volvens*. He likewife exhibits the figures of two other inftruments for the fame purpofe; but not one of the three in the least refembles the fpeculum matricis, deferibed in later writers: an impellens, to keep up the body of the child while the operator endeavours to reduce the head into the natural position: two kinds of forceps, the larger he calls *almifdach*, the other *mifdach*; and two different kinds of crotehets. The almifdach is of a circular form, and feems contrived to deliver the head in laborious cafes; the mifdach is ftreight and full of teeth, according to the manufeript in the Bodleian library at Oxford; but in the Latin edition, both are circular and full of teeth.

After the twelfth century, phyfic began to decline in Afta. Theodore Gaza brought the Greek manuferipts from Conftantinople, after that city was taken in the year 1453; and about this time the art of printing being found out, all the knowledge of the ancients was foon difperfed over Europe.

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

In the year 1565, one Dr. Raynalde published a book on midwifery, which he had translated into English from the original Latin. He informs the reader in his prologue (as he terms it) that the book, which was called De Partu Hominis, had been translated about two or three years before, at the request of fome women, by a studious and diligent clerk; who having performed the task incorrectly, be (Dr. Raynalde) had been at great pains to revise and enlarge it in another translation; he also observes, that the Ltin

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Latin edition had been formerly published in Dutch, French, Spanish, and other languages.*

The author of this performance (contrary to the opinions of all other writers) fays, when the child prefents in the natural way with the head, that the face and fore-parts of the foctus are towards the fore-parts of the mother; and that if any other part prefents, the polition is preternatural. He observes, that in France and Germany the woman is commonly placed in a fitting polition, on a flool made in form of a compass; and advifes us, in all preternatural cafes, to turn the child to the natural polition, even when the feet prefent; but if this flould 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 preferibe internally, affa-fœtida, myrrh, caftor, and ftorax; from which circumflances, he feems to have copied from the ancient writers.

Several authors of note lived and wrotc 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 most remarkable among these writers, who are called the old moderns, was published at Basil, 1586, in 4to. entitled, Gynæciorum Commentaria; and afterwards, in 1597, republished at Strasbourg in tolio, by Ifrael Spacius, professor of medicine in that city, with the addition of two authors who had not been mentioned in the first. At the head of this collection is Felix Plateras, born at Basil; he published tables, explaining the use and structure of the parts of generation proper to women.

The next is the Harmonian Gynzciorum collected from Cleopatra, Moschion. Theodorus Priscianus, and another uncertain author, freed from repetitions and superfluities by Casparus Vulphius.

Then follows Éros or Tortula, first published among the old Latin writers at Venice, by the fons of Aldus.

The fourth place is held by Nicolaus Rocheus, a Frenchman, whofe works, publifhed at Paris, are taken from the Greeks and Arabians; though he hath added fome obfervations of his own. In his twenty-eight chapter he fays, if the child is large, the os uteri muft be dilated; if the hand or foot prefents, neither muft be laid hold on; but the operator introducing his hand to the buttoek or fhoulder, muft reduce the fætus into the natural fituation, that is, fo as to prefent with the head. His thirtieth chapter contains directions for extracting the placenta when it adheres. The os uteri muft be dilated, and the accoucheur taking hold of the funis, muft pull gently from fide to fide, left the uterus fhould be brought down; then more itrength muft be excreted by degrees, until the fecundines are brought away. His thirty-fecond chapter treats of monfters.

Ludovicus Bon ciolus, of Ferrara, is the fifth : his works were published at Strafbourg.

The fixth is Jacobus Silvius, of Amiens in Picardy.

Then comes Jacobus Rueff, who published at Zurich in Switzerland, and afterwards at Franckfort. He is the first who gives a draught of the speculum matricis for dilating the os internum, which he directs to be

^{*} This author was Eucharius Rhodion, whole book was in great effect all over Germany; and in the year 1532 being translated into Latin, and other languages, from the original High Dutch, became univerfally the woman's-book over all Europe, and was introduced into England; where it was translated by this Dr. Raynalde, who neverthelef. has taken great liberties with the author.

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

The ninth is Johannes Baptista Montanus of Padua. Victor Trincavillius of Venice is the next. Albertus Bottonus of Padua is the eleventh.

After him comes Joannes le bon-Heteropolitanus.

The author who holds the next place in this collection, is Ambrofius Paixus, the famous reftorer and improver of midwifery. He lived at Paris, and his works were translated into Latin by Jacob. Gullimeau.

Next to him; Spachius places Albucaiis the Arabian, already mentioned. Then, Franciscus Rouffetus, who wrote on the Czefarian operation. His work was translated from French by Casparus Bauhinus; and feveral of his cases are published in the Memoirs of the Academy of Surgeons, by M. Simon:

There is also the figure of a petrified child, extracted from the womb after the death of the mother; a particular account of which, is added to Cordæus' comment upon Hippocrates.

Cafpærus Bauhinus, professor at Basil, is the sixteenth. Then Mauritius Cordæus, of Rheims and Paris.

The next is Martinus Akakia, of Paris; and the laft is Ludovicus Mercatus, a Spaniard. This author fays, if the child does not prefent with the head or feet, 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 preferibes bleeding in the foot, after Hippocrates; but is againft the ufe of the bath.

If the fœtus comes double, or prefents wrong, he directs us to pufh it up; and bring down the head, if poflible; which ought alfo to be our aim when the hand or foot prefents. He orders the fingers to be introduced, as Paulus directs (*digitis in unum conductis*) that is, the fingers and thumb formed into the fhape of a cone. He exclaims againft the Cæfarian operation as an unchriftian undertaking; directs us, when the placenta adheres, to introduce the hand, and pull the funis gently from fide to fide; and recommends fneezing to the woman, as conducive to its expulsion.

When he treats of the manner of extracting a dead child, he fays, with Ætius, we ought fift to confider whether or not the woman has firength fufficient to bear the operation; then gives the method of Hippocrates; and in the next page deforibes the manner of Ætius.

Having thus given a fhort fketch of the authors collected by Spachius, I fhall return to Paræus, who (as I have already hinted) was the first modern' that made any confiderable improvements in midwifery, which continued to his time without any material alteration, even after the other branches of physic had been improved. For example, if the child did not prefent in the natural way, they shook and altered the position of the woman, by which means they imagined the fætus would turn to the right posture; or they attem_r ted to move it fo as that it should prefent with the head. If this 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 extracted 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 freight knives; and then extracted it piece-meal:

Paræus was the first who deviated from this practice, and expressly orders the child to be turned and brought away by the feet in all preternatural eases. He fays, the most natural case is that in which the child prefents with the head; and is delivered immediately on the discharge of the waters : it is more difficult when the fortus comes by the feet, and itill more fo on the prefentation of the arm and legs together; the back, belly; arm alone, or any other unnatural position. He directs us to bring away the fecundines immediately after the child is delivered: He Fetains the old notions relating to the discases 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 Jacobus Rueff, who practifed at Frankfort, and in his writings recommends the method of the ancients; a circumftance from which we learn, that the improvements had not then reached Germany. Indeed they were very much retarded by the falfe modefly of the women; who were thy of male practitioners; and by the millaken notions which were at that time entertained of the thructure of the uterus; for all the defcriptions till the time of Vefalius were very imperfect; and the womb in women fuppofed to be formed of different cells; refembling those of the brute fpecies.

Jacobus Guillemeau was the pupil of Ambrofius Paræus, adopted and confirmed his mafter's practice; and has written with learning and judgement.

About the end of the fixteenth century; or in Paræus's time; furgery in géneral was more cultivated and improved in Paris than any other part of the world; by means of the hofpitals which had been from time to time erected; especially the Hotel Dieu, into which poor women with child; destitute of the necessaries of life, were admitted:

By fuch opportunities; the furgeons improved their knowledge in midwifery; and by degrees established a better method of practice; the fuccess that attended which; together with the progress of polite literature, that began to flourish about this time in France, got the better of those ridiculous prejudices which the fair fex had been used to entertain, and they had recourse to the affistance of men in all difficult cases of midwifery. This conduct was justified by experience; and the lives of many women and children were faved by the skill of the man-practitioner.

In the year 1668, Francis Mauriceau, after an extensive practice for feveral years in the Hotel Dieu and city of Paris; published a treatife on midwifery, which exceeded every thing before made public on that subject. He describes the bones of the pelvis, and all the parts subfervient to generation; the diseases incident to pregnant women, with the methods of prevention and cure; and; after having given a full and distinct account of all the different labours, and the way of delivering in each case, concludes his work with the diseases of women and childred.

His method of practice was nearly the fame with that of Parzus, and Guillemcau; but he is much fuller than either. In laborious cafes, when the head prefents, and cannot be delivered by the labour-pains, he orders a fillet or firipe of linen to be flit in the middle, and flippe l over the head;

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this contrivance hath fince been improved with laces, by which it is contracted on the head. It is introduced by three different inftruments, fixed with a great deal of trouble, and after all, of very little use.

He also invented a tire-tete, which cannot be applied until the fkull is. opened with a knife; confequently can be of no fervice in faving the child; and granting the foctus 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 extract it, by introducing over it a broad fillet like a fling.

He is fo full on the difeafes, that Boerhaave recommended him and Mercatus to his feholars on that fubject. In his theory of conception, he hath not deviated from the opinions of Hippocrates; and in his fecond volume he hath published a great many judicious aphorisms, that are now translated into English by Mr. Jones; indeed, his writings were fo universally approved, that they have been translated into feveral different languages.

Cotemporary with Mauriceau, were Dr. Chamberlain and his three fons, who practifed midwifery in London with great reputation. One of thefe fons, father to the late Dr. Hugh Chamberlain, translated the first volume of Mauriceau into English; 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 himself, were in possession of a much better contrivance for that purpose.

This was no other than the forceps, which they kept as a noftrum, and was not generally known till the year 1733, when a defeript on of the inftrument was published by Chapman. Long before that period indeed, feveral kinds of forceps or extractors, different from those mentioned by the Arabians, were used in France, Germany, and other places; but all of them fell short of the instrument used by the Chamberlains, and faid to be contrived by the uncle.

In the laft century, although there were fuch excellent practitioners in London, and even before the translation of Mauriceau, Guillemeau's book on midwifery had been translated into English; and in it all the abfurd notions about spells and amulets were left out: nevertheless one Nicholas Culpepper, who files himself Gent. fludent in physic and astronomy, published 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, &c. and frequently advises the reader to confult his translations of Sennertus, Riverius, Riolanus, Bartholin, Johnston, Veflingius, Rulandus, Sanctorius, Cole, the London Dispensatory, and a book which he himself had published under the title of The English Physician. His performances were for many years in great vogue with the midwives, and are fliil read by the lower fort, whose heads are weak enough to admit fuch ridiculous notions.

He was fucceeded in that way of writing by one Dr. Salmon, who was also a great translator and compiler. He was partly author of a spurious piece called Aristotle's Midwife y, which hath undergone a great many editions, and contributed to keep up the belief of the marvellous effects of various medicines.

Mauriceau, in 1706, published a fecond volume, containing about eight hundred observations; but long before that period, he had gained such reputation by his writings as encouraged others of the same nation to write on the same subject. Accordingly we have the works of Portal, Peu, and Dionis; but all of them fall short of Mauriceau. About this time also Saviard wrote several observatious on the same art. Henry Daventer practifed at Dort in Holland; and in 1701 published a book on midwifery. He observed, that an imaginay streight line falling down from the naval would pass through the middle of the pelvis. This will nearly hold true when the abdomen is not diffended; but in the last month of uterine gestation, in order to pass through the middle of the pelvis, fuch a line must be let fall from the middle shows the naval and fcrobiculous cordis. This, however, was a good hint and useful in practice.

He pretends to have made feveral ufeful difcoveries, which feem feafible enough to those who have not had the opportunity of an extensive practice; fuch as the fide or wrong positions of the os internum and fundus uteri, which (according to him) are chiefly the occasion of lingering, difficult, and dangerous labours. He feems to have been led into this mistake, by fupposing that the placenta always adhered to the fundus uteri. As to the difficulties proceeding from the wrong position 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 pushing down the waters or head of the child.

He was feldom called except in difficult cafes, often proceeding from a difforted pelvis, which is common in Holland. When this is the cafe, the head of the child is commonly caft forwards over the pubis by the jetting in of the facrum; or if one ilium is higher than the other, the os internum and fundus are thrown to different fides: but even then the chief difficulty is owing to the narrownels of the pelvis. The uterus is very feldom 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 those difficulties he feems to have met with : and fhould the labour prove tedious on account of a pendulous belly, by altering the woman's polition, the obflacle is commonly removed.

For example : let her breech be raifed higher than her fhoulders; or fhe 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 positions of the uterus, in which he is the more excufable, as he had the fondnefs of a parent for a theory that he alledges was his own, yet there are some 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 published a book on midwifery, which feems to be the best of the kind fince Mauriceau, and is translated into English by Mr, Tomkins. It contains about four hundred observations, the greatest part of which are illustrated with many judicious reflections.

In defcribing a cafe in which the head prefented, he mentions the great fatigue it had coft him to turn and deliver by the feet; and hopes that fome eafier method will be found out for extracting the child in fuch circumftances: fo that, although he wrote fo lately, he must have been ignorant of the forceps. He, as well as Daventer, exclaims against the use of inftruments; and in most laborious cafes, when the head prefented, turned and extracted the focus by the feet.

A number of fuch cafes he has recounted ; but I am afraid that, like other writers, he has concealed those that would have been more useful to

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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 possibly force it away; and frequently, when the focus hath been turned with great fatigue, and the body actually extracted, the force required to deliver the head with the hands alone is fuch as deftroys the child; and fometimes it is abfolutely impossible to bring it along without the help of inftruments.

For my own part, when I first began to practife, I determined to follow the method of those gentlemen; but having by these means lost feveral children, and sometimes the mother, I began to alter my opinion, and confult my own reason; in confequence of which, in cases of such emergency, I opened the head, with a view of faving the woman if I could not preferve the life of the child. In the course of my deliberations on this subject, I likewise tried to improve upon the forceps, which seemed to me an instrument more mechanically adapted and easier applied than any other contrivance hitherto used; and surger emerging the use of this expedient, by which we are enabled to fave many children which otherwise must have been destroyed.

Not that I would be thought to exult over those authors whom I have mentioned, as mostly enemies to all instruments whatever : in other things they have written very judiciously ; and are blame-worthy in nothing fo much as in having suppressed those unsuccessful cases which must have pened to men of their extensive practice.

I own indeed, when the woman has not ftrength 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 practitioners, 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 published a flort account of the practice of midwifery, illustrated with about fifty cafes; and is the first perfon who made public a defcription of the forceps used by the Chamber-Jains. Giffard's observations were published in the following year, by Dr. Hody, containing many useful remarks and histories of cafes in which he had used the extractors or forceps.

Heister, professor at Helmstadt, a little town in the dukedom of Brunfwick, in the year 1739, published at Amsterdam a treatise on surgery; in which we find a very concise and distinct account of the practice of midwifery, as well as of the Cæsarian operation.

Mr. Ould, furgeon in Dublin, in the year 1742, published a treatife on the practice of midwifery: in which there are two good observations; one relating to a cafe in which the head prefents, and the other specifying what is to be done when delivery is retarded by the twifting of the funis round the neck of the child, He prefers his terebra occulta to the fciffars, probably because he did not know the proper dimensions of this last instrument. The very next year, Mesnard published at Paris a book on the same subject, by way of question and answer; and is the first who contrived the curved in lieu of the straight crotchets, which is a real improvement. Over and above the writings of those I have mentioned, there are a greatmany curious and extraordinary observations on the practice of this art in Shenckius, Hildanus, Bonetus, the Philosophical Transactions, the Academies of Sciences and of Surgeons, and the Medical Essays of Edinburgh; and besides these, the best modern authors who have written on the disease of women and children, are Sydenham, Harris, Boerhaave, Friend, Hamilton, Hoffman, and Shaw.

On the whole, that the young practitioner may not be mifled by the ufelefs theories and uncertain conjectures of both ancient and modern writers, it may be neceffary to obferve in general, that all the hypothefes hitherto efpoufed are liable to many material objections; and that almost 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 Hippocrates has written, about the form of the uterus and its various motions, conception, the formatiom of the child, the feventh and eighth month's births, was believed as infallible till the laft century, when his doctrine of conception and nutrition of the fœtus was overthrown; and many new and uncertain theories, on the fame fubject, introduced.

Some of the moderns conclude, that the ancients never turned and brought children by the feet, becaufe Hippocrates directs us, in all cafes, to bring the head into the natural fituation; and fays, that when delivery is performed by the feet, both mother and child are in imminent danger. Celfus, and all the writers till the time of Patzeus, 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 mult fearch for the feet, and deliver the fœtus 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 use 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 must be opened and the fame method used 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 fuperfition; becaufe the affiftance of men was feldom follicited in cafes of midwifery till the laft extremity: and those difadvantages being confidered, we ought to be furprized at finding fo many excellent observations in the course of their practice; and be assumed ourfelves of for the little improvement we have made in fo many centuries, notwithstanding our opportunities and the advantages we had from their experience.

True it is, we have established a better method of delivering in laborious and preternatural cases; by which many children are faved that must have been destroyed by their manner of practice; but are not many modern practitioners justly branded for their fordid and unfocial principles, in professing nostrums, 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 person of our profession who did

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not pretend to be in possession of some fecret or another; from whence he concluded that we were altogether a body of empirics. Such reflections ought to make a fuitable impression upon the minds of the honess and ingenuous, prompt them to lay aside all such pitiful fells considerations, and for the future act with openness and candour; which cannot fail of redounding to the honour of the profession and the good of society, as well as their own advantage.

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M I D W I F E R Y.

BOOK I.

C H A P. I.

The structure and form of the pelvis, so far as it is necessary to be known in the practice of midwifery.

> SECT. I. OFTHEBONES.

HE pelvis is composed of three bones; the os facrum, with its appendix, known by the name of coceyx, and the two offa innominata. The facrum inchildren is divided into five diffinct bones and the coceyx into four cartilages; but, in adults, these last are formed into as many moveable bones, and the divisions of the facrum offisied fo as to become one bone.

Each os innominatum is, in infants, composed of three different bones, under the appellation of os *ilium*, *ifchium*, and *pubis*; which are joined to one another at the acetabulum or cavity that receives the round head of the thigh-bone. This composition is in the point of figure, fo irregular, that although in adults the three are offisied into one bone, those different names are fill used, in order to diffinguish 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 firong 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 geltation, when all the parts of the abdomen are ftrongly preffed by the increafed uterus, an extraordinary quantity of mucus is fecreted, not only by the glands of the os internum and vagina, but alfo by those belonging to the cartilages and ligaments that connect the bones of the pelvis; by which means, the ligaments and eartilages are fostened and relaxed, and the bones are feparated from one another in time of labour. But, from experience and observation, I may venture to affert, that this feparation is by no means an usual fymptom, though fometimes it may happen; in which cafe the patient fuffers great pain, and continues lame in those parts for a confiderable time after delivery.

In fome women, indeed, a kind of obfeure motion may be perceived, when the child's head is forced into the pelvis by ftrong pains; the junctures of the facrum with the offa ilium, as well as that of the offa pubis, feem to yield a very little alternately, in order to accommodate themfelves to the fhape of the head, as it is fqueezed down and paffes through the pelvis; but the bones are not feparated to any confiderable diffance. See part ii. collect. i. No. 1.

The coccyx is moveable at its connection with the facrum; as are alfo the four bones that compose it, in their articulations one with another; and this motion continues in adults, as well as in those 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, because they undergo a gentle motion at every excretion of the faces, which helps to preferve their mobility. See part ii. collect. i. No. 2.

SECT. II.

HE 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 triangle, the pofferior part forms one fide, and the offa pubis conflitute the oppofite ang e; fo that, behind, it is composed of the broad part of the facrum, where it joins with the last vertebra of the loins; on each fide, by the inferior parts of the ilia; and before, 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 defeend on each fide to join with thofe that rife from the ifchia; by which conjunction the foramen magnum ifchii is formed on each fide.

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

IN the confideration 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 fore-part, commonly amounts to four inches and one quarter; and from one fide to the other, the diftance is five 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 reverie of this calculation, when the os coccygis is preffed backwards by the head of the child; child; becaufe, in that cafe, the diffance between the coccyx and the lower part of the os pubis is near five inches; whereas the inferior and pofferior 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 occa² fioned 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 measured from the brim, being three times deeper than at the pubes on the fore part, answers the fame purpose as if it were wider from the back to the fore part, than from fide to fide; becaufe, by the time that the child's head is come down to the lower part of the pelvis, and the forehead turned back to the concavity formed by the os facrum and coccygis, part of the os occipitis is dome 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 last vertebra of the loins, to the lower end of the coccyx, is about five inches in a straight line; but when this appendix is stretched outward and backward, the distance will be more.

The depth from the fides to the brim toward its fore part, to the lower parts of theifchia, is four inches; and from the upper to the lower parts of the offa pubis, where they join, the diffance is no more than two inches; fo that, in the dimensions 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 shape of the infide of the pelvis to be neglected 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 coccyx to the middle of the facrum, the fweep nearly reprefents a femicircle; and from thence the bone flopes upward 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; 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 each fide gives paffage and lodgement to a mulcle, veffels, nerves, &c. At its lower part, the coccygaus mufcle and ligament above mentioned are ftretched acrofs from bone to bone; and this ligament is on the outfide ftrengthened with another ftrong expansion, rifing from the tuberofity of the ifchium, and fixed into the edge of the facrum and coccyx. All these parts yield and ftretch, forming a concave equal to that of the facrum, when the fore or hind head of the child is pushed 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 almost perpendicular, or rather inclining a little backward; fo that the infide of the bason is bent into a concave behind, and descends in almost a straight line before; while the ilia flope outward as they rife, and the vertebræ of the loins turn backward making an obtuse angle with the facrum.

On the whole, it is of the utmost confequence to know that the brim of the pelvis is wider from fide to fide than from the back to the f re part; but that, at the under part of the basion, the dimensions are the reverse of this proportion; and that the back part, in point of depth, is to the fore part as three to one; and to the fides as three to two.

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Though those dimensions obtain in a well-shaped pelvis, they fometimes vary in different women; and the reason 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.

THE pelvis in decrepit women is not always difforted; becaufe the diffortion of the fpine, in many women, does not happen till the age of eight, ten, twelve, or fourteen; when, being tall and flender, it is occafioned, by mifmanagement in their drefs, lying too much on one fide, and other accidents; without having any effect upon the pelvis, the fhape of which is

by that time afcertained. By most of those who have been ricketty in their infancy, whether they continue little and deformed, or, recovering of that difease, grow up to be tall stately women, are commonly narrow and distorted in the pelvis, and confequently subject to tedious and difficult labours; for, as the pelvis is more or less distorted, the labour is more or less dangerous and difficult.

In ricketty children, the bones are foft and flexible; and as they cannot run about and exercise themselves like those of a more hardy make, the pelvis, in fitting upon stools or the nurse's knees, is, by the weight of the head and body, often bent and distorted 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 facrum is forced outward; while the upper part of the fame bone is turned forward with the last vertebra of the loins, approaching too near to the upper part of the pubes; fo that the diffance, in fome women, from the back to the fore part of the brim, is not above three inches; in others, no more than two; and fometimes, though facely, not above one inch and a half. See collect. i. No. 3. tab. iii. xxvii. xxvii.

In others, the lower vertebra of the loins with theupper end of the facrum, jut inward and to one fide; the offa pubis, inflead of being inwardly concave, are fometimes convex; and the lower part of each ifchium fo near to one another, that the diffance, inflead of four inches and one quarter, will not amount to more than three, and in fome cafes not fo much. See colleft. i. No. 4.

Sometimes the vertebræ that compose the facrum ride one another, and form a large protuberance in that part which ought to be concave; but the most common circumstance of distortion is the jutting forward of the last vertebra of the loins with the upper end of the facrum, forming a more acute angle with the fpine; and in this part of the passage the head most commonly flicks. See collect. i. No. 5.

THE pelvis in women is wider than in men, the ilia fpreading more outward, in order to fulfaist and allow free fpace for the firstching of the uterus, the facrum is more concave; and the processes of the offa pubis, at their junction with the ifchia, are not for near to one another.

In order to demonstrate the advantage of knowing the wideness, depth, and figure of the infide of a well-formed pelvis, it will be necessary to afcertain the dimensions of the head of the child, and the manner of its passage in a natural birth.

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The heads of those children that have passed cafily through a large pelvis, as well as of those that have been brought by the feet, without having fuffered any alteration in point of shape by the uncommon circumstances of the labour; I fay, fuch heads are commonly about an inch narrower from ear to ear, than 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 fpace between the fontanel 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 most laborious cafes, when the head is fqueezed along with great force, we find it prefled into a very long oblong form, the longest axis of which extends from the face to the vertex. From whence it appears, that the crown or vertex is the first part that is prefled down, because in the general preflure, the bones at that part of the skull make the least refistance, and the face is always turned upward (fee tab. xxvii. xxviii.) Sometimes, indeed, this lengthening or protuberance is found at a little distance from the vertex backward or forward, or on either fide; and fometimes (though very feldom) the fontanel, or forehead prefents; in which cafe they protuberate, while the vertex is prefled and remains quite flat; but these two instances do not occur more than once in fifty or an hundred cafes 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 diffinguifhed 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 fealp be very much fwelled, diffinguifh the occiput at its junction with the parietal bones by the angle, which is more obtufe than those that are formed at that part of the fkull; befides, in this polition, 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 fpace below the offa pubis, which is two inches higher than the ifchium, while at the fame time the forehead turns into the hollow of the facrum.

This, therefore, is the manner of its progression ; when the head first 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 widest part of the head is turned to the widest part of the pelvis, and the narrow part of the head from ear to car applied to the narrow part of the pelvis, between the pubes and the facrum. (See tab. xiii. xvi.) The head being fqueczed along the vertex, defeends to the lower part of the ischium, where the pelvis becoming narrower at the fides, the wide part of the head can proceed no farther in the fame line of direction; but the ifchium being much lower than the offa pubis, the hind-head is forced in below this last bone, where there is least resistance. The forchead then turns into the hollow at the lower end of the facrum, and now again the narrow part of the head is turned to the narrow part of the pelvis. (See tab. xiv. xvii.) The os pubis being only two inches deep, 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 share-bone; the wide part of the head being now betwixt the os pubis and the coccyx, which, being pushed backward, opens the widest space below.

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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 these 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 reverse in point of dimension; that the pelvis is much shallower 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 these things will convey a distinct idea of the manner in which the head is to be brought along in laborious cases; on what occasions the use of the force may be necessary; and when the method must be varied, as the form of the head or pelvis may chance to vary from our defcription.

Although the position 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 posture of the child in utero : for when the waters are in fmall quantity, or the membranes broke, fo that the body of the child is close confined by the womb, if the fore-parts are toward the belly of the mother, that polition may hinder the head from making the proper turns as it is pulhed 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 presents itself with the forchead to one fide of the brim, and the hindhead to the other, when the head is forced down by the increasing 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 first 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, instead of the vertex or forehead, the fontanel fhould first appear, the space from the forehead to the crown will then rife in form of a fow's back; and in all these cases, the head is brought along with greater difficulty than in those where the vertex is first produced : and, in all laborious cafes, the vertex comes down, and is lengthened in form of a fugar-loaf, nine-and-forty times in fifty initances. When the forehead prefents, the face is fometimes preffed forward. See tab. xxii. If the relvis be as wide from the back to the fore-part, as from fide to fide (though this feldom happens) the crown may be pushed 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 these uncommon positions are attended with difficulty.

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C H A P. II.

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

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SECT. I.

THE EXTERNAL PARTS AND VAGINA.

HE mons veneris is fituated at the upper part of the pubes, from which also begin the labia pudendi, ftretching down as far as the lower edge, where the frænum labiorum or fourchette is formed.

The clitoris with its præputium is found between the labia, or middle and fore part of the pubes; and from the lower part of the clitoris, the nymphæ rifing, fpread outward and downward to the fides of the os externum, forming a kind of fulcus or furrow, called the *foffa magua* or *navicu aris*, for the direction of the penis in coition, or the finger in touching, into the vagina. See collect. ii. No. 1, 2.

The meatus urinarius is immediately below the under edge of the fymphyfis of the offa pubis, and at the upper part of the os externum, which is the orifice of the vagina, fituated immediately below the faid bones of the pubes; the lower edge of which bones is equal to the lower edge of the famum or fourchette, which bounds the inferior part of the foffa magna and os externum, reftraining it as if with a bridle.

The perinæum extends from this border to the anus, being about one inch or one and a half in length; the wrinkled part of the anus is about threequarters 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, adipofe membrane, and the muscles levatores ani; while within these are contained the muscles belonging to the clitoris, mouth of the bladder, os externum, and anus.

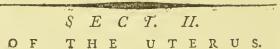
In young children, there is a thin membrane called the *hymen*, extended over the lower part of the os externum, reprefenting the figure of a crefcent, the concave and open fide being turned toward the meatus urinarius. In fome, the middle of this concave is attached to the lower part of the meatus,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

culæ myrtiformes. See collect. ii. No. 3, 4, 5. On each fide of the meatus urinarius are two finall lacunæ 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 force; and fometimes, 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 flietched to its full extent, it may be about five, fix, or feven inches long, and two in width, according to the difference of flature in different women; but, when the pterus hangs down in the vagina, the length will not be more than two or three three inches; and it may be firetched 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 those 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 also continued along the infide of the uterus, constituting the internal membrane of the neck and fundus, which is likewife full of plicæ, especially in young subjects. See tab. v. vi.

As to the different names of those parts, the book of Schurigius, published at Dresden in the year 1729, may be consulted. The entry of the vagina is commonly called the *sphincter waginæ*, and the mouth of the womb is often distinguished by the appellation of os tincæ; but, as the mention of these parts will frequently occur in the course of this treatise, I shall, in order to avoid confusion or mistake, call the first os externum, the other os internum, through the whole book.



THE uterus is about three inches long from the os internum to the upper part of the fundus, and one inch in thickness 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 quarters, 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 fmaller in young women.

The outfide fhape of the uterus in fome measure refembles a flattened cucurbit, or that kind of spear 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. These tubes are about three inches long, and fo narrow at their entrance from the uterus, as fearcely to admit a hog's briftle; but the cavity of each turns gradually wider, and ends in an openmouth or fphincter, from the brim of which is expanded the fimbria or morfus diaboli, that generally bears the likeness of jagged leaves, and in some refembles an hand with membranous fingers, which is supposed to grafp the ovum when ripe and ready to drop from the ovarium.

The uterus is formed first of the infide membrane that rifes from the vagina, and lines all the interior part of the womb. Immediately above this coat is the thick fubflance of the uterus, composed of a plexus of arteries, lymphatics, veins, and nerves; and the vessels on its surface, when injected, seem to run in contorted lines. It appears to be of the fame glandular texture (though not so compact) as that of the breasts, without any muscular fibres, except such as compose the coats of the vessels; neither is there any necessity for that muscle which Ruysch pretended to discover at the fundus, for the convenience of forcing off the placenta; because this cake as frequently adheres to other parts of the womb as to the fundus.

The fubftance of the uterus appears more compact and pale than that of muscles; or if it be muscular, at least the fibres are more close, and more intricately disposed, than in other muscular parts. The blood-vessels of the womb, in the virgin or unimpregnated flate, are very fmall, except just at their approach to its fides, at the roots of the ligamenta lata. But as foon almost as they enter its fubstance, they are dispersed into fuch numbers of smaller branches through the whole, that, when it is cut, we can observe but few, and those very small, orifices, much less any cavities that deferve the name of finufes. Indeed, when this part is minutely injected, it seems to be almost nothing but a mass of vessels; a circumstance common to it with other parts of the body; and anatomists are agreed, that the greater number of veffels visible in fuch nice injections, are those through which the ferum or lymph of the blood circulates 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 subject. tab. v.

When the uterus firetches in time of geftation, the veffels are proportionally dilated by an increase of the fluid they contain; fo that, at the time of delivery, fome of them are capacious enough to admit the end of the little finger. Yet the fubftance of the womb, for the most part, instead of growing thinner, as Mauriceau alledges, or thicker, according to Daventer, continues of its natural thickness during the whole term of pregnancy; and this equality is maintained by the gradual diffension of the veffels that enter into its composition. In time of labour, indeed, as the waters are difcharged, the uterus contracts itself and grows thicker; and the refistance ceasing at the delivery of the child and after-birth, it becomes fmaller and fmaller, until it has nearly refumed its natural dimensions. 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 flate of diffention. 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 flretched, elongated, and feemed to recede from one another, are alfo contracted by 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 again fo compacted, that they, and even the veffels, are fcarce difcernible.

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 lower 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 covers it every where above, and is connected with its fubftance by a very thin cellular membrane; as for the peritonæum in itfelf, it is a fmooth membranous expansion, that covers all the infide of the abdomen, and gives external coats to all the vifeera contained in that cavity. On the fore part it lines the muscles of the abdomen and diaphragma; buckward, it covers the abdominal vifeera in general, the aorta and vena cava defeendens, the kidneys, ureters, and spermatic veffels, the external and internal iliacs, the pfoas and muscles that cover the infide of the ilium, whence it rifes double, and forms the digamenta lata, in which are contained the ovaria and and fallopian tubes. This duplicature, where it meets in the middle, envelopes all the uterus, as before obferved, and gives a covering to the round ligaments that rife from each fide of the fundus uteri, and are inferted or loft about the upper and external part of the pubes and groin. The peritonæum is alfo reflected from the fore part of the uterus over the upper part of the bladder; and upon the back part of the uterus it defeends even upon the vagina, from which it is again reflected upward over the rectum. By thefe attachments, efpecially the broad and round ligaments, the uterus is kept between the vefica urinaria and rectum, loofely fufpended in the vagina, within two or three inches of the os externam; the epiploon and intefa tines occupy the upper and fore part of the pelvis, by which means the nterus is preffed downward and backward to the lower and concave part of the facrum. See tab. v. fig. 2. As the vesica urinaria fills and fretches with urine, the viscera are raised ; 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 back part. The os uteri is also higher or lower according as the ligaments are more or less lax or tensc. In coition, the uterus yields three or four inches to the preffure of the penis, having a free motion upward and downward, fo that the reciprocal ofcillation, which is permitted by this contrivance, increases the mutual titillation and pleasure. See tab. v.

The ligaments undergo no extraordinary extension in time of uterine geftation, because they fink down two inches with the uterus in an unimpregnated state; and when the fundus rifes, they will be raised, at the same time, to the height of not only these two inches, but as much more, without being stretched in the least. Besides, as the uterus rifes still upward, the sof it approach the ilia, from whence the broad ligaments take their origin; and this circumstance is equal to an acquisition of three inches more; so that upon the whole, these ligaments feem to be very little stretched, even in the last month of pregnancy.

SECT. III.

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

THE ovaria are two fmall oval bodies, one of which is placed behind each fallopian tube, fuppofed to be little more than a clufter of ova, whence they derive their prefent name; for, by ancient authors, they are mentioned by the appellation of the female tefficles. Each ovarium is about one inch in length, half as broad, and one quarter of an inch in thicknefs; more convex on the fore than on the back part, of a fmooth furface, covered with the peritonxum. See tab. v.

The blood-veffels are, first, the spermatic arteries and veins, which have nearly the same origin as those in men, are mostly distributed upon the ovaria and tubes, and at the upper part of the uterus, communicate with the hypogastrics; from the branches of which, the body of the womb is furnished. All these arteries analtomose, and are supposed to detach small ramifications that open into the cavity of the uterus. The veins are large, communicate one with another, with the haemorrhoidals and vena portarum, and have no valves.

The ligamenta rotunda are two valcular ropes, compoled of veins and arteries inclosed in the duplicature of the ligamenta lata, feemingly arising more

from the crural artery and vein, from whence they are extended to the fides of the fundus uteri.

The nerves come from the intercostals, lumbares, and facri, as defcribed in Boerhaave's Inftitutes, and Winflow's Anatomy.

СНАР. IIÍ.

A DESCRIPTION OF THE OWNER OF THE ADDRESS OF THE ADDRES

Of the Catamenia, and Fluor Albus, in an unimpregnated State:

SECT. I.

HE uterus; according to fome, and all the parts fubfervient to generation, arrive at full growth about the according veffels are then fufficiently dilated, and those that end in the cavity of the womb, fo diffended with blood, that their mouths are forced open, they empty themfelves gradually; 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 menfes, particularly by Doctors Friend, Simpson, and Aftruc : the two last of whom, with many others, alledge, that there are finuses in the uterus, furnithed with fide-veffels opening into its cavity ; which finufes are gradually firetched 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 accumulated blood evacuated into the cavity of the womb: But if this was the cafe, the fame mechanism must prevail in other parts of the body, through which the like periodical difeharge is made, when the úterus is obstructed; as from the nofe; hairy-fealp; lungs, stomach, mefenteric and hæmorrhoidal veffels, and even through the fkin of the legs, and other parts of the body: Belides, fuch an accumulation in large finufes, though the blood were not entirely stagnated, would produce a vifcofity like that which obtains in the rheumatifm and other inflammatory diffempers.

Those who live in hot climates, are frequently visited with the menses at the age of twelve; and women who are kept warm, and live delicately, undergo this discharge earlier than those who use a different regimen : and if the catamenia do not flow at the flated time, the patient is foon after feized with the chlorofis; unlefs fome other evacuation happens in lieu of the menses.

They commonly ceafe to flow about the age of forty-five, except in those 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 continue to be gradually fretched, until, by their number, capacity, and length, this momentum is diffipated, fo as to become no more than equal to the refiftance. 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 evacuation is no longer ne ceffary, nor has the blood force enough to make good its wonted paffage into the

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cavity of the womb. In the fame manner are produced the fymptoms of old age.

The catamenia are, therefore, no more than a periodical difcharge of that fuperplus of blood which is collected through the month, and, towards the crifis, attended with pains in the loins, breat, 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 being, according to Hippocrates, two *beminæ*; equal, by the computation of fome, to eighteen or twenty, and in the opinion of others, to twentyfour ounces: but this muft certainly be a miftake, for they rarely exceed four ounces, except when they flow in too great quantity.

Women that are delicately kept, and plentifully fed, have this difcharge more frequently, and in greater quantity, than those who are inured to much exercise, or subject to copious perfpiration: yet both these constitutions 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 exhaust the strength of the patient, it will be necessary to prefcribe bleeding before the return of the period; reft, cooling and astringent medicines, not only taken internally, but likewife applied externally, and injected into the vagina. 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 muft be leffened by plentiful bleeding, and repeated purges, and the difcharge follicited by warm baths, fumigation, and exercife. But if the patient has been 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 conflictution be already weakened; 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 ftomachic ingredients, affifted with proper diet and exercife, according to the preferiptions to be found in Hoffman, Friend's Emmenologia, and Shaw's Practice of Phyfic. See collect. iv. No. 3. 4.

OF THE FLUOR ALBUS.

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THE infide mem branc of the uterus, according to Aftruc, is thick-fet with fmall glands, which he calls the colatura lactea. Thefe, in an unimpregnated uterus, feparate a mucus that lubricates the cavity and canal of the neck, by which means 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 well as from the vagina; and this excels, when it happens from plenitude, in those who feed plentifully without taking fufficient exercise, is often remedied by general evacuation, fuch as venæfection, emetics, cathartics, and a more abstemious diet, with a greater fhare of exercise than usual. But the cure is more difficult when the complaint is of long flanding, and proceeds from a bad habit, the constitution being weakened by the inordinate discharge. In this case, it will be necessary to use repeated emetics, gentle exercise, and all the medicines that contribute to flrengthen a lax habit of body; or, if the difemper be cancerous, it must be palliated with anodynes. As to the form

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of prescription in all these cases, Hoffman may be confulted. See collect. iv. No. 5, 6.

THE minutiæ, or first principles of bodies, being without the sphere of human comprehension, all that we know is by the observation of their effects; fo that the modus of conception is altogether uncertain, efpecially in the human species, because opportunities of opening pregnant women, so seldom occur.

Although the knowledge of this operation is not abfolutely neceffary for the practice of midwifery, an investigation of it may not only gratify the curious, but also promote farther enquiries; in the course of which, many material difcoveries may be made, in the fame manner as many valuable compositions in chymistry were found out in the last century, by those who exercifed themfelves in fearch of the philosophers' ftone.

From the time of Hippocrates, to the fixteenth century, it was generally believed that the embryo and fecundines were formed by the mixture of the male and female femen in the uterus; but during the last hundred years, anatomy received great improvements by the frequent diffection of human bodies; and in some female subjects, the foctus was found in one of the fallopian tubes; in others, it was difcovered in the abdomen, with the placenta adhering to the furface of the viscera. See collect. v. Malphigius and others, between the years 1650 and 1690, wrote ex-

prefsly upon the incubation of eggs, their formation, and the gradual increase of oviparous animals. The great Harvey observed the progress 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 observations he had made. Ruysch, Aldes, Needham, Steno, Kerkringius, Swammerdam, Bartholine the fon, and Drelincourt, employed themfelves in the fame enquiries; and in confequence of their different remarks, a variety of theorics have been erected; yet all of them have been subject to many objections; and even the following, though the most probable, is still very uncertain :

When the parts in women, fubfervient to generation, attain their full growth, one or more of the ova being brought to maturity, that part of the peritonzum which covers the ovarium begins to ftretch; the nervous fibres are accordingly affected, and contract themfelves fo as to bring the fimbria of the fallopian tube in close contact with the ripe ovum; by which mechanism, this last is squeezed out of its nidus or husk into the cavity of the tube, through which it is conveyed into the uterus by a vermicular or peristaltic motion; and if it is not immediately impreguated with an animalcule of the male femen, must be diffolved and lost, because it is now detached from the veffels of the ovarium, and has no vis vitæ 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-firing 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 distended in a globular form by a clear serous fluid, or thin lymph.

As for the male femen, according to the observation of the celebrated Lecuwenhoek, it abounds with animalcula, that fwim about in it like for many

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many tadpoles; and thefe are larger and more vigorous the longer the femen hath remained in the vificulæ feminales.

The parts of both male and female being thus brought to maturity, the following circumstances are supposed to happen in coition, especially in those embraces which immediately follow the evacuation of the menses:

In the woman, the friction of the penis in the contracted vagina, the repeated preffure and flocks against the external parts, the alternate motion upward and downward of the uterus, with its appendages the ovaria, 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 analogous glands, as well as from those of the uterus and fallopian tubes. The fimbria belonging to one of which, now firmly grafps the ripened ovum, which at the fame instant 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 convultive power. When the two matured principles are thus mingled, one of the animalcula infinuates itfelf into the ovum, and is joined with its belly 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 vitæ 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 feerned 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 increase of the impregnated mafs.

Of the femen that is injected or abforded into the uterus, part is mixed with the fluid fecteted 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 thereby 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 been actually found in the cavity of the tube and abdomen, without any marks of exclusion from the uterus; befides other prefumptions that will be mentioned when we come to treat of the nutrition of the foetus; I fay, notwithftanding the plaufibility of the feheme, it is attended with circumftances which are hitherto inexplicable; namely, the manner in which the animalculum gains admiffion into the ovum, either while it remains in the ovarium, fojourns in the tube, or is deposited in the fundus uteri; and the method by which the vefiels of the navel-firing are inofculated with thofe of the animalculum. Indeed, thefe points are fo intricate, that every different theorift has flarted different opinions concerning them, fome of which are rather jocular than inftructive.

SECT. III.

OF THE INCREASE OF THE UTERUS AFTER CONCEPTION.

IT is fuppofed that the ovum finitian a fluid, which it abforbs fo as to increase gradually in magnitude till it comes in contact with all the inner furface of the fundus; and this being diffended in proportion to the augmentation of its contents, the upper part of the neck begins alfo to be firetched.

About the third month of geftation, the ovum in bignefs equals a goofeegg; and then nearly one-fourth of the neck at its upper part is diffended 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 navel; 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 diffended. See tab. v, vi, vii, viii.

Now that the whole fubftance of the uterus is ftretched, the neck and os internum, which were at first the ftrongest, become the weakest part of the womb, and the stretching force being still continued by the increase of the focus and fecundines, which are extended by the inclosed 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 uneasy fensation; to alleviate which, the woman squeezes her uterus by contracting the abdominal muscles, and at the same time filling the lungs with air, by which the diaphragm is kept down; the pain being rather increased than abated by this straining, is communicated to all the neighbouring parts to which the ligaments and vesses are attached, such as the back, loins, and infide of the thighs; and by this compression of the uterus, the waters and membranes are stab. ix, x, xi, xii.

The woman being unable to continue this effort for any length of time, from the violence of the pain it occasions, and the ftrength of the muscles being thereby a little exhausted and impaired, the contracting force abates; the tension of the ostincæ 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 increasing force renews the ftretching pains, irritation, and fomething like a tenefinus at the os uteri; the compression of the womb again takes place, and the internal mouth is a little more dilated, either by the pressure 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 fœtus. See tab. xii. xiii. xiv.

In this manner the labour-pains begin, and continue to return periodically, growing ftronger and more frequent until the os uteri is fully dilated, and the membranes are depressed and broke; fo that the waters are discharged, the uterus contracts, and, with the affistance of the muscles, the child is forced along and delivered.

Although this account may be liable to objections, efpecially in those cafes when the child is delivered before the full time, it nevertheless feems more probable than that hypothesis which imputes the labour-pains to the motion

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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 are delivered as eafily as those that come alive, except when the birth is retarded by the body's being fwelled to an extraordinary fize.

SECT. IV.

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 twelve, and fometimes fixteen pounds; by which calculation it would appear that the progrefs of the fœtus 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 diffinctly formed, generally in the third month, and from that period to delivery, is diftinguished by the appellation of *fætus*.

WHEN 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 placentæ are altogether diftinct, and at other times they form but one cake.

Yet, by an inftance 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-ftrings 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 diffinct, they are called *twins*, and *monflers* when they are joined together; the first (according to the foregoing theory) are produced when different animalcula impregnate different ova; and the last are engendered when two or more animalcula introduce themfelves, and are included in one ovum. See tab. x.

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 ovum fills the whole fundus uteri, and the gelatinous fubflance already mentioned, locks up the neck and os internum, fo as to hinder more femen from entering the womb and impregnating a fecond egg in any fublequent coition. Wherefore, in all those cases which gave rife to this fuppolition, it may be taken for granted that the woman was actually with child of twins, one of which lying near the os internum, might chance to die and mortify, fo as that the membranes give way, and the dead foctus is discharged, while the other remains in the uterus, and is delivered at the full time. On the other hand, by fome accident, the first and largest may be born fome days or weeks before the full time, and afterwards the os tincæ coutract fo as to detain the other till the due period. At other times the child that lies next to the fundus is the fmallest, and follows after the birth of the other, fometimes dead and putrified, and fometimes in an emaciated condition. See collect. vi.

A MISCARRIAGE 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 *expulsion*, the embryo and fecundines being fill fo fmall that the woman is in no great danger from violent flooding.

If the 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 foctus was increased in bulk, and the neck of the womb is not yet fully ftretched; befides, thould the child be born alive, it will be fo fmall and tender that it will not fuck, and fcarce 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 diffinctions, if the lofes her burthen at any time from conception to the feventh or eighth, or even in the ninth month, we now fay indiferiminately, the has mifearried.

Hippocrates alledges that a child born in the feventh month, fometimes lives; whereas if it comes 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 unfuccefsful attempt, and therefore not likely to live; whereas, fhould the fecond effort be deferred till the ninth, the fœtus will by that time be fufficiently recovered from the fatigue it had undergone in the feventh. Experience, however, contradicts this affertion; for the older the child is, we find it always (*cæteris paribus*) the ftronger, confequently the more hardy and eafily nurfed, neither is there any fufficient reafon for adhering to the opinion of Pythagoras on this fubject, 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 last discharge of the catamenia; yet in some, though very few, uterine gestation exceeds that period; and as this is a possible case, we ought always to judge on the charitable fide, in the persuasion that it is better feveral guilty persons should escape, than one innocent person suffer in point of reputation. See collect, vii.

SECT. VIII.

OF FALSE CONCEPTIONS AND MOLES.

TT was formerly supposed, that if the parts of the embryo and secundines were not separated and diffinctly formed from the mixture of the male and female femen, they formed a mass, which, when discharged before the fourth month, was called a falfe conception; if it continued longer in the uterus fo as to increase in magnitude, it went under the denomination of a mola. But these things are now to be accounted for in a more probable and certain manner. Should the embryo die (fuppofe in the first 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 first month the embryo is fo fmall and tender, that this diffolution will be performed in twelve hours; in the fccond 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 laminæ round the ovum, to the furface of which they adhere fo ftrongly, that it is very difficult to diffinguifh 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 closely contracted, that the fibrous part of the blood is retained 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 miltaken for a falle 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 *mola*; 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 ceafed to flow for fome time in elderly women; and return with pain, fuch a fymptoin is frequently the forerunner of a cancer; before or after this happens, fometimes a large flefh-like fubftance will be difcharged with great pain, refembling that of labour; and up on examination, appears to be no more than the fibrous part of the blood; which affumes that form by being long preffed in the uterus or vagina: See collect. viii.

In this place it will not be amifs to obferve, that the glands of the uterus and vagina will fometimes increase and distend the adjacent parts to a furprising degree. If, for example, one of the glands of the uterus be fo obstructed as that there is a preffure on the returning vein and excretory duct, the arterial blood will gr dually ftretch the fmaller veffels, and confequently increase the fize of the gland, which will grow larger and larger, as long as the force of the impelled fluid is greater than the refutance of the veffels that contain it; by which means a very fmall gland will be enlarged to a great bulk; and the uterus gradually ftretched as in uterine gestation, though the progrefs may be fo flow as to be protracted for years inftead of months. Neverthelefs the os internum will be dilated, and the gland (if not too large to pafs) will be fqueezed into the vagina, provided it adheres to the uterus, 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 should the gland take

take its rife in the vagina hard by the mouth of the womb, it will fhew itfelf still fooner; and a ligature may be easily 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 greatest difficulty occurs when the gland is confined to the uterus, being too much enlarged to pass through the os internum.

Sometimes all or most of the glands of the uterus are thus affected, and augment the womb to fuch a degree, that it will weigh a great many pounds, and the woman is deftroyed by its preffure upon the furrounding parts; but thould this indolent ftate of the tumour be altered by any accident that will produce irritation and inflammation, the parts will grow feirrhous, and a cancer enfue.

This misfortune for the most part happens to women when their men-Arual evacuations leave them; and formctimes (though feldom) to childbearing women, in confequence of fevere labour.

Some people have affirmed that the placenta, being left in the uterus 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 dimensions, and sometimes into. a fubstance almost demi-cartilaginous; for, after the death or delivery of the child, the fecundines receive no farther increase or growth. Dropfies and hydatides are allo supposed to be formed in the uterus, and discharged from thence together with air or wind. The ovaria are fometimes affected in the fame manner, are inflamed, impollumate, 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.

OF THE PLACENTA AND MEMBRANES.

I HAVE already obferved, that the ovum is formed of the placenta with the chorion and amnion, which ere cluber to be the first of the placenta with the chorion and amnion, which are globularly diftended by the inclosed waters that furround the child. The placenta is commonly of a round figure, fomewhat refembling an oat-cake, about fix inches in diameter, and one inclu thick in the middle, growing a little thinner towards the circumfcrence; it is composed of veins and arteries, which are divided into an infinite number of small branches, the venous parts of which unite in one large tube, called the umbilical wein, which brings back the blood, and is supposed to carry along the nutritive fluid from the vessels of the chorion and placenta, to the child, whofe belly it perforates at the navel; from thence paffing into the liver, where it communicates with the vend portarum and cava. It is furnished with two arterics; which arise from the internal iliacs of the child, 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 line, twining around the vein, in conjunction with which they 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 arteries, on their arrival at the inner furface of the placenta, are divided and fubdivided into minute branches, which at last end in small capillaries, that inofculate with the veirts of the fame order. Thefe arteries, together with the umbilical vein, are 'H' fuppofed

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 fcems to be confirmed by the following experiments:-If the child and placenta are both delivered fuddenly, or the last immediately after the first, and if the child, though alive, does not yet breathe, the blood may be yet felt circulating fometimes flowly, at other times with great 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 arteries 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 observed to flow, although it be lying in a bafon among warm water. As the child begins to breathe, the eirculation, though it was weak before, immediately grows ftronger and ftronger; and then in a few minutes the pulfation in the navelftring becomes more languid, and at last entirely stops. If after the child is delivered, and the navel-string cut, provided the placenta adheres firmly to the uterus, which is thereby kept extended ; or (if the womb is ftill diftended by another child) no more blood flows from the umbilical veffels than what feemed to be contained in them at the inftant 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, especially 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 commodioufly to the inner furface of the uterus, to which it adheres, fo as to prevent its being feparated by any flock or blows upon the abdomen, unlefs when violent.

These groups of veins and arteries which enter into the composition of the placenta, receive external coats from the chorion, which is the outward membrane of the ovum, 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 these two in conjunction confitute the whole external furface of the ovum. Some indeed alledge, that these are enveloped with a cribriform or cellular substance, by which they feem to adhere, by contact only, to the uterus; and that the inner membrane of the womb is full of little glands, whole excretory ducts, opening into the fundus and neck, fecrete a foft thin mucus (as formerly observed) to lubricate the whole cavity of the uterus, which beginning to ftretch in time of gestation, the vessels that compose these glands are also distended ; confequently a greater quantity of this mucus is feparated and retained in this supposed eribriform or cellular substance, the absorbing vessels of which, take it in and convey it along the veins for the nourifhment of the child. The womb being therefore diffended in proportion to the increase of the child, those glands are also proportionally enlarged; by which means a larger quantity of the fluid is feparated, becaufe the nutriment of the child must be augmented in proportion to the progress of its growth; and this liquor undergoes an alteration in quality as well as quantity, being ehanged from a clear thin fluid into the more viscous confistence of milk. ln fome cafes, this mucus hath been difcharged from the uterus in time of pregnancy, and both mother and child weskened by the evacuation ; which may be occasioned by the chorion adhering too loofely, or being in one part actually feparated from the womb.

Formerly

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 flicking 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 delivered, 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 bladder being introduced at this opening, and inflated, when lying in water, will fhew the fhape and fize of the inner furface of the womb, and plainly different to which the placenta adhered.

The chorion is, on the infide, lincd with the amnion, which is a thin transparent membrane, without any veffels 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 furnished by lymphatic vessels that open into the inner furface of the amnion. If this liquid is neither absorbed into the body of the fœtus, nor taken into the stomach by fustion at the mouth, there must be absorbing vessels in this membrane, in the fame manner as in the abdomen and other cavities of the body, where there is a constant renovation of humidity.

The quantity of this fluid, in proportion to the fœtus, is much greater in the first than in the last month of gestation, 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 fœtus that weighs twelve pounds, is reckoned a large proportion, the quantity being often much less; nay, fometimes there is very little or none at all.

In most animals of the brute species, there is a third membrane, called *allantois*, which refembles a long and wide blind-gut, and contains the urine of the fœtus. 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 vessels, depositing the urine in this refervoir, which is attached to its other extremity. This bag hath not yet been certainly discovered in the human fœtus, the urachus of which, though plainly perceivable; feems hitherto to be quite imperforated.

From the foregoing obfervations upon nutrition, it feems probable, that the foctus is rather nourithed by the abforption of the nutritive fluid into the veffels of the placenta and chorion, than from the red blood circulated in full flrcam from the arteries of the uterus to the veins of the placenta, and returned by the arteries of the laft to the veins of the first, 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 anfwered; namely, that if the placenta adheres to the lower part of the uterus, when the os internum begins 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 confequence follows a feparation of the chorion.

The new theorifts indeed obferve, that there is no necessfity for a fupply of red blood from the mother; because the circulating force in the veffels of the foctus produces heat and motion fufficient to endue the fluids with a fanguine colour; that neither is there occasion for returning and refining this blood in the lungs of the moher, because that

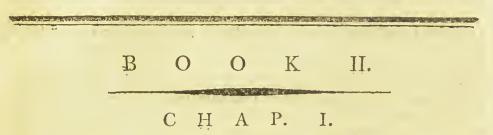
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office

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office is fufficiently performed in the placenta, until the fœtus 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 answer the occasions of the fœtus. 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 increases in proportion to the growth of the contained embryo or fœtus, without any fupply from the hen.

On the whole, the opinions broached upon the nutrition of the embryo and foctus in utero have been various, as well as those that are adoptel concerning the modus of conception.



Of the Difeases incident to pregnant Women; which if not carefully prevented or removed, may be of dangerous Confequence both to Mother and Child.

OF NAUSEA AND VOMITING.

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

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 flomach of fuperfluous nourifhment, thereby carrying off or preventing too great a turgency in the veffels of the vifcera and uterus; and by creating a kind of flraining or nifus in the parts, which will affift the fundus and neck of the womb in flretching. Neverthelefs, if the flraining is too great, it may endanger a mifcarriage.

Perhaps this complaint is occafioned by a fulnefs of the veffels of the uterus, owing to obfructed 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 firetched by the increafe of the ovum, a tenfion of that part enfues, affecting the nerves of that vifcus, efpecially those that arife from the fympathetici maximi, and communicate with the plexus at the mouth of the ftomach. Whatever he the caufe, the complaint is beft relieved by bleeding more or lefs, according to the plethora and firength of the patient; and if the is coffive, by emollient clyfters and opening medicines, that will evacuate the hardened contents of the colon and rectum; fo that the vifcera will be rendered light and cafy, and the ftretching fulnefs of the veffels taken off. A light, nutritive

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nutritive, and spare diet, with moderate exercise, and a free open air, will conduce to the removal of this complaint. See collect. x. No. 1.

SECT. II.

OF THE DIFFICULTY IN MAKING WATER; COSTIVENESS; SWELLING OF THE HÆMORRHOIDS, LEGS, AND LABIA PUDENDI; AND THE DYS-PNŒA AND VOMITING AT 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 likewise raifed and turned backward toward the facrum, becaufe the fundus is inclined forward in its rife. The uterus, according to the different directions in which it extends, produces various complaints by its weight and preffure upon the adjacent parts, whether in the pelvis, or higher in the abdomen. In the fourth or fifth month, it prefies against the sphincter of the bladder in the pelvis, and produces a difficulty in making water, and fometimes (though feldom) a total fuppreffion. This complaint will happen, if the womb is funk too low in the vagina; or if the ovum, instead of adhering to the fundus, defcends into the wide part in the middle of the neck, which accordingly undergoes diffension. This disposition of the ovum is frequently the cause of abortion, becaufe the mouth and neck being in this cafe, from the ftretching, the weakest 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, last of all, stretched to the end of gestation, 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 neck turning fhorter and fhorter as the full time approaches.

But, as the firetching begins lower down in this than in a common cafe, the uterus must confequently prefs against all parts of the pelvis before it can rife above the brim; and this preflure fometimes produces an obstruction of urine and difficulty in going to flool; the general compression of all these parts, will be attended with a degree of inflammation in the fubstance of the uterus, the vagina, mouth of the bladder, and rectum; from whenee violent pains and a fever will ensue. In order to remove or alleviate these fymptoms, recours must be had to bleeding and clysters, the urine must be drawn off by the catheter, fomentations and warm baths be used, and this method occasionally repeated until the complaints abate; and they commonly vanish in confequence of the womb rifing higher, fo as to be supported 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 faces are hindered from passing, and by remaining too long in the guts are indurated, the fluid parts being abforbed. Hence arife violent ftraining at flool, and a compression of the womb, which threatens abortion. When the patient therefore has laboured under this fymptom for feveral days, let emollient, laxative, and gently-ftimulating clyfters be injected. But if the rectum be fo obftructed as that the injection cannot pass, suppositories are first to be introduced; for frequently, when the colon and rectum are compressed by the uterus, the peristaltic motion

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is weakened and impeded, fo that the guts cannot expel their contents; in which cafe, the fuppofitory, by irritation, quickens this faculty, and in diffolving, lubricates the parts, thereby facilitating the difcharge of the hardened faces. This previous meafure being taken, a clyfter ought to be injected, in order to diffolve the collected and indurated contents of the colon, as well as to lubricate and ftimulate the infide of that inteffine, fo as to effect a general evacuation; and for this purpofe, a fyringe fhould be ufed inftead of a bladder, that the injection may be thrown up with greater efficacy and force.

These clyfters ought to be repeated until the hardened fæces are altogether brought away, and the last discharge appears of a soft confistence. Neither ought the preferiber to trust to the reports of the patient or nurse, but to his own fenses, in examining the effects of these injections; for, if the complaint has continued feveral days, a large quantity of indurated fæces ought to be discharged. To avoid such inconvenience for the future, an emollient clyfter must be injected every fecond night; or, if the patient will not submit to this method, which is certainly the cafiest and best, recours must be had to those lenients mentioned at the latter end of this fection. For when the fæces are long retained, the air rarefies, expands, and flretches the colon, producing fevere colic pains; this being the method followed by nature, to difburthen herself when she is thus encumbered. See collect. x. No. and tab. vi. fig. 2.

The prefiure of the uterus upon the hæmorrhoidal and internal iliac veins, produces a turgency and tumefaction of all the parts below, fuch as the pudenda, vagina, anus, and even the os internum and neck of the womb. This tumefaction of the hæmorrhoidal veins, appears in those fwellings at the infide and outfide of the anus, which areknown by the name of the external and internal hæmorrhoids, or piles. This is a complaint to which women are naturally more fubject than the other fex; but it is always more violent at the time of pregnancy, when the fame method of cure may be adminiftered as that practifed at other times, though greater caution must he ufed in applying leeches to the parts; because, in this case, a great quantity of blood may be lost before the discharge can be restrained. See collect. x. No. 3.

About the latter end of the fifth or in the beginning of the fixth month, the uterus being firetched above the brim, and the fundus raifed to the middle fpace betwixt the os pubis and navel, is confiderably increased in weight; and even then (though much more fo near the full time) lies heavy upon the upper part of the brim, prefies upon the vertebræ of the loins and offa ilia, and, rifing ftill higher with an augmented force, gradually firetches the parietes of the abdomen, pufhing the inteftines upwards and to each fide.

The weight and preffure on the external iliae veins are attended with a furcharge or fullnefs in the returning veffels that come from the feet, legs, and thighs; and this tumefaction produces ædematous and inflammatory fwellings in these parts, together with varicous tumours in the veins, that fometimes come to fuppuration.

The fame weight and preffure occasion pains in the belly, back, and loins, effectially towards the end of the eighth or in the ninth month. If the urerus rifes too high, a dyfpneea or difficulty of breathing, and frequent vomitings, enfue; the first proceeds from the confinement of the usi nd diaphragm in refpiration, the liver and vifeera of the abdomen being

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being forced up into the thorax; and the last is occasioned by the extraordinary pressure upon the stomach. See 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 dyfpnœa and vomiting, are removed or palliated by the following method :- The patient, if the can bear fuch evacuations, is gene ally relieved by bleeding at the arm or ancle, to the amount of cight or ten ounces; but the quantity must be proportioned to the emergency of the cafe; the belly must be kept open and easy with cmollient clysters and laxative medicines, fuch as a spoonful or two of a mixture composed 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 fmall dofe of rhuburb, or five grains of any opening pill, unlefs the patient be troubled with the hæmorrhoids, in which cafe all aloetic medicines ought to be avoided. The patient must not walk much, or undergo hardexercife, but reft 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 flocking 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, venæfection is neceffary, because this ædematous swelling proceeds from a compression of the returning veins, and not from laxity, as in the anafarca and leucophlegmatic conftitutions. Here moderate exercise, and (as I have already obferved) frequent refting on a bed or couch, is beneficial; or if the fkin of the leg and pudenda is exceffively firetched, fo as to be violently pained, the patient will be greatly relieved by puncturing the parts occafionally. But these complaints cannot be totally removed till delivery, after which they commonly vanish of themselves.

The bellies of those that are indolent and use no exercise, ought to be moderately compressed, so that the userus may not rise too high, and accasion difficulty in breathing, and vomiting, in the last months; but they must not be too straitly swathed, less the womb should be determined, in stretching over the pubes, and produce a pendulous belly, which is often the cause of difficult labours. A medium ought, therefore, to be preferved in this article of compressing, and no woman lace her jumps or stays to as to make herfelf uneasy; while the diet, air, and exercise, ought to be regulated according to the constitution, custom, and complaints of the patient.

CHAP. II.

Difeases incident to Pregnant Women, continued.

SECT. I.

OF THE STONE IN THE KIDNEYS AND BLADDER.

OMEN are frequently afflicted with fmall fones and gravel in the kidneys, being lefs fubject than men to this complaint in the bladder, becaufe their urethras are fhort and wide, and fuffer the calculous concretions to pafs with the urine more cafily.

In pregnancy, it is often difficult to diffinguish gravelly pains from those that are felt in the fmall of the back and loins, proceeding from the pressure of the uterus upon these parts. In both cases, when the pains 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 deposited by high-coloured urine, is often miltaken for gravel; a mistake, however, which is the lefs material, because both complaints are relieved by the fame method, namely, venæfection, emollient elysters, emulfions, with gum arabie, infusions of althea, fem. lini, and opiates, and an application of emplast. roborans to the back.

Pains in the loins and belly, extending to the falfe ribs; oceafioned by the ftretching of the uterus, are eafed by rubbing and anointing the parts every night, before the fire, with emollient unguents, fuch 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 advisable to endeavour to extract it, left the operation should be attended with an inflammation of the urethra and vagina: therefore the ftone should be rough, angular, or furrounded with sharp 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 pushed into the upper part of the pelvis; because the flone 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 still remains within the bladder, the only way of relieving the patient is by introducing a eatheter, also one or two fingers in the vagina, to pull up the ftone above and behind the head of the child ; or, if this cannot 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.

E C T. II. S

OF HERNIAS OR RUPTURES.

W/ OMEN are also afflicted with ruptures in different parts, fuch as the navel, groin, and pelvis; but as the uterus in time of gestation flretches higher and higher, the omentum and inteffines are prefied more and more upward and to each fide; and about the fifth or fixth month, the womb rifes to high, that the inteitine eannot defcend into the groin, and the rupture in that part ceafes for the prefent. About the eighth month, the uterus is fo high advanced, that the inteffine or epiploon is kept from pufhing out at the navel, confequently the umbilical hernia is likewife fufpended till after delivery; but this will not happen in either cafe, unlefs the rupture be of that kind which fuffers the omentum and inteffine to be eafily reduced.

Women are also fubject to ruptures of the umbilicus, and those of the groin most incident to the other fex; but there is a third kind peculiar to women, though 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 much lower in this place than at the anterior defcent, where it covers the upper part of the bladder, or at the fides of the pelvis, where it forms the ligamenta lata; for it reaches to within one or two inches of the perinaum ; and the inteffines preffing it farther down, or burfting it in this part, are pushed out in the form of a large tumour, at the fide of the perinxum, betwixt the lower part of the ischium and ececyx. The gut being fo fituated in time of labour, when

when the child's head is fqueezed into the pelvis, may fuffer ftrangulation, if the cafe fhould prove lingering and tedious, and the preffure continue for any length of time. In order to prevent or remedy this accident, let the os externum be gradually opened with the hand, which being introduced in the vagina, fhould raife the child's head, fo as to fuffer the inteffine to be pufhed above it, by the affiftance of the other hand, which preffes upon the outfide; in this manner, both hands may be used alternately, till the purpose be effected; or, fhould this method fail to reduce and retain the inteffine, the child must be delivered with the forceps, or turned and brought by the feet, as we have directed in the case of a stone in the bladder. The ruptures of the umbilicus and groin may be restrained and kept up by proper compression, but it is very difficult to contrive an effectual bandage for the defeent in the perinæum. See collect. xi: No. 2.



DIFFICULTY in breathing, in pregnant women, may be occafioned by collections of matter in the cheft or thorax, as well as in the abdomen; from abfeeffes in the vifeera co-operating with the preffure of the uterus upon the organs of refpiration; these complaints (which are generally fatal) must be treated by the fame method in pregnancy which is used at other times. The cavity of the abdomen is alfo fubject to an afeites or dropfy; with or without hydatides, which in conjunction with the stretching uterus; may distend the belly to a prodigious fize, producing great oppression and anxiety. Here too, the common method of curing or palliating dropfies must be used; with this difference, that the purging medicines are to be cautiously preferibed. 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 mufcle; veffel, and fibre. This difeafe is the effect of univerfal laxity and weaknefs, and, if not timely obviated, may endanger the patient's life, being fometimes attended with a fatal rupture of the uterus in time of labour; in order to prevent which cataftrophe, every thing ought to be preferibed in point of diet, medicine; and exercise, which may contribute to ftrengthen the folids and quicken the circulation. Let her, for example, take repeated dofes of the confect. cardiac. drink moderate quantities of ftrong wine, in which the warm fpices have been infufed, eat no meat but fuch as is roafted and high-feafoned, and abftain altogether from weak diluting fluids, fuch as fmall-beer and water.

S E C T. IV

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

THE vefica urinaria, in pregnant women near their full time; is often for much preffed by the uterus, that it will contain but a very finall quantity of water; a circumflance, though not dangerous, extremely troublefome, effectially when attended with a vomiting or cough; in which cafe, the ftraining forces out the water involuntarily, with great violence. The cough may be alleviated by proper remedies, but the vomiting can feldom

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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 pendulous over the os pubis, thereby compressing the urinary bladder.

But this complaint is not of fuch dangerous confequence as a difficulty in making water, or a total fupprefion, which (as we have already observed) happens, though very feldom, in the fourth or beginning of the fifth month of pregnancy; but most frequently occurs in the time 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 compressed that the urine cannot pass; while the preffure on the other parts of the bladder, being removed in confequence of the diminished fize of the uterus and the laxity of the parietes of the abdomen, the vefica urinaria is the more eafily firetched by the increasing 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 discharge its contents, especially if any fwelling or inflammation remains from the preffure upon the neck and urethra; in which cafe the patient is afflicted with violent ftretching pains in the loins, back, groin, and particularly above the os pubis.

This complaint is immediately removed by drawing off the urine with a catheter; and indeed this experiment ought to be tried before delivery, as it muft infallibly promote labour, becaufe one pain interferes with the other. If the inflammation continues or increases, and the obstruction of urine recurs after delivery, the external parts ought to be fomented with warm flupes; bladders half filled with warm water or emollient decoctions may be applied, as hot as the patient can bear them, to all the lower parts of the belly; and the catheter be used twice a day, or as often as necessfity requires, until the bladder shall have recovered its tone, fo as to perform its office without affiftance.

SECT. V.

OF THE FLUOR ALEUS 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 those who are ufually troubled with it, the complaint generally ceafes all the time of pregnancy; in fome, however, it continues to the last, provided the feat of it is the vagina; and the evacuation is fometimes for great as to weaken both mother and child, and even to produce a mifear-riage. Every thing that strengthers and nourishes the body is here of fervice. This is also supposed to happen, when some part of the chorion being feparated from the uterus, the fluid that is feparated by the colatura lactea for the nutrition of the strengthers, forces its way through the os internum; and the greater this feparation is, and the nearer the full time, the larger the discharge will be.

SECT. VI.

OF THE GONORRHCEA 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 moisture and laxity of the parts affected; especially 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 very cautioully used; for if the gonorrhœa be neglected or unskilfully managed, the virus will increase, and actually degenerate into a confirmed pox. It is often difficult to diffinguish a gonorrhea from the fluor albus, because 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 vagina; whereas in the first, these generally appear, foon after the infection, about the meatus urinarius, the carunculæ myrti-. formes, and infide of the labia, producing a violent pain in making water. The gonorrhœa is likewife diftinguished from the fluor albus by its continuing all the time of the menstrual discharge, during which the other complaint is commonly suspended ; but this mark is at best but uncertain, and can be of no fervice in pregnancy, because then the menses themselves are obstructed. The cure is best attained by bleeding; repeated doses of gentle cathartics, mixed with mercurials; a low diet; emulfions impregnated with nitre; and laftly, 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, buboes in the groin, ulcers in the n ofe and throat, fo that the life of the patient or confitution 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 ftrength 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 occafion abortion, ought to try, by palliating medicines, to alleviate and keep under the fymptoms till after delivery. See collect. xi. No. 4.

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OF MISCARRIAGES.

O S T of the complaints above defcribed, if violent and neglected, may occafion a mifcarriage; and it would be almost an endless task to enumerate every accident from which this misfortune may proceed. I shall therefore content myfelf with defcribing in what manner abortion happens; first, in the death of the child; fecondly, in the feparation of the placenta; and lastly, in whatever may occasion too great extension of the neck and of the os internum.

SECT. I.

OF THE CHILD'S DEATH.

THIS may proceed from difeafes 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,

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the fœtus, while young, may in fwimming form a noofe of the funis; through which if the head only paffes, a circumvolution will happen round the neck or body; but fhould the whole fœtus pafs or thread this noofe, a knot will be formed on the navel-firing, which, if tight drawn, will abfolutely obftruct the circulation. This may likewife be the cafe when the waters are in very fmall quantity, and the funis umbilicalis falls down before the head, by which it is violently compressed. In fhort, the death of the fœtus will be effected by all circumvolutions, knots, or preffure upon the navel-ftring, which deftroy the circulation betwixt the placenta and the child.

The foctus may fuffer death from difeafes and accidents that happen to the mother; from violent paffions of joy, fear, or anger, fuddenly raifed to fuch transports as occasion tremors, fainting or convulsions; and from a plethora, and all acute diffempers in which the circulating force of the fluids is too violent.

The child being dead, and the circulation in the fecundines confequently defroyed, the uterus is no longer firetched; the focus, if large, is no longer felt to move or fir; all the contained parts run gradually into a flate 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 burk through their mortified inclofure; and the uterus is contracted clofe to its contents, which are therefore prefied down lower and lower; the neck and mouth of the womb being gradually firetched, labour comes on, and a mifcarriage enfues.

mifcarriage enfues. At other times, gripings, loofenefs, and labour-pains, even before the membranes break, are occasioned by obstructions or resistance of the vessels of the uterus. In these cases, is no flooding happens, the woman is feldom in danger; and, though the child is known to be dead, the progress of nature is to be waited for with patience. If the woman is weak, exhausted, or timorous, she must be encouraged and fortified with nourishing diet; if plethoric, she must be encouraged and fortified with nourishing diet; and when labour begins, be affilted according to the directions specified in the sequel. See collect. xii, No. 1.

SECT. II:

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OF THE SEPARATION OF THE PLACENTA FROM THE UTERUS.

THIS feparation may proceed from all the foregoing difcafes and accidents that happen to the mother; from violent flocks, ftrains, overreachings, falls, and bruifes on the abdomen; as alfo from vehement coughs, vomitings, or ftrainings at flool when the body is coffive. The feparation of the placenta is always accompanied with a difcharge of blood from the veffels of the uterus, more or lefs, according to the term of pregnancy, or as the placenta is more or lefs detached.

The younger the woman is with child, the danger is the lefs; becaufe, though a confiderable quantity of blood be loft, it does not flow with fuch violence as to exhauft her immediately; and therefore fhe may be fupported and her fpirits kept up with proper cordials and nutritive diet. But when fuch an hæmorrhage happens in any of the three or four laft months of pregnancy, the danger is much more imminent, effectially towards the full time; becaufe the veffels of the uterus being then largely diffended, a much greater quantity of blood is loft in a fhorter time; yet in both cafes; the floodings floodings will be more or lefs, as there is more or lefs of the placenta feparated from the womb; and when this happens in a very fmall degree, the difcharge may by right management be fometimes flopped, and every thing will happily proceed to the full time. But if this purpole cannot be effected in a woman young with child; the principal intention ought to be a mitigation of the hæmorrhage, leaving the reft to time and patience, as a mifcarriage in the first five months is feldom attended with hazard. On the contrary, nothing can be more dangerous than fuch an effusion in any of the four laft months, provided it cannot be immediately reftrained. In this cafe we are often deceived by a flort intermission, occasioned by coagulated blood that locks up the mouth of the womb, which being pushed off, the flooding returns; and hence we account for its returning to commonly upon motion, a fit of coughing, ftraining at flool, or any effort whatever.

It is happy for the woman in this cafe, when the is for near the full time that the may be fultained till labour is brought on; and this may be promoted, if the head prefents, by gently firetching the mouth of the womb, which being fufficiently opened, the membranes must be broke; for that the waters being evacuated, the uterus contracts, the flooding is reftrained, and the patient fafely delivered. At any rate, if the hæmorrhage returns again with great violence, there is no other remedy than that of delivering with all expedition according to the method deferibed in book iii. chap. iv. fect, z, and book iv. chap. i. fect. 3.

Although the great danger is from floodings when near the full time, 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 occasion 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 time; and if this be the cafe, a flooding begins at the fame time, and feldom ceafes entirely until the woman is delivered; the difcharge may indeed be intermitted by coagulums that flop up the paffage; but when these are removed, it returns with its former violence, and demands the fame treatment that is recommended above.

In all cafes and at all times of pregnancy, if the woman receives any extraordinary fhock either in mind or body, if fhe is attacked by a violent fever, or any complaints attending a plethora, bleeding ought always to be prefcribed by way of prevention or precaution, unlefs a low, weak, lax habit of body renders fuch evacuation unadvifable; but thefe are not fo fubject to fevers from fulnefs.

On the first appearance of flooding, the patient ought immediately to be bled to the amount of eight or twelve ounces, and venæfection repeated occasionally according to the strength of the constitution and emergency. of the case. She ought to be confined to her bed, and be rather cool than warm. If costive, an emollient clyster must be injected in order to diffolve the hardened fæces, that they may be expelled easily without straining; internally, multion with nitre must be used, and mixtures of the tinct. rosar. rub, acidulated with spirit of vitriol, as the cooling or restringent method shall seem to be indicated; but above all things, opiates must be administered to procure rest, and quiet the uneasy apprehensions of the mind; for diet, let her use panada, weak broth, and rice-gruel; she may drink water in which a red-hot iron has been several times quenched, mixed with a similar a fmall proportion of burnt red-wine; fhe muft abstain from all the highfeafoned foods, and even ficsh-meat or strong broths, that will enrich the blood too fast, and quicken the circulation. But if, notwithstanding this regimen, the flooding shall continue and increase, fo that the patient becomes faint and low with loss of blood, we must without farther delay attempt to deliver her, as in book iii. chap. ix. fect. 3; though this is feldom practicable, except in the last months of pregnancy, and then will be the easier performed the nearcr st to her full time, unless labour pains shall have assisted or begun a dilatation of the os internum.

OF COUGHS, VOMITINGS, &c.

SECT. III.

MISCARRIAGES may also be produced from every force that will ftretch the neck and mouth of the womb; fuch as violent coughs, vomitings, coffive ftrainings at ftool, cathartics that bring on a fuperpurgation and tenefinus, together with frequent convultions. All these fymptoms must be treated in the ufual method; the cough and vomiting may be abated or removed chiefly by venæfection and opiates; the conflication, by clyfters and gentle laxative medicines; the fuperpurgation, by opiates; the tenefmus, by these and oily injections; the convultions, by bleeding and blifters; and as the more violent convultions happen generally when the woman is near her full time, if they are not foon removed, but continue and increase to the manifest hazard of the patient's life, the ought to be delivered immediately in the fame manner as in the case of a flooding in the last months. See collect. xii. No. 2.

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OFLONGINGS.

A BORTION may be likewife occafioned by uncommon longings for things that cannot be foon or eafily got, or fuch as the woman is afhamed to afk for, especially in her first child, namely, different kinds of food and drink. These appetites, if not gratified, fometimes produce a miscarriage; and indeed are supposed to affect the child in such a manner, that the body of it shall be impressed with marks refembling the figure or colour of what the mother longed for. These cravings, therefore, thoughthey appear unreasonable and improper, must be fatisfied; and the mother ought to shun every thing that is disagreeable to the fenses, because miscarriage may also proceed from supprise at fight of strange and horrible objects, See collect. xii. No. 3.



OF THE CHILD'S SITUATION IN THE UTERUS.

HE embryo or fœtus, as it lies in the uterus, is nearly of a circular or rather oval figure, which is calculated to take as little fpace as poffible. The chin refls upon the breaft; the thighs are preffed along the. PART L]

the belly; 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 one 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 vertebræ of the loins, the diffance from the back to the fore part of it must be lefs than from fide to fide; fo that in all probability, one ide of the fœtus 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 longish cavity on each fide of the vertebræ, the fore parts of the fœtus may therefore, for the most part, tilt more backward than forward.

It has been generally fuppofed that the head is turned up to the fundus, and the breech to the os uteri, with the fore parts toward 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, efpecially 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 Mauriceau, 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 first month, according to fome writers, the embryo exhibits the figure of a tadpole, with a large head and fmall body or tail, which gradually increases in magnitude, till the arms and thighs begin to bud or start 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 diffinguished 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 diffinct, 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 fuspended by the navel-string in water, . the head must fink lowermost of courfe. Besides, when women inifcarry, in the fourth, fifth, fixth, and feventh months, the head, for the most part, prefents itsclf, and is first delivered. (See tab. vi. viii.) By the touch in the vagina, the head is frequently felt in the feventh, fometimes in the fixth, but more frequently in the eighth month; and if the fame women are thus examined from time to time till the labour begins, the head will always be felt of a round firm fubstance at the fore part of the brim of the pelvis, betwixt the os internum and pubes, through the fubflance of the vagina and uterus. (Sec tab. ix. xi.) But all these opinions are limble to objections. If the defcent of the head proceeded from its specific gravity, we should always find it at the os internum, because this reason would always prevail; if it were not owing to a diminished proportion of water, why flould • fhould we find the breech prefented, even where there is a quantity of that fluid large enough to give the head free liberty to rife again toward the fundus, or (according to the other opinion) to fink down, by its fpecific gravity, to the os internum? Some, indeed, fuppofe, that the head always prefents itfelf, except when it is hindered by the funis umbilicalis twifting round the neck and body, fo as to impede the natural progrefs. But, were this fuppolition juft, when we turn and deliver by the feet those children that prefented in a preternatural way, we fhould always find them more or lefs circumvoluted by the navel-ftring; whereas I have as often found the funis twifted round the neck and body, when the head prefented, as in any other cafe; and when other parts offered, have frequently delivered the child without finding it in the leaft entangled by that cord.

That the head is downward all the time of geftation, feems, on the whole, to be the most reasonable opinion, though it be liable to the objection already mentioned, and seems contradictory to the observation of some authors, who alledge, that, in opening women that died in the fifth, fixth, or feventh month, they have found the child's head toward the fundus uteri. But as it lies as easy in one posture as in another till the birth, this dispute is of less confequence in the practice of midwifery. It may be useful to suggest, that the wrong posture of the child in the uterus may proceed from circumvolutions of the funis umbilicalis (fee tab. xxix.); or when there is little or no water furrounding the child, it may move into a wrong position, and be confined there by the stricture of the uterus (fee tab. xxx. xxxi. xxxii. xxxiii.); or lastly, it may be the effect of a pendulous belly or narrow pelvis, when the head lies forward over the publis. See collect. xiiis and tab. xii. xxxii. xxxii.

FOUCHING is performed by introducing the fore finger lubricated with pomatum into the vagina, in order to feel the os internum and neck of the, utorus; and fometimes into the rectum, to difcover the firetching of the fundus. By fome, we are advised to touch with the middle finger, as be-. ingithe longeft; and by others, to employ both that and the first; but the middle is too much encumbered by that on each fide, to answer the purpose -fully; and when two are introduced together, the patient never fails to complain. The defiga of todching, is, to be informed whether the woman is or is not with child; to know how far the is advanced in her pregnancy; affishe is in danger of a mifcarriage ; 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 preffing down of the membranes with their waters; - and laftly, to diffinguish what part of the child is prefented. It is general-Hy impracticable to difcover by a touch in the vagina, whether or not the aterus is impregnated, till after the fourth month; when the beft time for examination is the morning, when the woman is fatting, after the contents obf the bladder and reclum have been discharged ; and the ought, if neceffary, to fubmit to the enquiry in a flanding poffure; becaufe, in that cafe, the nterus hangs lower down in the vagina, and the weight is more fentible to the touch than when the lies reclined. One principal reafon of our uncerrtainty is, when we try to feel the neck, the womb rifes up on our prefling against the vagina, at the fide of the os internum (fee tab. vi. fig. 1.); and in fome, the vagina feels very tenfe; but, when the fundus uteri is advanced near

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near the navel, the pressure from above keeps down the os internum fo much, that you can generally feel both the neek, and above that, the stretching of the under part of the uterus. See tab. vi. viii.

These is no confiderable variation to be felt in the figure of the os internum, except in the latter end of pregnancy, when it fometimes grows larger and fofter (see tab. ix.); nor do the lips feem to be more closed in a woman with child than in another; especially in the beginning of pregnancy; but in both cafes, the os uteri is felt like the mouth of a young puppy or tench; as we have before observed. In some, the lips are very small; in others, large; and fometimes, though feldom, fmoothed over or pointed. In many women, who have formerly had ehildren and difficult labours, the lips are large, and fo much feparated as to admit the tip of an ordinary finger ; but a little higher up, the neck feems to be quite clofed:

In the first four months, the neek of the womb may be felt hanging down in the vagina, by pushing up the finger by the fide of the os internum; but the firetching of the uterus and upper part of the neek earliet be perceived till the fifth, and sometimes the fixth month; and even then the uterus must be kept down, by a strong pressure upon the belly:

The stretching of the fundus is sometimes felt by the finger introduced into the rectum, before it can be perceived in the vagina; becaufe, in this last method, the uterus recedes from the touch, and rifes too high to be accurately diffinguished; whereas the finger, being introduced into the rectum, passes along the back of the womb almost to the upper part of the fundus, which in an unimpregnated state 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 much ftretched, as to rife three or four inches above the os pubis, or to the middle fpace between that and the navel; fo that, by prefling the hand on the belly, especially of lcan women, it is frequently perceived (see tab. vii.); and if, at the same time, the index of the other hand be introduced in the vagina, the neck will fecm thortened, particularly at the fore part and fides; and, as I have already observed, the weight will be sensibly felt ; but if the parietes of the abdomen are stretched after eating, one may be deceived by the firetching of the flomach, becaufe weight and preffure are the fame. But all these figns are more perceptable toward the latter end of pregnancy ; and in fome women the os internum 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 thorter and thorter, and the firetching of the womb grows more and more perceptable: In the feventh month, the fundu's rifes as high as the navel; in the eighth month, to the middle space 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 these marks may vary in different women; for when the belly is pendulous, the pairs below the navel are much more ftretched than those above, and hang over the os pubis; the fundus will then be only equal to, or a little higher than, the navel; at other times the uterus will rife in the latter end of the feventh or eighth 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 fometimes makes the examination of the abdomen more certain than the touch of the vagina; and fo vice verfa. At other times, we must judge by both. See collect: xiii. and tab. xii.

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SECT. III.

OF THE SIGNS OF CONCEPTION, AND THE EQUIVOCAL SIGNS OF PREG-NANT AND OBSTRUCTED WOMEN.

THE figns of pregnancy are to be diffinguished from those that belong to obstructions, by the touch in the vagina, and motion of the child in the fifth or fixth month : fometimes, by the touch in the rectum, before and after the fifth month, when the tumour of the abdomen is plainly perceived.

Most 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 fickness and oppression in the stomach, and a fulness of all the viscera of the abdomen; and all these fymptoms abate, and gradually vanish, when the discharge begins and continues to flow. But if the woman be obstructed by any accident or error in the non-naturals, all those complaints continue and increase, and, are hardly diffinguishable from the symptoms 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 those who are only obstructed, grow worse and worse, from the increase of the lentor in the fluids, which will in time produce various and dangerous difcafes. The fundus uteri, in the obstructed patient, is not stretched, nor is the diforder in her stomach fo violent as in a pregnant woman, and feldom accompanied with retchings; while the woman with child is afflicted with a retching every morning, and fubject to longings belides. The first labours under a fulnefs of the veffels; the last, over and above this complaint, fuffers an additional one from the distension of the uterus by the impregnated ovum. Obstructions and pregnancy are both accompanied by a fretching fulness of the breafts; but in the last only may be perceived the arcola, or brown ring, round the nipples, from which, in the last months, a thin ferum diftils; but this circle is not always fo difcernable as in the first pregnancy, and even then is uncertain, as well as the others.

About the fifth or fixth month, the circumferibed tomour, or ftretching of the uterus, is felt above the os pubis; and by this circumfeription and confiftence, eafily diffinguished from the afeites or dropfy of the abdomen = it is also rounder and firmer than those fwellings that accompany obstructions, which proceed from a general fulness of the veffels belonging to the ligaments and neighbouring viscera.

On the whole, the difficulty of diffinguishing between obstruction and pregnancy, in the first months, is fo great, that we ought to be cautious in giving our opinion, and never preferibe fuch remedies as may endanger the fruit of the womb, but rather endeavour to palliate the complaints until time shall different the nature of the case; and always judge on the charitable fide, when life or reputation is at stake.

In the fifth or fixth month of uterinc gestation, by the touch in the vagina, we perceive the neck of the womb confiderably shortened; and the stretching of the lower part of the uterus is then sensibly felt between the mouth of the womb and the pubes, and on each fide of the neck. See tab. vi. viii.

In the feventh month, the head of the child is frequently felt refting against the lower part of the uterus, between the pubes and os internum; and being pushed upward toward the fundus, finks down again by its own gravity. All these diagnostics are more plain and certain, the nearer the patient approaches to the time of delivery.

Sometimes-

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 circumftance may be owing to the head refting above the bafon, efpecially in a narrow pelvis; or to the diffention 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 fluid in the membranes; nor is the body always felt when the child lies acrofs the uterus. See collect. xiii.

SECT. IV.

HOW TO DISTINGUISH THE FALSE LABOUR FROM THF TRUE, AND THE MEANS TO BE USED ON THAT OCCASION.

F the os uteri remains close shut, it may be taken for granted that the woman is not yet in labour, notwithstanding the pains she 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 preferibed, and repeated occafionally. If the pains are occasioned by a loofeness, or diarrhoa, it must be immediately reftrained with opiates, as in book ii. chap. iii. fect. 4. Colic pains are diffinguished from those of labour by being chiefly con-fined to the belly, without going off and returning by distinct intervals; they are, for the most part, produced by fæces too long retained in the colon, or by fuch ingesta as occasion a rarefaction or expansion of air in the inteffines, by which they are violently ftretched and vellicated. This complaint must be removed by opening clysters, to empty the guts of their noxious contents; and this evacuation being performed, opiates may be administered to assuge 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 aftertained after fome 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 vagina; if the pains are limited to the region of the belly, without extending to the back and infide of the thighs; if they are flight, and continue without intermiffion 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, inflead 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 ffitches in the fides, back, or head, bleeding will be likewife neceffary. See collect. xiii, and tab, yiii. ix. x.

SECT. V.

THE DIVISION OF LABOURS.

HIPPOCRATES, and almost all the writers upon this fubject from his time to the fifteenth century, divided labour into two kinds; namely, natural and preternatural. The first comprehended those cases in which the H 2 head

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head (others fay the head and breech) prefented, though the prefentation of the head was always deemed the most natural; the other included all births in which any other part of the body first offered itself. And though they did not, like us, use a third diffinction, they feem to have understood 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 crotchet. At prefent, labours are divided into natural, according to the ancients, when the head or breech prefents ; laborious, when, notwithstanding this fituation of the child, the delivery goes on fo tedioufly, that the woman is in danger of lofing her life, unlefs 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 most part, there is a necessity of turning the child, and bringing it away by the feet. But the division of labours hath been varied according to the opinion of different people. Some think that all those cases ought to be deemed preternatural, in which any part of the body (the head itfelf not excepted) presents in an unufual way. Others affirm, that whatever part prefents, or however the posture 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 natural; laborious, when in these cases the child is born with difficulty; and preternatural, when, lying across the uterus, it must be turned and delivered by the feet.

For my own part, having in teaching found all these divisions liable to objections, I have followed a method which is more simple 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 affiftance commonly given ; but fhould the cafe be fo tedious and lingering, that we are obliged to use extraordinary force in stretching the parts, extracting with the forceps, or (to fave the mother's life) in opening the head and delivering with the crotchet, I dif-tinguish it by the appellation of *laborious*; and in the *preternatural*, I comprehend all those cases in which the child is brought by the feet, 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 strength enough to force down the child's head into the pelvis, or in floodings we are at length obliged to turn and bring it by the feet, because it is so 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 skull, and extracting with the crotchet. In this case, therefore, although the child prefents in a natural way, we are obliged to turn and deliver it in the fame manner as if the shoulder, breast, or back, had prefented; and generally, this operation is more difficult than in either of those cases ; because if the waters are all discharged, and the uterus close contracted round the fœtus, it is more difficult to raife the head to the fundus. When the breech prefents, we are frequently obliged to push 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 poffible, to turn the child into the natural polition.

For a farther illustration, and to inform young practitioners that difficult cafes do not frequently occur; suppose, of three thousand women in one town or village, one thousand shall be delivered in the space of one year, and in nine hundred and ninety of thefe births, the child shall be born without any other than common affiftance; fifty children of this number shall offer with the forehead turned to one fide at the lower part of the pelvis, where it will ftop for fome time; ten will come with the forehead toward the groin, or middle of the pubes; five shall prefent with the breech, two or three with the face, and one or two with the ear; yet all thefe shall be fafely delivered, and the cafe be more or lefs lingering and laborious according to the fize of the pelvis and the child, or firength of the woman. Of the remaining ten that make up the thousand, fix shall prefent with the head differently turned, and two with the breech; and these cannot be faved without stretching the parts, using the forceps or crotchet, or pushing 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 shall lie acrofs, and neither head nor breech, but fome other part of the body, prefent, fo that the child must be turned and delivered by the feet. Next year, let us suppose another thousand women delivered in the fame place; not above three, fix, or eight, shall want extraordinary affistance; nay, fometimes, though feldom, when the child is young or unufually fmall, and the mother has ftrong pains and a large pelvis, it shall be delivered even in the very worft polition, 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*; those of the other feventy that require affistance may be deem e *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 diffinct 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; those births are called *laborious* or *non-natural*, when the head comes along with difficulty, and must be affisted 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 those which are brought by the breech or feet, are denominated *preternatural*, because the delivery is performed in a preternatural way.

C H A P. II. Natural Labours.

SECT. I.

OF THE DIFFERENT POSITIONS OF WOMEN IN LABOUR.

N almost all countries, the woman is either to fit, walk about, or rest upon a bed, until the os uteri is pretty much dilated by the gravitation of the waters, or (when they are in small quantity) by the head of the foctus, fo that delivery is foon expected, when she is put in such postition

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 miftakes. See collect. xiii. xiv. Among the Egyptians, Grecians, and Romans, the woman was placed

Among the Egyptians, Grecians, and Romans, the woman was placed upon a high flool; in Germany, and Holland, they use the chair which is defcribed by Daventer and Heister; and for hot climates, the stool is perfectly well adapted; but in northern countries, and cold weather, such a position must endanger the patient's health.

In the West-Indies, and some parts of Britain, the woman is feated on a stool made in form of a femicircle; in other places, she is situated on a woman's lap; and some, kneeling on a large cushion, are delivered backwards.

In France, the position 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-fheet; and above this are fpread feveral 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 fheep-fkins below preferve the feather-bed from being wetted 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 must be no more than three feet wide, and provided with caftors; and the woman, without any other drefs than that of a short or halffhift, a linen skirt or petticoat open before, and a bed-gown, ought to lie down upon it, and be covered with clothes according to the featon of the year. She is commonly laid on the left fide, but in this particular she is to confult her own eafe; and a large fheet being doubled four times or more, one end must be flipped in below her breech, while the other hangs over the fide of the couch, to be spread on the knee of the accoucheur or midwife, who fits behind her on a low feat. As foon as fhe is delivered, this sheet must be removed, a foft warm cloth applied to the os externum, and the pillow taken from betwixt her knees; the then must be thifted with a clean warm half-shift, linen skirt and bed-gown, and the belly kept firm with the broad head-band of the skirt, the ends of which are to be pinned across each other. These measures being taken, the couch must be run close to the bed-fide, and gently moved from one to another; but if there is no couch, the bed mult be furnished with the same apparatus. Some, again, are laid across the foot of the bed, to the head of which the clothes are previoufly turned up till after delivery, when the woman'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 supplied, and the upper part of the bed preferved foft and clean ; whereas those who are laid above the clothes, must be taken up and shifted while the bed is put to rights, in which cafe they are fubject to fainting; and to fuch as are very much enfectled, this fatigue is often fatal. . Women J 1.

Women are most easily touched, least fatigued, and kept warmest, when they lie on one fide. But if the labour should prove tedious, the Parisian method feems most eligible; because, when the patient half-fits half-lies, the brim of the pelvis is horizontal; a perpendicular line falling from the middle space between the forobiculus cordis and navel, would pass exactly through the middle of the bason, as observed in book i. chap. i. In this position, therefore, the weight of the waters, and, after the membranes are broke, that of the child's head, will gravitate downward, and affisf in opening the parts, while the contracting force of the abdominal muscles and uterus is more free, ftrong, and equal, in this than in any other attitude. Wherefore, in all natural cases, when the labour is lingering or tedious, this or any other position, fuch as standing or kneeling, ought to be tried, which, by an additional force, may help to push along the head and alter its direction, when it does not advance in the right way. Nevertheles, the patient must by no means be too much fatigued.

When the woman lies on the left fide, the right hand muft be ufed in touching, and *wice werfa*, unlefs fhe is laid acrofs on the bed; in which cafe, either hand will equally anfwer the fame purpofe; but if fhe lies athwart, with the breech toward the bed's foot, it will be most convenient to touch with the left hand when the is upon the left fide, and with the right when in the opposite position. And here it will not be amifs to observe, that in the defcription of all the laborious and preternatural deliveries treated of in this performance, the reader muft fuppofe the woman lying on her back, as directed in chap. iii. fect. 3. and chap. iv. fect. 4. except when another posture is defcribed; and that in natural and laborious labours, whether the be upon her fide or back, the head and thoulders are a little raifed into a reclining posture, fo that the may breathe easily, and affift the pains.

But in preternatural labours, when there is a neceffity for using great force in turning the child, the head and fhoulders must 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 pushed up in a right-line along the back part 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 the 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 diminishing in part the frong refistance 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 fafer to the child and eafier for the operator and mother, to turn her to her back before you deliver the body and head.

SECT. II.

OF THE MANAGEMENT OF WOMEN IN A NATURAL LABOUR.

I N a woman come to full time, labour commonly begins and proceeds in the following manner:

The os uteri is felt foft and a little opened, the circumference being fometimes thick, but chiefly thin; from this aperture is difeharged a thick mucus, which lubricates the parts, and prepares them for firetching. This difeharge ufually begins fome days before, and is accounted the fore-runner of real labour; at the fame time the woman is feized at intervals with flight pains, pains, that gradually firetch the os uteri, fitting it for dilatation, and when labour actually begins, the pains become more frequent, firong, and lafting.

At every pain the uterus is ftrongly compressed by the fame effort which expels the contents of the rectum at stool; namely, the inflation of the lungs and the contraction of the abdominal muscles.

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 pushed down by the fluids they contain, and the mouth of the womb being fufficiently opened by this gradual and repeated diftention, 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 pushed along toward the os externum, which they also 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 also protruded ; when, if the membranes, initead of burfting in the middle of the protuberance, are toren all round at the os externum, the child's head is covered with fome part of them, which goes under the name of the caul or king's bood. 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 must of courfe give way; and should they be toren all round from the placenta, the greatest part of the body, as well as the head of the child, will be enveloped by them, from which it must be immediately difengaged, that the air may have a free paffage into the lungs.

When the head is large, fo that it does not defeend immediately into the pelvis, the membranes are forced down by themfelves, and being firetched thinner and thinner give way, when all the waters, which are farther advanced than the head, run out; then, the uterus coming in contact 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 reft of the waters. See tab, xii. xiii.

Sometimes when the quantity of waters is very fmall, 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 middle 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 diftinguished farther than the head, which defeending lower and lower, the attenuated membranes are fplit upon it; while at the fame time 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 in every pain a fmall quantity diffils on each fide of the head, for lubricating the parts, fo as that the child may flip along the more eatily. See tab. xiii.

The uterus contracts; the pains become quicker and fronger; the crown of the head is pufhed down to the lower part of the pelvis, against one of the ifchia, at its lower extremity; the forehead, being at the upper part of the oppofite ifchium, is forced into the hollow of the under part of the facrum, while the vertex and hind-head are prefied below the os pubis (fee tab. xiv.) from whence it rifes in a quarter turn, gradually opening the os externum; the frænum labiorum, or fourchette, perinzum, fundament, and

and the parts that intervene betwixt that and the extremity of the facrum, are all ftretched outward in form of a large tumour. The perinzum, which is commonly but one inch from the os externum to the anus, is now fretched to three, the anus to two, and the parts between that and the coccyx are ftretched from two inches to about three or more. The broad facro-feiatic ligaments, reaching from each fide of the lower part of the facrum, to the under part of each ifchium, are also 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 pushed 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 forces 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.

When the head refts at first 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; yielding a foftnefs to the touch, by which may be diffinguished four fu-tures, or rather one croffing another. These may be plainly perceived, even before the membranes are broke ; yet the examination must 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 defcends 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 lambdoidal may be felt croffing the end of the fagittal future, the occiput making a more obtufe angle than that of the parietal bones, at the place where the three are joined together. But all these circumstances are more eafily diffinguithed after the membranes are broke, or when the head is fo compressed that the bones ride over one another, provided the hairy fealp be not exceffively fwelled. See collect. xiv. and tab. xiii, xiv, xvi, XVII, XVIII,

SECT. III. NUMB. I.

HOW AND WHEN. TO BREAK THE MEMBRANES.

I HAVE already observed, 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 pushed a confiderable way before it into the vagina; nor even then, until they are broke, and the fluid diminished in fuch a manner as will allow the womb to contract, and with the affiftance of the pains, force along the child. When the membranes,

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branes, therefore, are ftrong or unadvanced, and continue fo long unbroke that the delivery is retarded, provided the os internum be fufficiently dilated, they ought to be broke without farther delay, efpecially if the woman hath been much fatigued or exhausted with labour, or is feized with a violent flooding; in which cafe, the rupture of the membranes hasten delivery, and the hæmorrhage is diminished by the contraction of the uterus, which leffens the mouth of the vessels that are also compressed by the body of the child.

The common method of breaking the membranes, is by thrufting the fingers against them when they are protruded with the waters during the pain, or by pinching them with the finger and thumb; but if they are detained too high to be managed in either of these methods, the hand may be introduced into the vagina, if the os externum is so lax as to admit it easily; and if this cannot be done without giving much pain, the fore and middle fingers being pushed into the vagina with the other hand, let a probe, or pair of pointed feisfars be directed along and between them, and thruft through the membranes when they are pushed with the waters below the head. This operation must be cautiously performed, left the head should be wounded in the attempt; and as for the membranes, let the opening be ever so fmall, the waters are discharged with force fufficient to tear them afunder.

NUMB. II.

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 opcies the mouth of the womb without any fenfible interpolition of the waters; then it advances by degrees into the vagina, and the membranes being fplit or toren, little 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 membranes are broke. If no hair is to be felt, but a fmooth body prefents itfelf to the touch, and the woman has undergone many ftrong pains even after the mouth of the womb hath been largely dilated, and the head forced into the middle of the pelvis, you may conclude that delivery is retarded by the rigidity of the membranes, that there is but a fmall quantity of waters, and that if the contained facs were broke, the head would come along without farther hefitation.

Sometimes no waters can be felt while the head is no farther advanced than the upper part of the pelvis, becaufe it plugs up the paffage and keeps them from defeending; but as it advances downward, the uterus contracts, and they are forced down in a fmall quantity toward the back part, from thence, as the head defeends, or even though it fhould flick in that fituation, they are 1 ufhed farther down, and the membranes 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 muft be feratched a little, during every pain, with the nail of a finger, which, though fhort and fmooth, will by degrees wear them 'thinner and thinner, until they fplit upon the head by the force of labour. Yet this expedient ought never to be ufed until you are certain that delivery is retarded by their rigidity; for if that be not the hindrance, the difficulty muft proceed from the weaknefs of the woman, a large 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 waters, which by gradually paffing 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 largest part of it being then past the upper part of the facrum, is commonly iqueezed along, opens the os externum, and is delivered before all the waters are discharged from the uterus; fo that what remains, by moistening and lubricating the parts, helps the shoulders and body to pass with more ease. When the membranes are too foon broke, the under part of the uterus contracts fometimes fo ftrongly before the shoulders, that it makes the resistance shill greater, See collect. xv.

NUMB. III.

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

IN most natural labours, the space betwixt the fore and back fontanels, viz. the vertex, prefents to the os internum, and the forehead is turned to the side of the pelvis; because the bason at the brim is widest from fide to fide; and frequently, before the head is pussed in and fast wedged among the bones, the child (after a pain) is felt to move and turn it to that fide or situation in which it is least prefied and hurt, if it was not prefenting in that position before. But this position of the head may alter, viz. in those 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 occiput 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 deferibed, no more than two inches in depth, whereas at the ifchium it amounts to four. If, therefore, the forehead flicks in its former fituation, without turning into the hollow, it may be affifted 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 fœtus prefents and is forced along in any of thofe politions, 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 be lubricated with pomatum, hogs-lard, butter, or ung. altheæ; the two first are most 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.

NUMB. IV.

HOW TO ASSIST IN LINGERING LABOURS WHEN THE PARTS ARE RIGID.

THE mouth of the womb and os externum, for the most part, open with greater difficulty in the first than in the fucceeding labours, more especially in women turned of thirty. In these eases, the os externum must be gradually dilated in every pain, by introducing the fingers in form of a cone, and turning them round, so as to firetch the parts by gentle degrees;

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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 pufhed before the head (efpecially that part of it next the pubes) even through the os externum; or if the licad paffes 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 be cautioufly performed, and never attempted except when it is abfolutely neceffary; even then it must be effected flowly, and in time of a pain, when the woman is leaft fentible of the dilating force.

When the labour 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 actually retarded by her uneafinefs, which we muft endeavour to furmount by arguments and gentle perfuaiion; but if the is not to be fatisfied, and ftrongly impreffed with an opinion that certain medicines might be administered to hasten delivery, it will be convenient to prefcribe some medicine that fhe may take between whiles, to beguile the time and pleafe her imagination; but if she is actually weak and exhausted, it will be neceffary to order fomething that will quicken the circulating fluids, fuch as preparations of amber, caftor, myrrh, volatile spirits, the pulv. ad partum of the Edinburgh Pharmacopecia, with every thing in point of diet and drink that nourifhes and firengthens the body. If the patient is of a plethoric habit, with a quick, ftrong pulfe, the contrary method is to be ufed, fuch as venæsection, antiphlogistic medicines, and plentitul draughts of weak diluting fluids. See collect. xvii. xviii.

NUMB. V.

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

ALTHOUGH the head is pufhed down into the pelvis and the vertex employed in opening the os externum, the forehead being lodged in the concavity formed by the coccyx and lower part of the faerum ; yet frequently, after the labour-pain is abated, the head is again withdrawn, by the navel-ftring happening to be twifted round the neck ; or when the fhoulders, inftead 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 fhoulders, keeping up the body of the child.

When the head is therefore drawn back by any of thefe obflacles, 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 preflure detains the head till the return of another pain, which will fqueeze 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, although the neck be entangled in the navel-ftring; for as the child advances the uterus contracts, and confequently the placenta is moved lower; the funis umbilicalis will alfo ftretch a little, without obftructing the circulation. The head being thus kept down, the fhoulders are prefied in every fucceeding pain until they 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 contracted round the neck of the child, and before the fhoulders; alfo, when the head is very low, preffing a finger on each fide of the coccyx externally, will frequently affit in the fame manner; alfo, in lingering cafes, when the woman is weak, the head large, or the pelvis narrow, you may affift the delivery by gently firetching both the os externum and internum with your fingers, in time of the pains, which will increase 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 these obstacles, 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 case it was generally alledged that the neck was close embraced by the os internum; but this feldom happens when the head is delivered, because then the os internum is kept dilated on the back part and fides by the breast and arms of the focus, unless it be forced low down with or before the head.

When the head is delivered, and the reft of the body retained from the largeness or wrong presenting of the shoulders, or by the navel-string bcing twilted round the body or neck of the child, the head must be grasped 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, must be pulled straight forwards; and if it will not move easily along, the force must be increased, and the direction varied from fide to fide, or rather from shoulder to shoulder, not by sudden 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 possible without running the risk of overfraining the neck, you must endeavour to slip the turns of the navel-string over the head. But should this be found impracticable, you ought not trifle in tying the ftring at two places, and cutting betwixt the ligatures, as fome people have advised; fuch an operation would engross two much time; befides, the child is in no danger of fuffocation from the ftricture of the funis, becaufe it feldom or never breathes before the breast is delivered.

The better method is, immediately 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 fuftain the force; but if this fail, cut the navel-ftring, and tie it afterwards. 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, pufh 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 must be divided, and the placenta delivered, according to the directions that will occur in the fequely See collect. xix, xx, xxi, xxii.

SECT. 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 nurse without delay; 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 must be delayed, and every thing tried to ftimulate, and fometimes to give pain. If the circulation is languid, respiration begins with difficulty, and proceeds with long intervals; and if it be entirely stopped in the funis, the child, if alive, is not eafily recovered ; fometimes a great many minutes are elapfed before it be-gins to breathe. Whatever augments the circulating force, promotes refpiration; and as this increases, the circulation grows stronger, fo that they mutually affift 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 spirits ; garlic, onion, or mustard, applied to the mouth and note; 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 continuance of the labour-pains, or hath been extracted by the operator, that the uterus may contract fo as to reftrain 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 circulation 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 fe^{*} 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 operator endeavours, by the methods above deferibed, to bring the child to 'life. See collect. xxiii.

NUMB. II.

IN lingering labours, when the head of the child hath been long lodged in the pelvis, fo that the bones ride over one another, and the fhape is preternaturally lengthened, the brain is frequently fo much compressed, that violent convulsions ensure before or soon after the delivery, to the danger and often times the destruction of the child. This diforder is frequently relieved and carried off, and the bad confequences of the long compression prevented, by cutting the navel-string before the ligature is made, or tying it forflightly as to allow two, three, or four large spoonfuls to be discharged.

If the child has been dead one or two days before delivery, the lips and genitals (efpecially the forotum in boys) are of a lived hue. If it hath lain doad in the uterus two or three days longer, the fkin may be cafily fripped from every part of the body, and the navel-firing appears of the fame colour with the lips and genitals; if ten or fourteen days, the body is muchmore livid and mortified, and the hairy fealp may be feparated with eafe; and indeed, any part of the child which hath been ftrongly prefied into the pelvis pelvis, and retained in that fituation for any length of time, will adopt the fame mortified appearance.

N U M B. III.

HOW TO TIE THE FUNIS UMBILICALIS.

DIFFERENT practitioners have used different methods of performing this operation; fome proposing to tie and separate the funis before the placenta is delivered; to apply one ligature close to the belly of the child, with a view to prevent a rupture of the navel; and making another two inches above the former, to divide the rope between the two tyings; by the fecond ligature they mean to prevent a dangerous hæmorrhage from the woman, provided the placenta adheres to the uterus. But all these precautions are founded upon mistaken notions; and the following seems to be that which is easiest and best:

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 refpiration 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 a ligature or two composed of fundry threads waxed together, fo as to equal the diameter of a packthread, being feven 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 first 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 fciffars one finger's breadth from the ligature toward the placenta; and in cutting run the feiffars as near as poffible to the root of the blades, elfe the funis will be apt, to flip from the edge, and you will be obliged to make feveral fnips before you can effect a feparation; at the fame time, guard the point of the feiffars with your other hand. The child being washed, a linch rag is wrapped round 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-firing be tied in any part, or any diffance 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 those children that cry much; the bandage ought always to be applied fo flight as not to affect refpiration.

The ligature upon the funis muß always be drawn fo tight as to fhut up the mouths of the véßels; therefore, if they continue to pour out their contents, another ligature muß be applied below the former; for if this precaution be neglected, the child will foon bleed to death; yet if the navelftring is cut or toren afunder at two or three hand-breadths from the belly, and exposed to the cold without any ligature, the arteries will contract themfelves, fo as that little or no blood fhall be loft; nay, fometimes, if the funis hath been tied and cut at the diftance of three finger-breadths from the child's belly, fo that it hath been kept from bleeding for an hour

[PART I.

or two, although the ligature be then untied, and the navel-ftring and belly chafed, and foaked in warm water, no more blood will be difcharged. See collect. xxv.

SECT.V.

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 observed, 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 she has undergone; and that the uterus may in contracting have no time to fqueeze and feparate the placenta from its inner furface; during which pause also, about one, two, or three cups-full of blood are discharged through the funis from the vessels of the placenta, which is thus diminished in bulk, fo that the womb may be more contracted; and this is the reason 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 straining as if the were at ftool, blowing forcibly into her hand, or provoking herfelf to retch by thrufting her finger into her throat. If by these 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 adhere, must 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-ftring is inferted in the middle, unlefs it be uncommonly retained by its adhesion 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 externum, the whole mafs will be too bulky to come along in that position; in this cafe you must introduce two fingers within the os externum, and bring it down with its edge foremost.

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 adheres to the womb, flide the flat of your hand below the placenta through the os internum; and have ing dilated the uterus, flip down your hand to the edge of the cake and bring it along; but if it adheres to the uterus, pufh up your hand again, and having feparated it cautioufly, deliver it as before.

If inftead of finding the edge or middle of the placenta prefenting to the os externum or internum, you feel the mouth of the womb clofely contracted, you muft take hold of the navel firing as above d'ofted, and flide your other hand along the funis into the vagina; then floor puth your fingers and thumb, joined in form of a cone, through the os uteri, along the fame cord, to the place of its infertion in the placenta, here let your hand reft,

reft, and feel with your fingers to what part of the uterus the cake adheres; if it 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 placenta; and for this operation the nails ought to be eut fhort and fmooth.

In feparating, prefs the ends of your fingers more againft the placenta than the uterus; and if you cannot diffinguifh which is which, becaufe 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 its elge, 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 cautious 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 woman lies on her back, and the placenta adheres to the left fide of the uterus, it will be most commodious to feparate the eake with the right hand; whereas the left hand is most conveniently used when the placenta adheres to the right fide of the womb; but when it is attached to the fore part, back, or fundus, either hand will answer the purpose.

That part of the uterus to which the placenta adheres, is kept still distended, while all the rest of it is contracted.

The nearer the adhesion is to the os internum, the easier is the placenta feparated, and wice worf, ; because it is difficult to reach up to the fundus, on account of the contraction of the os internum and lower part of the womb, which are not fluctehed again without great force, after they have been contracted for any length of time.

When therefore the placenta adheres to the fundus, and all the lower part of the womb is firongly contracted, the hand must be forced 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 flowly, refting between whiles that the hand may not be eramped, nor the vagina in danger of being toren from the womb; for in this cafe the vagina will lengthen confiderably upward.

While you are thus employed, let an affiltant prefs with both hands on the woman's belly, or while you pufh 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 ball, below the lax parietes of the abdomen, fo as to hinder you from effecting the neceffary dilatation.

When you have overcome this contraction, and introduced your hand into the fundus, feparate and bring the placenta along, as above directed; and fhould the uterus be contracted in the middle like an hour-glafs, a circumftance that fometimes, though rarely, happens, the fame method must be practifed.

In every cafe, and efpecially when the placenta hath been delivered with difficulty, introduce your hand after its extraction, in order to examine if any part of the uterus be pulled down and inverted; and if that be the cafe,

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push it up and reduce it without loss of time; then clear it of the coagulated blood, which otherwise may occasion violent after-pains.

For the most part, in ten, fifteen, or twenty minutes, more or lefs, the placenta will come away of itfelf; and though fome portion of it, or of the membranes, he left in the uterus, provided no great flooding enfues, it is commonly difcharged in a day or two, without any detriment to the woman; but at any rate, if possible, all the fecundines ought to be extracted at once, and before you leave your patient, in order to avoid reflections.

I find that, both amongit the ancients and moderns, there have been different opinions and directions about delivering the placenta; fome alledging, that it should be delivered flowly, or left to come of itself; 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 these cases. 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 once in one thousand labours; and as nature is for the most 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 affift but when we find it necessary; 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 be inflamed from any accident, and the woman be loft, the operator will be blamed for leaving the after-birth behind. See collect. xxiii.

CHAP. II.

Of Laborious Labours.

SECT. I.

HOW LABORIOUS LABOURS ARE OCCASIONED.

IN the foregoing fleets, which treat of natural labours, I have defcribed the most cafyand fimple method of managing the woman, delivering the child, and extracting the placenta; but, as it fometimes happens, that we must use extraordinary affistance for the prefervation of the woman or child, or both, I must proceed to give directions how to behave in the laborious births, which more frequently occur than the preternatural.

A general outcry hath been raifed against gentlemen of the profession, as if they delighted in using inftruments and violent methods in the course of their practice; and this clamour hath proceeded from the ignorance of fuch as do not know that inftruments are formetimes absolutely necessary, or from the intercsted views of some low, obscure, and illiterate practitioners, both male and female, who think they find their account in decrying the practice of their neighbours. It is not to be denied, that mischief has been done by inftruments in the hands of the unskilful and unwary; but I am perfuaded that every judicious practitioner will do every thing for the fafety of patients before it his recourfe to any violent method either with the hand or inftrument, though cafes, will occur in which gentle methods will abfolutely fail. It is therefore neceffary to explain those reinforcements which mult be used in dangerous labours; though they ought by no means to be called in, except when the life of the mother or child, or both, is evidently, at stake; and even then managed with the utmost caution. For my own part, I have always avoided them as far as I thought confistent with the fafety of my patients, and ftrongly inculcated the fame maxim upon those who have fubmitted to my inftructions.

All those cafes in which the head of the child prefents, and cannot be delivered in the natural way deferibed in chap. ii. fect. ii. of this book, are accounted more or lefs laborious, according to the different circumftances from which the difficulty arifes; and these commonly are, first, great weakness, proceeding from the loss of appetite and bad digestion; frequent vomitings, diarrhœas or dyfenteries, floodings, or any other difease that may exhault the patient; as also the fatigue she may have undergone by unskilful treatment in the beginning of labour.

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

Thirdly, from the rigidity of the os uteri, vagina, and external parts, which commonly happen to women in the first birth, especially to those who are about the age of forty; though it may be also owing to large callosities, produced from laceration 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.

Fifthly, 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, if chium, 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 skull are hindered from yielding as they are forced into the pelvis; and from a hydrocephalus, or dropfy, distending the head to fuch a degree, that it cannot pass along until the water is discharged.

Seventhly, from a too fmall or difforted 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 pufhed back into the uterus, the beft method is to turn the child, and deliver by the feet, according to the directions which shall be given in the fequel; but if the head is preffed into the middle or lower part of the pelvis, and the uterus ftrongly contracted round 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 Laborious cafes, from fome of the above-recited caufes, happen much oftener than thofe we call preternatural; but thofe which proseed from a narrow pelvis, or a large head, are of the worft confequence. K z These cases demand greater judgment in the operator, than those in which the child's head does not prefent; becaufe in thefe laft, we know that the best and fafest method is to deliver by the feet; whereas, in laborious births, we must maturely confider the cause that retards the head from coming along, together with the neceffary affiftance required; we must determine when we ought to wait patiently for the efforts of nature, and when it is abfolutely neceffary 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 should be apt to reproach ourfelves for having acted prematurely, upon the fuppolition that if we had waited a little longer, the pains might have by degrees delivered the child, or at least 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 ftrong preffure upon the head and brain, the child is dead when delivered, and the woman fo exhausted with tedious labour, that her life is in imminent danger; in this cafe, we blame ourfelves for delaying our help fo long, reflecting, that had we delivered the patient fooner, without paying fuch forupulous regard to the life of the child, the woman might have recovered without having run a dangerous rifk. Doubtlefs it is our duty to fave both mother and child, if possible; but if that is impracticable, to pay our chief regard to the parent; and in all dubious cafes, to act cautioufly and circumfpectly, to the beft of our judgment and skill.

If the head is advanced into the pelvis, and the uterus ftrongly contracted round the child, great force is required to pufh it back into the womb, becaufe the effort must be fufficient to ftretch the uterus, fo as to re-admit the head, together with the hand and arm; and even 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 flick 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, you fhould not attempt to 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, diminish the fize of the head, and extract it as shall be afterwards shown.

SECT. II.

OF THF FILLETS AND FORCEPS.

WE have already observed, that the greatest number of difficult and lingering labours, proceed from the head's sticking fast in the pelvis, which situation is occasioned by one of the feven causes recited above. When formerly this was the case, the child was generally lost, unless it could be turned and delivered by the feet; or if it could be extracted alive, either died foon after delivery, or recovered with great difficulty from the long and fevere compression of the head, while the life of the mother was endangered from the fame cause as above deferibed; for the pressure being reciprocal, the fibres and vessels of the fost parts contained in the pelvis, are bruised by the child's head, and the circulation of the fluids obstructed; fo that a violent inflammation, and fometimes a fudden mortification, enfues. If the child could not be turned, the method practifed in these cases, cafes, was to open the head, and extract with the crotchet; and this expedient produced a general clamour among the women, who obferved, that when recourfe was had to the affiftance of a man-midwife, either the mother or child, or both, were loft. This cenfure, which could not fail of being a great difcouragement to male practitioners, ftimulated the ingenuity, of feveral gentlemen of the profession, in order to contrive fome gentler method of bringing along the head, fo as to fave the child, without any prejudice to the mother.

Their endeavours have not been without fuccefs; a more fafe and certain expedient for this purpofe hath been invented, and of late brought to greater pertection in this than in any other kingdom; fo that if we are called in before the child is dead, or the parts of the woman in danger of a mortification, both the fœtus and mother may frequently be happily faved. This fortunate contrivance, is no other than the forceps, which was, as is alledged, first ufed here by the Chamberlains, by whom it was kept as a nostrum, and after their decease, fo imperfectly known as to be feldom applied with fuccefs; fo that different practitioners had recourse 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 time of Dr. Chamberlain, have undergone feveral alterations, particularly in the joining, handles, form, and composition.

The common way of using them, formerly, was by introducing each blade at random, taking hold of the head any how, pulling it straight along, and delivering with downright force and violence; by which means both os internum and externum, were often tore, and the child's head much bruifed. On account of these bad confequences, they had been altogether difused 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 easily used, 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 first author who defcribed the forceps, with the method of using them; and we find in the observations of Giffard, several cases in which he delivered and faved the child by the affiftance of this inftrument. A forceps was also contrived at Paris, a drawing of which may be feen in the Medical Effays of Edinburgh, in a paper communicated by Mr. Butter, a furgeon. But after Mr. Chapman had published a delineation of his instrument, which was that originally used by the Chamberlains, the French adopted the fame species, 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 where they will easieft pass, 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 furveyed the dimensions and form of the pelvis, together with the figure of the child's head, and the manner in which it passed along in natural labours; and from the knowledge of these things, I not only delivered with greater eafe and fafety than before, but also had the fatisfaction

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to find, in teaching, that I could convey a more diffinct 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 with experience, and hints which have occurred and been communicated to me, in the courfe of teaching and practice, I have been led to ther the form and dimensions of the force, s, fo as to avoid the inconveniences that attend the ufe of the former kinds. See tab. xxxvii.

The confideration of mechanics, applied to midwifery, is likewife in no cafe more ufeful than when the child muft be turned and delivered by the feet; becaufe there we are principally to regard the contraction of the uterus, the polition 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 diffinct notion of the feveral difficulties that occur to those who are or have been under my infiruction, 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 applied before the head is fast jammed in the pelvis, or when it can be pushed up and raifed above the brim. The os externum and internum having been gradually dilated, this noofe must be conveyed on the ends of the fingers, and slipped over the fore and hind-head. I here are also other kinds differently introduced upon various blunt inftruments, too tedious either to defcribe or use; but the most useful of all these contrivances, is a fillet, made in form of a sheath, mounted upon a piece of slender whalebone, about two feet in length, which is easier ap_r 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 being ftrongly contracted fo as that the head and thoulders 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 unless affifted, the is in danger of her life; also when the os internum, vagina, and labia pudendi, are inflamed and tumefied; or when there is a violent difcharge of blood from the uterus, provided the pelvis is not too narrow, nor the head too large, this fillet may be fuccefsfully used; in which cafe, if the os externum and internum are not already fufficiently open, they must be gradually dilated as much as possible by the hand, which at the fame time must be introduced and passed along the 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 fillet over the face and chin, where you can have the best purchase, and where it will be least apt to flip and lofe its hold. This application being effected, let the hand be brought down, and the whele-bone drawn from the fheath of the fillet, which (after the ends of it are tied together) must be pulled during every pain, prefling at the fame time with the other hand upon the oppofite part of the head, and using more or lefs force according to the refiftance.

'The difadvantage attending all fillets, is the great difficulty in introducing and fixing them; and though this laft is eafier applied than the others, yet when the vertex prefents, the child's chin is fo preffed to the break, that it is often impracticable to infinuate the fillet between them, and and if it is fixed upon the face or hind-head it frequently flips off in pulling. But, granting it commodioully 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 comes out on a fudden in confequence of violent pulling, the external parts of the woman are in great danger of fudden laceration: but if the head is fmall, and comes along with a moderate force, the child may be delivered by this contrivance, without any bad confequence; though in this cafe, we find by experience, that unlefs the woman has fome very dangerous fymptom, the head will in time 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 labour-pains, although flow and lingering, and the mother feems weak and exhaufted, provided fhe be furported with nourifhing and ftrengthening cordials.

From what I have faid, the reader ought not to imagine that I am more bigotted to any one contrivance than to another. As my chief study hath been to improve the Art of Midwifery, I have confidered a great many different methods, with a view of fixing upon that which should best fucceed in practice: I have tried feveral kinds of lacks, which have been from time to time recommended to me; and in particular, the laftmentioned 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 difficult cafes, and fometimes 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 recourse to the forceps, which being introduced with greater eale, and fixed with more certainty, feldom failed to answer the purpose 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 useful; for daily experience proves that we are still imperfect, and very far from the ne plus ultra of difcovery in arts and fciences ; though I hope every gentleman will despife and avoid the character of a felfilh fecret-monger.

As the head in the 6th and 7th cafes is forced along the pelvis, commonly in these laborious cafes the bones of the cranium are fo compressed, that they ride over one another, fo that the bulk of the whole is diminified, and the head, as it is pulhed forward, is, from a round, altered into an oblong figure: when therefore it is advanced into the pelvis, where it flicks fait for a confiderable time, and c nnot be delivered by the labourpains, the folceps may be introduced with great eale and fafety, like a pair of artificial hands, by which the head is very little (if at all) marked, and the woman very feldom tore. But 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 too narrow, or the other too large, the woman cannot be dlivered by the ftrongest labour-pains: in that cafe the child cannot be fixed, either by turning and bringing it by the feet, or delivered by the application of fillet or foreeps; but the operator must unavoidably use the difagreeable method of extracting with the crotchet. Neverthelefs, in II these eafes, the forceps ought first to be tried; and fome-. times they fill fucceed beyond expectation, provided the birth is retarded by the wealnefs of the woman, and the fecond, third, fourth, or lifth obstructions But they cannot be depended upon, even when the vertex prefents, with 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 membranes are broke) the head is not forced down into the pelvis, or at least but an inconfiderable part of it, refembling the fmall end of a fugar-loaf; for, from these circumstances, you may conclude, that the largest part of it is still above the brim, and that either the head is too large or the pelvis too narrow. Even in these cases, indeed, the last filler, or a long pair of forceps, may take fuch firm hold, that with great force and ftrong purchase the head will be delivered : but such violence is commonly fatal to the woman, by caufing fuch an inflammation, and perhaps 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 using too great force, I have always used and recommended the forceps fo flort in the handles, that they cannot be used with such violence as will endanger the woman's life; though the purchase of them is fufficient to extract the head, when one-half or two-thirds of it are equal to, or past, 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 fingers all round, that no part of the vagina be included in locking. Sometimes, when the head refts, or is prefied 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 are ftrong, and the operation affifted by the fingers of the other hand applied to the oppofite fide of the head; but if the fingers cannot reach high enough, the beft 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 push the handles 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 inconvenience, I contrived a longer pair, curved on one fide, and convex on the other: but thefe ought never to be used except when the head is finall; for, as we have already observed, when the head is large, and the greatest 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 advantageoufly ufed when the face prefents and is low down, and the chin turned to the facrum; becaufe, in that cafe, the occiput is towards the pubes, fo that the ends of the blades can take firmer hold of the head; but then the chin cannot be turned below the pubes fo eafily with these as with the other kind, nor the hind-head be brought below these last bones. See tab. xxvi.

SECT. III.

GENERAL 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 7th cafe, it is changed from a round to an oblong figure, by being forced along by the labourpains; on the contrary, when the head remains high up, reting upon the brim of the pelvis, the forceps are used with greater difficuly and uncertainty.

The os externum must 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 in a femicircular motion as they are puthed up. If the head is follow 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 upwards, 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 flide along betwixt the head and the os facrum. If the right-hand be used, let it be turned a little to the left fide of the pelvis, becaufe the broad ligament and membrane that fill, up the fpace between the facrum and ifchia, will yield and allow more room for the fingers to advance; for the fame reason, when the left-hand is introduced, it must be turned a little to the right fide. Having gained your point fo far, continue to push up, until yout fingers pais 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 diffinguish the situation and size of the head, together with the dimensions of the pelvis; from which investigation you 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 strong, and the head prefents tolerably fair, without being jammed in the pelvis; you will refolve to wait fome time, in hope of feeing the child delivered by the labour-pains, especially when the woman is in no immediate danger, and the chief obstacle is the rigidity of the parts.

The polition of the head is diftinguished by feeling for one of the ears; the fore or fmooth part of which is towards the face of the child: if it cannot be affectained by this mark, the hand and fingers mult be pushed farther up, to feel for the face or back part of the neck; but if the head cannot be traced, the observation mult be taken from the fontanel, or that part of the cranium where the lambdoidal croffes the end of the fagittal future. When the ears of the child are towards the fides of the pelvis, or diagonal, the forehead being 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 supported as directed in chap. ii: fect. i. and chap. iv. fect. iv. If one ear is to the facrum, and the other to the pubes, the mult be laid on one fide, with her breech over the bed, 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 much forward, in which cafe the mult he upon her back, as above deferibed.

The blades of the forceps ought always, if poffible, to be 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, indeed, not the leaft mark of their application is to be perceived; whereas, if the blades are applied along the forchead and occiput, they are at a greater distance 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. See tab. xvi.

The woman being laid in a right polition for the application of the forceps, the blades ought to be privately conveyed between the feather-bedand the clothes, at a fmall diffance from one another, or on each fide of the patient : that this conveyance may be the more eafily effected, the legs of the inftrument ought to be kept in the operator's fide-pockets. Thus 9 L provided, provided, when he fits down to deliver, let him fpread the fheet that hangs over the bed, upon his lap, and, under that cover, take out and o 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 affiftants. 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 them as much as poffible, until the character of the operator is fully effablifhed.

S E C T. IV. THE DIFFERENT WAYS OF USING FORCEPS. N U M B. I.

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; in this cafe, 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 fide or foot of the bed, while the affistants, fitting on each fide, support her legs, at the fame time keeping her kneesduly feparated and raifed up to the belly, and her lower 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 conftitution, a chafing-difh with charcoal, or a veffel with warm water, fhould be placed near or under the bed. These precautions being taken, let the operator place himfelf upon a low chair, and having lubricated with pomatum the blades of the forceps, and alfo his right hand and fingers, flide first the hand gently into the vagina, pushing it along in a flattened form, between that and the child's head, until the fingers have passed the os internum; then with his other hand, let him take one of the blades of the forceps from the place where it was deposited, and introduce it betwixt his right-hand and the head; if the point or extremity of it should stick at the ear, let it be flipped backward a little, and then guided forward with a flow and delicate motion ; when it shall have passed the uteri, let it be advanced fill farther up, until the reft, at which the blades lock into each other, be close to the lower part of the head, or at least within an inch thereof.

Having in this manner introduced one blade, let him withdraw his right hand, and infinuate 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 head that is difengaged, let it be applied to the other fide of the child's head, by the fame means employed in introducing the first; then the left-hand muft be withdrawn, and the head being embraced between the blades, let them be locked in each other. Having thus fecured them, he must 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 pushes out the

the perinzum 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 perinæum and lower parts of the os externum may not be tore.

In fretching 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 membranes with the waters or the child's head, the parts are feldom inflamed or lacerated; but in all natural labours, when these parts are fuddenly opened, and the child dilivered by ftrong and violent pains, without much intermission, this misfortune sometimes happens, and the woman is afterwards in great pain and danger.

We ought therefore, when obliged to dilate those parts, to proceed in that flow deliberate manner; and though, upon the first trial, they feel fo rigid, that one would imagine they could never yield or extend ; yet, by ftretching with the hand and refting by intervals, we can frequently overcome the greatelt reliftance. We must also, in fuch cases, be very cautious, pulling flowly, with intermissions, in order to prevent the fame laceration; for which purpose too, we ought to lubricate the perinzum with pomatum during those short intervals, and keep the palm of one hand close preffed to it and the neighbouring parts, while with the other we pull at the extremity of the handles of the forceps; by which means we preferve the parts, and know how much we may venture to pull at a time. When the head is almost delivered, the parts thus stretched must be slipped over the forehead 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 refts at the under part of the os pubis, the head turns upon it as upon an axis. In preternatural cafes alfo, the body being delivered, must 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 pushed up in an imaginary line from the os externum to the middle fpace betwixt the navel and scrobiculus cordis of the woman; or, in other words, the handles of the forceps are to be held as far back as the perinæum will allow. The introduction of the other hand to the opposite fide, will, by preffing the child's head against the first blade, detain it in its proper place till the other can be applied ; or, if this pressure should not seem sufficient, it may be supported by the operator's knee.

When the head is come low down, and cannot be brought farther, because one of the shoulders rests above the os pubis, and the other upon the upper part of the facrum, let the head be ftrongly grafped with the forceps, and pushed up as far as possible, moving from blade to blade as you push up, that the shoulders may be the more easily moved to the sides of the pelvis, and turning the face or forehead a little towards one of them; then the forehead must be brought back again into the hollow of the facrum, and another effort made to deliver; but should the difficulty remain, let the head be pushed up again, and turned to the other fide; because it is uncertain which of the fhoulders refts on the os pubis or facrum. Suppole, for example, the right fhoulder of the child flicks above the os pubis, the forchead being in the hollow of the facrum; in this cafe, if the forehead be turned to the right-

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right-hand fide of the woman, the fhoulder will not move; whereas, if it be turned to the left, and the head at the fame time pufhed a little upwards, fo as to ralfe and difengage the parts that are fixed, the right fhoulder being towards the right-hand fide and the other to the left fide of the brim of the pelvis, when the forehead is turned back again to the hollow of the faeruni, the obflacle will be removed, and the head be more eafily derivered. This being performed, let the foreeps be unlocked and the blades difpofed cautioufly 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, may be committed to the nurfe. The next care is to wipe the blades of the forceps fingly, under the clothes, flide them warily into your pockets, and deliver the placenta.

Though the foreeps are covered with leather, and appear fo fimple and innocent, I have given directions for conecaling them, that young practitioners, before their characters are fully eftablished, may avoid the calumnies and misrepresentations of those people who are apt to prejudice the ignorant and weak-minded against the use of any instrument, though ever for necessary, in this protection; and who, taking the advantage of unforeleen accidents which may afterwards happen to the patient, charge the whole missfortune to the innocent operator. See collect, xxvii, and tab, xiv, xvii, xviii, xix.

N U M B. II.

WHEN THE FOREHEAD IS TO THE OS PUBIS,

W HEN the forehead, inflead of being towards the facrum, is turned forwards to the os pubis, the woman must be laid in the fame position as in the former cife; becaufe here alfo the ears of the child are 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 possible, according to the foregoing directions, the head mult be pufied up a little, and the forehead turned to one fide of the pelvis; thus let it be brought long until the hind-head arrives at the lower part of the ischium; then the forehead must 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 still towards the fides of the pelvis; then let the quarter-turn be reverfed, and the forehead being replaced in the hollow of the facrum, the head may be extracted as above. In performing these different turns, let the head be pushed up or pulled down occafionally as it meets with least refistance. In this c fc, when the head is fmall, it will come along as it prefents ; but if large, the chin will be fo much preffed aga nft the breaft, that it cannot be brought up with the half-round turn, and the woman will be tore if it comes along. See collect. xxviii, and tab. xx. xxi.

N U M B. III.

WHEN IT PRESENTS FAIR AT THE BRIM OF THE PELVIS. WHEN the forchead and face of the child are turned to the fide of the velvis (in which cafe it is higher than in the first fituation) it will be difficult, if the woman lies on her back, to introduce the forceps fo as to grafp

the head with a blade over each ear; becaufe the head is often preffed fo hard against the bones, in this position, 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 push one of them up between the fingers and the child's head. When things are fo fituated, the best posture for the woman is that of lying on one fide, as formerly directed, becaufe the bones will yield a little, and the forceps (of confequence) may be the more easily introduced.

- Suppose 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 pais the os internum; if the head is fo immoveably fixed in the pelvis, that there is no paffage between them, let his left hand be pushed up between the facrum and the child's head, which being raifed as high as poffible above the brim of the pelvis, he will have room fufficient for his fingers and forceps; then let him flide 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 before directed, and pushes up the other blade flowly and gently, that he may run no risk of hurting the os internum or bladder; and here alfo keep the handle of it as far backwards as the perinæum will allow; when the point has passed the os internum, let him flide it up farther, and join the legs by locking them together, keeping them ftill in a line with the middle fpace, betwixt the navel and fcrobiculus 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 move 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 those cases that require the forceps, if the head cannot be raised 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, ifchia, 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 must be taken that they be exactly opposite 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 cannot pafs 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 pass along the ears; but if the forehead thould remain inimoveable, or, though moved, return to its former place, let one blade be introduced behind one ear, and its fellow before the other; in which cafe the introduction is fometimes more eafily performed

[PART I:

formed when the woman lies on her back, than when fhe is laid on one fide. See collect. xxix. and tab. xiii. xvi.

NUMB. IV.

WHEN THE FACE PRESENTS.

WHEN the face prefents, rolling on the upper part of the pelvis, the head ought to be puthed up to the fundus uteri, the child turned and brought by the feet, according to the directions that will be given when we come to treat of preternatural deliveries; becaufe the hind-head is turned hack on the fhoulders, and, unlefs very fmall, cannot be pulled along with the forceps; but fhould it advance pretty faft in the pelvis, it will be formetimes delivered alive without any affiftance. But if it defcends flowly, or, after it is low down, flicks for a confiderable time, the long preffure on the brain frequently deftroys the child, if not relieved in time by turning or extracting, with the forceps.

When the head is detained very high up, and no figns of its defcending appear, and the operator, having firetched the parts with a view to turn, difcovers that the pelvis is narrow and the head large, he must not proceed . with turning, becaufe after this hath been performed, perhaps with great difficulty, 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 position, and move it fo with our hand as to bring the crown of the head to prefent; and indeed this thould always be tried, and more effectially 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 impossible to be done when the waters are evacuated, the uterus firongly contracted on the child, and the upper part of the head fo flippy as to elude our hold; infomuch, that even when the preffure is not great, we feldom fucceed unless the head is fmall, and 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 adviseable to wait with patience for the defcent of the head, fo as that it may be delivered with the forceps, and confequently the child may be faved ; but if it still remains in its high situation, and the woman is weak and exhausted, the forceps may be tried; and should they fail, recourse must be had to the crotchet, becaufe the mother's life is always to be more regarded than the fafety of the child.

When the face of the child is come down, and flicks at the os externum, the greatest part of the head is then fqueezed down into the pelvis, and, if not speedily delivered, the child is frequently lost by the violent compression of the brain; besides, when it is so low down, it feldom can be returned, on account of the great contraction of the uterus. In this case, when the chin is turned towards the cs pubis, at the lower part of that bone, the woman must be laid on her back, the forceps introduced as formerly directed in the first case, and when the chin is brought out from under the os pubis, the head must 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 must 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

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; because the chin, being difengaged from this bone, can be pulled up over it externally; by which means two inches of room at least will be gained for the more. eafy delivery of the fore and hind-head, which are now preffed against the: perinzum. When the chin is towards the facrum, and the hind-head preffed back betwixt the shoulders, fo that the face is kept from rising up below? the os pubis, the head must be pushed up with the hand to the upper part of the pelvis, and the forceps introduced and fixed on the ears ; the hiad -. head must be turned to one fide of the pelvis, while the chin is moved to the other fide, and, if poffible, to the lower part of the ifchium; then the: hind-head must be brought into the hollow of the factum, with the chin below the os pubis, and delivered as above directed. If this cannot be done, 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 pulk the face and forehead backwards and upwards into the hollow of the facrum.

For when the chin points to the back part of the pelvis, the forchead is fqueezed against the os pubis, while the hind-head is pressed upon the back ' betwixt the shoulders; fo that the head cannot be delivered unless the occiput can be brought out from below the os pubis, as formerly described. See tab. xxiii. xxv. xxvi.

THE fum of all that has been faid on this head, may be comprehended in the following general maxims :

V.

NUMB:

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 using the forceps. If we were to take our observations from what we feel of the head at the os pubis, we should be frequently deceived, because 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 cafe, the largest part is equal with the brim. When it is in this fituation, we may be almost certain of facceeding with the forceps; and when the head is fo low as to protrude the external parts, they never fail. But these things will differ according to different circumstances, that may occasion a tedious delivery.

Let the operator acquire an accurate knowledge of the figure, fhape, and dimensions of the pelvis, together with the shape, fize, and position 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 belly, whether the lies on her fide or back, to give room to apply and to move the forceps up or down or from. fide to fide.

Let the parts be opened and the fingers pais the os internum; in order to which, if it cannot be otherwife accomplifhed, let the head be raifed two or three inches, that the fingers may have more room; if the head can be raifed above the brim, your hand is not confined 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 fingers 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, fhould pafs along the ears, becaufe in that cafe they feldom or never hurt or mark the head.

They ought to be pushed up in an imaginary line, towards the middle fpace between the navel and fcrobiculus cordis, otherwise the ends will run against 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 must be turned to below the os pubis, and the hind-head into the hollow of the facrum.

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

The head must be always brought out with an half-round turn, over the outfide of the os pubis; for the prefervation of the perinæum, which must at the fame time be fupported with the flat of the other hand, and flide gently backwards over the head.

: When the head 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, instead of advancing, is long detained in that fituation, from any of the forementioned caufes of laborious cafes, and the operator cannot exactly diftinguish 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 ought 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.

· Almost all these directions are to be followed, except when the head is fmall; 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 strongly contracted before the shoulders, and fo close to the neck of the child as to prevent its advancing, even when the head is fo loofe in the pelvis, that we can fometimes push 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 restraint at the brim; and when it passes 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 cafe should be a caution against breaking the membranes too foon, because the uterus may contract too forcibly and too long before the shoulders : 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 directed. By these rules, delivery may (for the most part) be performed with ease and fafety. Nevertheless the head is fometimes fo fqueezed

fqueezed and locked in the pelvis, and the häiry fealp fo much fwelled, 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 polition generally removed by remembering; that in those cafes where the head is fqueezed down with great difficulty, the ears are for the most 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 towards 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 occasions, 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 refistance at the points, they must not be forcibly thrust up, left they pass on the outside of the os uteri and tear the vagina, which together with the womb would be included in the instrument and pulled along with the head: for this reason, if the blade does not easily pass, let it be withdrawn a little downwards, as before directed, and pushed up again, moving the point close to the head; if the ear-obstructs its passage, let the point be brought a little outwards: and by these cautious essays it will at length pass without farther resistance, and ought to be advanced a considerable way in order to certify the operator that he is not on the outside 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, first to one fide, and then to the other, until he shall have found the direction in which it comes most easily along.

If at any time we find the forceps begin to flip, we muft reft and puft 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 reftum, 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 forehead 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 polition of the head; and if it be detained high up in the pelvis, in confequence of the woman's weaknefs, the rigidity of the parts, the circumvolutions or fhortnefs of the funis, or the contraction of the uterus over the fhoulders of the child, the forceps will frequently fucceed when the fœtus cannot be turned; but if the head is large or the pelvis narrow, the child is feldom faved either by turning or using 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 ftripes of wash-leather after they shall M. have been used, especially in delivering a woman suspected of having an infectious distemper. See collect. xxx.

SECT. V. WHEN AND HOW TO USE THE CROTCHET, N.U.M.B. I. THE SIGNS OF A DEAD CHILD,

WHEN the head prefents, and cannot be delivered by the labourpains; when all the common methods have been used without fuccefs, the woman being exhausted, and all her efforts vain ; and when the child cannot be delivered without fuch force as will endanger the life of the mother, because the head is too large or the pelvis too narrow; it then becomes abfolutely neceffary to open the head and extract with the hand, forceps, or crotchet. Indeed, this last method formerly was the common practice when the child could not be eafily turned, and is still in use with those who do not know how to fave the child by delivering with the forpeps; for this reason their chief care and study was to distinguish whether the foctus was dead or alive; and as the figns were uncertain, the operation was often delayed until the woman was in the most imminent danger ; or, when it was performed fooner, the operator was frequently accufed of rashness, on the supposition that the child might in time have been delivered alive by the labour-pains. Perhaps he was fometimes confcious to himfelf of the justice of this imputation, although what he had done was with an upright intention.

The figns of a dead fœtus were, first, the child's ceasing 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 fwelling or tumour of the hairy fcalp. Fifthly, an uncommon laxity of the bones of the cranium. Sixthly, the discharge of a fœtid ichor from the vagina, the effluvia of which furrounding the woman, gave rife to the opinion that her breath conveyed a mortified smell. Seventhly, want of motion in the tongue when the face prefents. Eighthly, no perceivable pulsation in the arteries of the funis umbilicalis, when it falls down below the head; nor at the wrift, when the arm prefents; and no motion of the fingers. Ninthly, the pale and livid countenance of the woman. Tenthly, a collapsing and flaccidity 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 she lies. Twelfthly, a feparation of the hairy fcalp on the flightcft touch, and a diftinct perception of the bare bones.

All or most of these figns are dubious and uncertain, except the last, which can only be observed after the focus hath been dead several days. One may also certainly pronounce the child's death, if no pulsation hath been felt in the navel-string for the space of twenty or thirty minutes; but the same certainty is not to be acquired from the arm, unless the skin can be stripped off with ease.

NUMB, II.

WHEN THE CROTCHET IS TO BE USED.

MIDWIFERY is now fo much improved, that the neceffity of deftroying the child does not occur fo often as formerly. Indeed it never should be done, except when it is impossible to turn or deliver with the forceps;

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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 neceffary 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 possibly be delivered in any other way, and is in imminent danger of her life, the best practice is undoubtedly to have recourfe to that method which alone can be used for her prefervation, namely, to diminish the bulk of the head.

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

SECT. VI,

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 *fpeculum matricis*, in order to ftretch the bones afunder, and thereby increase the capacity of the bason; 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 bittory, or a short broad-bladed knife in form of a myrtle-leaf, or with a crooked bistory with a long handle; then a small pair of forceps with teeth were introduced; and one blade being infinuated into the opening, they laid hold of the skull and pulled the head along; they likewise made use of different kinds of crotchets both sharp and blunt; and when the head was lower down, they practifed the fame expedient.

Albucafis has allo 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 other later contrivances used and recommended by different gentlemen of the profession, such as Mauriceau's *tire-tete*, Simpson's scalpring, and Oald's *terebra occulta*, with the improvement made in it by Dr. Burton, of York; and all these instruments may be used with success, if cautious managed, fo as not to injure the woman; except the *fpeculum matricis*, which far from answering the supposed intention of it, namely, to extend the bones of the pelvis, can ferve no other purpose than that of bruising or inflaming the parts of the woman.

The following method, if exactly followed according to the circumflances of the cafe, feems of all others hitherto invented, the eafieft, fafeft, and most certain, especially when it requires great force to extract the head

SECT. VII.

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

The operator must be provided with a pair of curved crotchets, made according to the improvements upon those proposed by Mesnard, together with a pair of sciffars about nine inches long, with selts near the middle of the blades, and the blunt-hook.

NUMB.

NUMB. I.

OF THE WOMAN'S POSTURE.

THE patient ought to be laid on her back or fide, in the fame polition directed in the use of the forceps; the operator must be feated on a low chair, and the instruments concealed and disposed in the fame manner, and for the fame reason, mentioned in treating of the forceps. The parts of the woman have already, in all likelihood, been sufficiently dilated by his endeavours to turn or deliver with the forceps; or if no efforts of that kind have been used, because by the touch he had learned that no such endeavours would succeed, as in the case of a large hydrocephalus, when the bones of the cranium are often separated at a great distance from each other, or upon perceiving that the pelvis was extremely narrow; if, upon these considerations, he hath made no trials in which the parts were opened, let him gradually dilate the os externum and internum, as formerly directed.

NUMB. II.

THE head is commonly kept down pretty firm, by the ftrong contraction of the uterus round the child; but fhould it yield to one fide, let it be kept fleady by the hand of an affiltant, preffing upon the belly of the woman; let him introduce his hand, and prefs two fingers against one of the futures of the cranium; then take out his fciffars from the place in which they were deposited, and guiding them by the hand and fingers till they reach the hairy fcalp, push them gradually into it, until their progress is ftopped 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 puthed with a moderate force; but not fo keen as to 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 must take hold of the handles with each hand, and pull them afunder, that the blades may dilate and make a large opening in the skull; then they must be shut, 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 closed, and introduced even beyond the refts, when they must again be opened, and turned half round from fide to fide, until the ftructure of the brains is fo effectually destroyed, that it can be evacuated with eafe. This operation being performed, let the feissars be shut and withdrawn; but if this instrument will not answer the last purpose, the business may be done by introducing the crotchet within the opening of the skull. The brain being thus destroyed, and the instrument withdrawn, let him introduce his right hand into the vagina, and two fingers into the opening which hath been made, that if any fharp splinters of the bones remain, they may be broken off, and taken out, left bey fhould injure the woman's yagina, or the operator's own fingers.

PART []

SMELLIE'S MIDWIFERY.

NUMB. 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 weak, he must defire the woman to affift his endeavours by forcing down; and thus the child is frequently delivered; because, the water being evacuated, the head collapses of course.

NUMB. IV.

BUT when the pelvis is narrow, the head requires much greater force to be brought along, unlefs the labour-pains are flrong enough to prefs it down, and diminifh it by fqueezing out the cerebrum; in this cafe, let the operator 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 fkull (as above directed) that the head may be kept fleady, 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 must 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 flowly, 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 must be 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 fmallend of the blunt-hook into the opening, and placing my fingers against the point on the outside of the skull, pull with greater and greater force; but as we can feldom take a firm hold in this manner, if it does not foon answer the purpose, I introduce my fingers, as above, farther, and flide the point up along the outside above the under jaw; and have fucceeded feveral times with this instrument, except when the pelvis was so narrow as to require a greater force, when we must use the others. No doubt it is better first to try the blunt-hook, because the managing the point gives less trouble, and it can be casier introduced with the point to one fide. When the instrument 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 published, I contrived a sheath to cover the sharp point of the curved crotchets, which may be introduced and used in the same manner as the blunt-hook; the sheath may be taken off, or kept on as there is occasion.

If, when the head is delivered in this manner, the body cannot be extracted, on account of its being much fwelled, of a monttrous fize, or (which is most commonly the case) the narrowness of the pelvis, let him defist from pulling, left the head should be separated from the body, and, introducing one hand so as to reach with his singers to the shoulder-blades or breass, conduct along it one of the crotchets, with the point toward the secue, and fix it with a firm application; then withdrawing his hand, employ it in pulling the crotchet, while the other is exerted in the same manner upon the head and neck of the child; if the instrument begins to lose its hold, he must push it farther up, and fixing it again, repeat his efforts, applying it still higher and higher, until the body is extracted.

Some writers direct us to introduce the crotchet within the fkull, and, prefling one hand against the point in the outfide, pull along. But this is a triffing expedient, and if great force is used, the instrument 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 purchase to force along the head, which collapse, and is diminiss as the brain is discharged, and never comes down in a broad flattened form, according to the allegations of some people, whose ideas of these things are imperfect and confused; for, if this were the case, the same would happen when the head is forced down from behind with labour-pains into a narrow pelvis, because the prefsure, in both cases, acts in the same 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 longish form.

Although many people have exclaimed against the crotchets as dangerous instruments, from ignorance, want of experience, or a worse principle, as formerly observed; yet I can assure the reader, that I never either tore or kurt the parts of a woman with that instrument. I have indeed several times hurt the infide of my hand by their giving way, till I had recourse to the curve kind, which in many respects have the advantage of the straight; 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 small or large forceps; and if it is not very large, or the pelvis very narrow, they may deliver by fqueezing and leffening the head; but, in my courfe of practice, I have been concerned in many cafes, where the pelvis was fo diftorted and narrow, that even after opening the head largely, I have pulled at the bones in time of ftrong pains, but all to no purpose, although some of them actually came away. Nay, after fixing a crotchet firmly above and near the chin or basis of the skull, and using 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 increase the force of pulling to the utmost of my ftrength; and before we had the curve crotchet, I have been fo fatigued from the straight kind slipping their small hold fo often, that I have fearcely been able to move my fingers or arms for many hours after; and if this force had not been used, the mother must have been lost, as well as the child. See collect. xxxi. and tab. xxviii. xxxix.

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SMELLIE'S MIDWIFERY:

CHAP. IV.

Of Preternatural Labours.

SECT.I.

RETERNATURAL labour, according to the division mentioned, chap. i. fect. v. happens when, inftead of the head, fome other part of the body prefents to the os úteri. It has been thought by fome, that all labours in which the forceps and erotchet are used ought to be ranked in this class; because the head is certainly delivered by preternatural means; and that, when the feet or breech prefent, and the woman is delivered without any other affistance than that of labour-pains, the ease ought to be accounted natural. However, this division would embarrass and confuse the young beginners more than the other which I have chosen to follow, namely, that of reckoning by the manner in which the child is delivered, and calling all those 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 shoulders 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 these first, it may be proper to divide them into three classes. First, how to manage when the feet, breech, or lower 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 foctus 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 child prefenting either with the fore or back parts, and lying in a circular form; or with the fhoulders, breaft, neek, face, ear, or vertex, and lying in a longish form, with the feet and breech towards the fundus of the womb, which is contracted like a long sheath, close to the body of the foctus; and when the fore parts of the child lie towards the fide, fundus, fore or back part of the uterus. Da-venter, who practifed at Dort, in Holland, alledges, that preternatural as well as laborious cafes proceed from the wrong polition 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 be always turned to the oppofite fide. This opinion he grounded upon the fuppofition that the placenta always adheres to the fundus: but experience shows, that it adheres to different parts of the womb, fometimes even to the infide of the os uteri. For the most part, indeed, the os internum is turned backwards towards the eoccyx, being in a straight line with the fundus up to the middle space betwixt the navel and fcrobiculus cordis.

Daventer was alfo of opinion, that if, upon touching, the mouth of the womb was not felt in the middle, the woman ought to be affifted by opening the parts; and if this did not fuceeed, by turning and delivering by the feet without delay. We fometimes, indeed, meet with pendulous bellies, in which the os uteri is farther back than ufual; but even in these cases, when the head is not very large, nor the pelvis narrow, and the patient is vigorous and the labour-pains strong, the woman, with a little patience, is

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for the most part fafely delivered without any other than common affistance; or should the cafe prove tedious, she may be affisted in time of pain by introducing one or two singers into the os uteri, and gradually bringing it more forwards. When the belly is very pendulous, change of position from time to time is of service, especially lying upon her back, with the shoulders low and the breech raifed.

In women that are difforted, 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.

SECT. II.

THE FIRST CLASS OF PRETERRATURAL LABOURS:

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

THESE, for the most part, are accounted the easiest, even although the uterus should be strongly contracted round the body of the child, and all the waters discharged.

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, push up and ftretch 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 must make allowance for the difference in turning, by bringing the last a quarter farther than the place at which the head is to be placed; fo that the face or forehead which was towards one of the groins, will be forced to the fide of the facrum, where it joins with the ifchium, This quarter-turn of the body must be again undone, without affecting the polition 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 shoulders, let him slide his hand, flattened (suppose the right if she 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 foctus; by which means the chin will be pulled to the breaft, and the forehead into the hollow of the facrum. And this expedient will also raife upward the hind-head, which refts at the os pubis.

When the fore-head is come fo low as to protrude the perinæum, if the woman lies on her back, let the operator fland 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 would infallibly happen if the forehead forehead fhould be detained at the upper part of the factum. Nor is there any great force required to obviate this inconvenience, or the leaft danger of hurting the mouth, if the head is not large: for if the head cannot be brought along with moderate force, and the operator is afraid of injuring or over-ftraining the lower jaw, let him pufh his fingers faither 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 occasion for pufhing up to open; but only to pull along and manage as above directed; ftill remembering to raife the forehead flowly from the perinæum, which may be preffed back with the fingers of his other hand.

In the cafe of a narrow pelvis, or large head, which cannot be brought along without the rifk of over-firaining the neck, let him flide 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 fingers along the arm, until they reach the elbow, which muft be pulled 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 the 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 fucceed, let the body be pulled to the other fide, fo as to bring down the other thoulder; 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 him 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 him 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 turn, as above directed.

Daventer and others; from a miltaken notion that the chief refiftance is at the coccyx or lower part of the pelvis, have directed us to prefs the shoulders of the child downwards; fo as to bring the hindhead first from below the os pubis : not confidering that the refiftance is occasioned by the thickeft part of the head being detained at the upper part of the pelvis, where the lowcit vertebra of the loins and the upper part of the facrum jut inward; and that, until the forehead hath paffed into the hollow of the facrum, this method cannot fucceed. The bufinefs, therefore, is to pull upward at the back part of the neck, which refts against 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 ftops, and the fame circular motion is ftill the most proper; though now we can bring out the head the other way, but not before. Sometimes, indeed, I have found Daventer's method fucceed better than the other, when the head is low down; and the chief refiftance is in the lower parts; but this is very feldom the cafe; however, when the forehead is hindered from coming down into the lower part of the facrum by an uncommon shape of the head or pelvis, and we cannot extract it by bringing it out with an half-round turn at the os pubis, we must try to make this turn in the contrary direction; and inflead of introducing our fingers into the child's mouth, let the break of it reft on the palm of your left-hand (the woman being on her back) and placing the right on its shoulders, with

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the fingers on each fide of the neck, prefs it downward to the perinzum. In confequence of this preffure, the face and chin being within the perinzum, will move more upward, and the head come out with an halfround turn from below the os pubis : for the centre of motion is now where the fore part of the neck preffes at the perinzum; whereas, in the other method, the back part of the neck is against 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 the facrum, effectially 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, instead 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 polition frequently enfues when the fore parts of the child's body are turned from the os pubis down to the facrum. If they are turned to the left fide of the woman, the left-hand and arm are commonly brought in before the face, and vice verfa; but in these cases the elbow is for the most part easily come at, becaufe it is low down in the vagina, and then there is a necessity for bringing down one or both arms before the head can be delivered : from whence we may conclude, that those authors are fometimes in the wrong who expressly forbid us to pull down the arms. Indeed, if the pelvis is not narrow, nor the head very large, and the arms lie along the fides of the head, there is feldom occasion to pull them down; because the pelvis is widest at the fides, and the membranes and ligaments that fill up the space betwixt the facrum and ifchia yield to the pressure, 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 flicks in the pelvis, they certainly ought to be brought down; or even when the head comes along with difficulty. Neither is the alledged contraction of the os internum round the neck of the child fo frequent as hath been imagined; because for the most part the contraction embraces the head and not the neck: but should the neck alone suffer, 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 also a sufficient 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 feldom 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 neck, 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 perinzum. When the operator with his fingers in the child's mouth cannot pull down the forehead into the hollow of the facrum, let him puft the force-finger of his left-hand betwixt the neck and os pubis, in order to raife the hind head upward; which being done, the forehead will come down down with lefs difficulty, especially if he pushes 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 pulhed 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 diminished, it contracts and comes in contact with the body of the child; fo that the breech is pulhed 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 lubricate the parts as they flow off, and the breech, if not too large, or the pelvis narrow, is pushed down. In this case, when the nates prefent equal and fair to the os uteri (as was formerly observed, when treating of the polition of the child, book iii. chap. i. fect. 1. it was most probable that one fide of the foctus was toward the fore part, and the other to the back part of the uterus) fo it is also reasonable 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 vertebræ of the loins; in this polition, one hip will prefent, and the other reft on the os pubis; but when forced along with pains, the last will be gradually moved more and more to the groin of that fide, and from thence flip down at the fide of the bason; the lower at the same 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, paffing in below the arch of the os pubis, which is the best position; 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 so contracted that he cannot take fufficient hold, let it be opened flowly, fo as to allow his hands to be pushed up with ease; 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, so as to obtain a firm hold; then pull along from fide to fide, and if the back of the child is to the os pubis, continue to affift in this manner, until the body and head are delivered. The legs being commonly firetched up along the belly and breast, when the child is extracted as far as the fhoulders, they come out of themfelves, or are easily brought down; but if the belly of the child is turned to one fide, or to the os pubis, in that case, 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 must be again reversed, and then he may pull along and deliver.

If the body cannot be turned until the thighs and legs are brought down, either on account of the bulk, or becaufe the hold on the breech is not fufficient, let him continue to pull along, until the hams appear on the outfide of the os externum; then feize one of the knees with his finger and thumb, and extract that leg; and let the other be brought down in the fame manner. If he attempts to pull out the legs before the hams arrive at this

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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 almost as far as the breast, before the legs could be brought out, it must be pushed up again to the navel, or above it; because, without this precaution, the shoulders would be for much engaged in the pelvis, that it would be impracticable to make the motions formerly directed, so as to turn the face to the back of the mother; whereas, when the body is pushed up, those turns can be effected with greater ease, because the belly being in the pelvis, it yields easier to the form of the bason. When the face is turned properly 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 the 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 pufth up the breech 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 direct him to the legs, which muft be brought down with his fingers, while at the fame time he puftes up the hams with his thumb, that in cafe the legs lie ftraight up, they may 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 downward, they are the more eafily brought out.

If the breech be ftrongly preffed into the upper part of the pelvis, let him alfo push it upward and to one fide, that his hand and arm may have free passage; 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 flide up his other hand into the vagina, and a finger or two into the outfide 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 must be introduced into the uterus; if they lie to her right fide, the left-hand will better answer the purpose; and if they are toward her back or belly, either hand may be indifferently used.

In all cafes where the breech prefents, the fafeft 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 affiftance of the fingers, let the operator introduce the curved handla of the blunt crotchet into one of the groins, his fingers into the other, and pull very cautioufly, in order to prevent a fracture, or diflocation of the thigh-bone, which might otherwise happen from the ufe of this inftrument, the blunt point of which muft be fufficiently paft the groin. A fillet may alfo be ufed for the fame purpofe. I have, in the foregoing cafes of this fection, fuppofed the woman laid on her back, her legs fupported, and breech to the bed-fide, this being generally the beft polition for delivering the body and head. Indeed, when the child is fmall, fhe may lie on her fide, and the fame methods be ufed in delivering, provided the operator fill remembers, that in this polition the ilium and ifchium of one fide are down, and the others up. Befides, when the breech is puffed 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 great, 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 fhe lies upon her fide. See collect. xxxii. and tab. xxix, xxx, xxxv.

SECT. III.

THE SECOND CLASS OF PRETERNATURAL LABOURS.

WHEN the membranes are broke, but the face, fhoulder, or fome other part of the child, being pufhed into the pelvis, locks up the os internum, fo as that a finall quantity of the waters hath been difcharged, the 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 push them down fo as to dilate the os internum, more or lefs.

When the woman at any time in the four last months is feized with a violent flooding that cannot be restrained, and unless speedily delivered, must lose her life; if labour-pains cannot be brought on by stretching the parts, delivery must be forced; but if she is in labour, and the membranes. have been pushed down with the waters, they may be broke, by which means the flooding is frequently diminished, and the child delivered by the a bour-pains.

In these three different cases, if we can prevent the firong contraction of the uterus, by keeping up the waters, we can also, for the most part, turn the child with great ease, even in the very world positions.

NUMB. I.

IN the first case, let the operator flowly introduce his hand into the vagina, and his fingers between that part of the child which is pushed down, and the os internum. If in fo doing, he perceives fome of the waters coming along, he must run up his hand as quick as possible into the uterus, betwixt the infide of the membranes 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 pass. Let him turn the child with its head and shoulders up to the fundus, the breech down to the lower part of the uterus, and the fore parts toward the mother's back. Let the hand be pushed no farther up than the middle of the child's body; because if it is advanced as high as the fundus, it must be withdrawn lower before the child can be turned; and by these means

means the waters will be discharged, and the uterus of consequence contract so as to render the turning more difficult.

NUMB. II.

IN 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 fufficiently dilated, and the woman is in no danger, we may let the labour go on until the parts are more firetched; 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 puth 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; flide 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 polition, and affift as directed in lingering or laborious cafes.

NUMB. III.

IF the woman (in the third cafe) is attacked with a violent flooding, occafioned 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 vain been tried to leffen and reftrain the difcharge, according to the directions in book ii. chap. iii. feft. 3. the operator ought to pronounce the cafe dangerous, and prudently declare to the relations of the patient, that unlefs fhe is fpeedily delivered, both fhe and the child muft perifh; obferving at the fame time, that by immediate delivery they may both be faved; let him alfo 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. Doubtlefs, fome cafes may happen in which this may be neceffary; though in all those 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 ftretching the os internum labour-pains are brought on, let the operator flowly 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 the floods to fuch a degree as to be in danger of her life, and the dilatation does not bring on labour, at leaft not enough for the occation, the must immediately be delivered in the following manner. But in the first place let her friends be apprifed of the danger, and the operator be aware of promiting to fave either mother or child; for I have known the mother die in a few minutes after delivery, although to all appearance the feemed able to undergo the operation, and the child loft from the head flicking in the pelvis; others, rgain, who were

were apparently much more weak and exhausted, have recovered, and the child hath been faved.

The operator having performed his duty in making the friends acquainted with the fituation of the cafe, muft 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, first 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 fliding the hand. along between the outfide of the membranes and infide of the uterus; then he must 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 must either withdraw that hand and introduce the other on the opposite fide, or break the membranes at the lower edge of the placenta.

The greatest danger in this case frequently proceeds from the sudden emptying of the uterus and belly; for when labour comes on of itself, or is brought on in a regular manner, and the membranes are broke, the flooding is gradually diminished; and first the child, then the placenta, is delivered by the pains; fo that the pressure or resistance is not all at once removed from the belly and uterus of the woman, which have time to contract by degrees; confequently those fainting-fits and convulsions are prevented which often proceed from a fudden removal of that compression under which the circulation was performed.

In order to anticipate thefe fatal fymptoms, I have (fometimes fuccefsfully) ordered an affiftant to prefs upon the woman's belly while the uterus was emptying, or, after having broken 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 flopped, or even diminifhed, I let the child remain in the uterus perhaps ten or fifteen minutes longer, then deliver; and, if the hæmorrhage is flayed, leave the placenta. to be expelled by nature. In all thefe flages, however, when the flooding is violent, we must deliver without lofs of time, remembering ftill the preffure upon the abdomen; for the woman is frequently fo very weak, that although labour could be brought on, fhe would not have flrength fufficient 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 first child, especially if she is past the age of thirty-five.

We fhould never refufe to deliver in these dangerous cases, even though the patient feems almost expiring; for immediately after delivery, the uterus contracts, the mouths of the vessels are shut up, fo that the flooding ceases, and she may recover, if she lives five or fix hours after the operation, and can be supported by frequent draughts of broth, jelly, caudle, weak cordial, and anodyne medicines, which maintain the circulation and gradually fill the empty vessels.

If, in time of flooding, fhe is feized with labour-pains, or if, by every now and then firetching with your fingers the os internum, the membranes ought to be broken; fo that, fome of the waters being difcharged, the uterus nterus may contract and fquecze down the fætus. This may be done fooner in those women who have had children formerly, than in fuch as have been in labour before: If, notwithstanding this expedient, the flooding ftill continues, and the child is not like to be foon delivered, it must be turned immediately; or, if the head is in the pelvis, be delivered with the forceps, but, if neither of these two methods will fucceed, on account of the narrowness of the pelvis or the bigness of the head, this last must be opened and delivered with the crotchet. In all these cases let the parts be dilated flowly and by intervals, in order to prevent laceration. See collect. xxxiii. and tab. ix, x, xi, xii, xxxiv.

SECT. IV.

THE THIRD CLASS OF PRETERNATURAL LABOURS.

WE have already observed, that the principal difficultics in turning children and bringing them by the feet, proceeded from the contraction of the uterus and bad position of the fœtus. If, the child lies in a round form, whether the fore parts are toward the os internum, or up to the fundus uteri, we can for the most part move it with the hand, fo as to turn the head and shoulders to the upper part, and the breech and legs downward; but if the child lies lengthways, the womb being contracted round it like a long sheath, the task is more difficult; especially if the head and shoulders of the child are down at the lowest part of the uterus, with the breech and feet turned up to the fundus:

Before I proceed to the method of delivery in the following cafes, it will not be improper to premise, 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-bcd or matrafs, in order to raife it fo that the breech may be higher than the shoulders; while an affistant fits on each fide, to fupport her legs and thighs, as directed in chap. ii. fect. 1. chap. iii. fect. 3. and one or two more affiltants ought to fit behind, or on each fide of her fhoulders, to keep her firm in that position. The operator ought to avoid all formality in point of drefs, and never walk about the room with fleeves and apron; for although fuch apparatus may be neceffary in hofpitals, in private practice it conveys a frightful idea to the patient and female spectators; the more genteel and commodious drefs is, a loofe washing 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 fhirt may be rolled up and pinned to the breast of his waistcoat. In natural labours, the sheet that hangs over the bed-fide is fufficient to keep kim clean and dry, by being laid in his lap; but in those cases where he is obliged to alter his position, a sheet 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 best and firmest position is to kneel with his leftknce on a cuthion, keeping up the right to fupport his arm; if the left-hand is introduced, the reverse of this disposition must take place; if the bed or couch is nigh, he ought to stand, but still remember to support the elbow on the knee. Thefe directions, howfoever trivial they may feem to old practitioners, may be ferviceable to young beginners.

The hand of the accoucheur, or operator, being introduced into the uterus, if he finds the breech below the head and fhoulders, ict him fearch 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 must try to turn the head and shoulders to the fundus, and the breech downward, by pushing up the first and pulling down at last; then proceed with delivery as before direct-This is commonly executed with eafe, provided fome part of the waed. ters still remain in the uterus; but, if the woman has been long in labour. and the waters discharged, the contraction of the womb is fo strong, that the child cannot be turned without the exertion of great force frequently repeated. In this cafe, the eafiest method, both for the patient and operator, is to push 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 greatest obstacle, by enlarging the cavity of the womb, fo as more eafily to feel and bring down the legs; then he may pufh up and pull down, as we have prefcribed above. But if the head and fhoulders still 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 pushed up, and he endea-vours 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 can with the other hand push up the shoulders, and be able in that manner to bring down the breech. He must continue this method of pushing up and pulling down, until the head and shoulders are raifed to the fundus uteri: for should he 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 crotchet; for the breech and part of the body may block up the paffage in fuch a mainer, as that the hand cannot be introduced to raife the head.

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

Those cafes are commonly the easieft in which the fore parts prefent, and the child lies in a round form, across the uterus, or diagonally, when the head or breech is above and over the os pubis, with the legs, arms, or navel-firing, or one or all of them, at the upper or lower part of the vagina, or on the outfide of the os externum. Those are more difficult in which, though the child lies in the fame round or contracted form, the back, floulders, belly, or breaft, are over the os internum; becaufe, if we cannot move the child round, fo as to place the head to the fundus, the legs are brought down with much more difficulty than in the other cafe;

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but if the fhoulder, breaft, neek, ear, face, or crown of the head prefents, and the legs and breech are up to the fundus uteri, the cafe is fill more difficult; becaufe, in the other two, the uterus is contracted in a round form, fo that the wrong polition 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, because 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 greatest difficulty; but when the neck, shoulder, back, or breast, prefents, the head is turned upward, and keeps the lower part of the womb diffended; so that, upon stretching the upper part, the child's head is more easily raised to the fundus.

NUMB. 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 externum. 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 palt the os internum, let it reft a little, while he feels with his fingers the polition of the fœtus; if the head and fhoulders lie higher than the breech, he must 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 flide 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 forced into the middle of the pelvis. See tab. xxxi.

In most of those 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, fo as to hinder the breech from coming along, and the legs from being extracted, let him pufh up the head and fhoulders to the fundus, and pull out the legs; then try, as above directed, to bring in the breech; and if it ftill flicks 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, pufh the head and fhoulders again up to the fundus, while at the fame time he pulls the legs and breech along with the feet. If the legs eannot 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 the lower parts with one hand, while the other is employed in pufhing it up, as before. By this double purchafe, the child may be turned even in the most difficult cafes; but the operator, in pulling, muft be aware of overftraining the ligaments of the joints.

If the legs can be extracted through the os externum, let a fingle cloth, warmed, be wrapped round them, in order to yield a firmer hold to the accoucheur: accoucheur; but when they can be brought no lower than the neck of the uterus and vagina, he may use one of these following noofes:

Let him take a itrong limber fillet, or foft garter, half woren, about one yard 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 ftrongly, and the other end paffed through this doubling in order to make the noofe, which being mounted upon the thumb and fingers of his hand, mult be introduced and gently flipped over the toes and feet of the child, fo as to embrace the ancles, and thus applied it muft be drawn tight with his other hand.

If the foot or feet fhould be fo flippy that his fingers cannot hold them and work over the noofe at the fame time, it mult 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 pull the extremity of the fillet, which hath paffed the eye at the upper end of the director; and after it is clofe drawn, bring down the inftrument.

Some use a small flender pair of forceps to grafp the ancles and flide the noose along them; others make use of a fillet with a noose 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 close by pulling the other end of the fillet down through the cavity of the tube: but there is feldom occafion for any of these inftruments, because we can for the most part bring the feet down into the vagina,

If the fillet or garter is too narrow or thin, let it be doubled in the middle, and the noole made by paffing the two ends through the doubling.

NUMB, II.

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, when the child is preffed into a round or (more properly) an oval figure, it may be for the most part moved round with one hand introduced into the uterus, the head and fhoulders pushed to the fundus, and the legs and breech to the os internum ; which being effected, 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 legs being toward the fundus, with the forc parts of the foctus turned either to the fide, back, or forc part of the woman's belly, and the whole lying in a longifh form, the uterus being clofely contracted around its body like a fheath (fee tab. xxxiv.) let the accoucheur introduce his hand into the vagina, and open the os internum, by pufhing up the fingers and hand flattened between the parts that pre-

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turn

fent and the infide of the membranes; and reft his hand in that fituation, until he can diffinguifh how the child lies, and form a right judgment how to turn and deliver: for if these circumstances are not maturely confidered, he will begin to work in a confused manner, fatigue himself 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 eafily reach the feet than in any other.

If they lie toward the fore part of the uterus, efpecially when the belly is pendulous, 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 fide 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 fleady, 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 body 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 polition of the mother adjusted, let the proper hand be introduced, and the first effort always made in pushing the presenting part up toward the fundus, either along the fides, 'back', or fore part of the uterus, as is most convenient. If this endeavour fucceeds, and the breech, thighs, or legs come down, the body may be delivered with eafe; but if the head, shoulder, breast, or neck, prefents, the other parts of the body being firetchied up lengthways, and the uterus fo firongly contracted around the child that the prefenting part cannot be raifed up, or, though pushed 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 to fave the strength of his hand and arm, as formerly di-.rected; and then proceed with his efforts until he shall advance his hand as far as the feet; for the higher his hand is pushed, the more will the uterus be stretched, and the more room granted for bringing the legs along; and if, in' pufhing up his hand, the fingers should be entangled in the navelftring or one of the arms, let him bring it a little lower, and pass 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 flide 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 ftraight 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 them down to the lower part of the uterus, fo as to apply the noofe, he mult try again to pufh up the body, in order ftill more to ftretch the uterus, and obtain a freer fcope to bring them down lower; then he may apply the noofe, and turn the child as above directed, until the head and fhoulders 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 flide 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 body being thus advanced, deliver as before directed.

When the fhoulder prefents, and the arm lies double in the vagina, let him pufh them both up; but, if this cannot be done, and the hand is prevented from paffing along, he muft bring down the arm, 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 muft feparate it at the joint of the fhoulder, if it be fo low down; or at the elbow, if he cannot reach the thoulder. 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 delivering in that way, is forced into the vagina, and part of it appears on the outfide of the os externum, a vaft 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 diffension cannot poffibly be effected, he muft fix a crotchet above the fternum, and turn the child by pufhing 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 b dy; then deliver first 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 be l.id down in fect. v.

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

NUMB. IV.

IF the navel-ftring comes down by the child's head, and the pullation is felt in the arteries, there is a neceffity for turning without loss of time; for, unless the head advances fast and the celivery is quick, the circulation in the veffels will be entirely obstructed, and the child confequently perish. If the head is low in the pelvis, the forceps may be fuccessfully used.

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 poffibly 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 keep it up, even although wo we could eafily raife the head; becaufe as one part of the funis is pufhed up with the fingers, another part falls down, and evades the reduction; and to raife it up to the fide, and not above the head, will be to no purpofe: when a little juts down at the fide of the head, our endeavours will for the most part be fuccefsful.

NUMB.V.

THE ancients, as well as fome of the moderns, advife, in all cafes when the upper parts, fuch as the fhoulders, breaft, neck, face, or ear of the child, prefent, to puth them upward, and bring in the head as in the natural way; observing, that the focus cught never to be delivered by the feet, except in the prefentation of the lower parts, fuch as the finall of the back, belly, fide, breech, or legs. Were it practicable at all times to bring the head into the right polition, a great deal of fatigue would be faved to the operator, much pain to the woman, and imminent danger to the child : he therefore ought to attempt this method, and may facceed when he is called before the membranes 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. ii. betwixt the womb and the membranes, which must be broke; and if he finds the head fo large, or the pelvis fo narrow, that it will be difficult to fave the child, provided the woman is vigorous and has ftrong 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 has a good chance to be delivered alive. (See chap. ii. fect. iii. No. 3.) Even after the membranes are broke, if the prefenting part hath fo locked up the os internum as to detain some portion of the waters (a circumstance eafily known in pufning up the part that prefents) he may eafily run up his hand speedily to keep them from being discharged, and act in the same 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; because in that case, we may be pretty certain of faving it. Befides, after the head is brought into the right polition, should the pains go off entirely (and this frequently happens) or a flooding comes on in confequence of the force which hath been exerted, he will find great difficulty in turning after the waters have been difcharged ; for it is harder to turn when the vertex prefents, than in any other polition ; whereas, in the cafe of a large head or narrow 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 either by the forceps or in the natural way, the head may be opened and extracted 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 been long broken, the waters difcharged, and the uterus firongly contracted round the body of the child, which it confines, as it were, in a mould; fo that I have frequently tried in vain to bring the head into the natural pofition; for this cannot be effected without first pushing up the part that prefents, for which purpose great force is required; and as one hand only can be introduced, when when the operator endeavours to bring in the head, the pufhing force is abated, to allow the pulling force to act; and the parts that hindered the head from prefenting are again forced down; belides, the head is fo large and flippy, that he can obtain no firm hold. He might, indeed, by introducing a finger into the mouth, lay hold of the under jaw, and bring in the face, provided the shoulder prefents; but instead of amending, this would make the cafe worfe, unlefs the child be very fmall; yet, granting the head could be brought into the natural position, the force necessarily excrted for this purpole would produce a flooding, which commonly weakens the patient and earries off the pains; and fter all, he must turn with lefs advantage; and if that eannot be performed when the head is brought in, he mult have recourfe to the laft and most difagreeable method ; whereas, when any other part prefents, we can always turn the child, 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 fuch rifks.

When I first began to practife, I frequently endeavoured to adjust the pofition of the head in this manner; but meeting with those infuperable diffeulties I have mentioned, I adhered to that method which I have always found certain and faste. I have likewise used the *impellens* of Albueasis, in order to keep up the shoulders or body until I could bring in the head; but the contraction was always fo great, that the instrument shipped, and was in danger of hurting the uterus. Indeed, when the ear, forehead, or the fontanel, prefented, I have, by pushing up, found the head come into the right position; I have likewise, when the forehead was toward the groin or fide of the pelvis, moved it more backwards, by which means the forceps were fixed with more ease; but I have much oftener failed, by the head returning to its former fituation.

The child 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 against the funis and belly as to stop the circulation in the rope; as also when the child is detained by the head after the body is delivered; in both eafes the danger must be obviated by an expeditious delivery ; and if the body is entangled in the navel-ftring, it must be disengaged as well as poffible, efpecially when the funis happens to be between the thighs. As I have before observed, many of these minute directions, in laborious and preternatural eafes, may be thought idle and triffing by those practitioners who, without minding any flated rules, introduce the foreeps, and taking hold on the head at random, deliver with force and violence; and who, in preternatural deliveries, thruft up their hands into the uterus, and, without confidering the polition, fearch for the fect, pull them down, and deliver in a hurry. Such practice may fometimes fueeeed; but will often destroy the child, and bruise and injurc the parts of the mother, even to the hazard of her life. See collect. xxxiv.

SECT. V. NUMB. I.

WART & ANTENNING PRODUCE

T H E legs and breech of the child being brought down, and the body properly turned with the fore parts to the mother's back, let the accoucheur endeavour to bring it along; but if it is detained by the fize of the belly, diffended with air or water (a cafe that frequently happens when the child has been dead for feveral days) let the belly be opened,

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by forcing into it the points of his sciffars; or he may tear it open with the sharp crotchet.

The body of the child being delivered, the arms brought down, and every method hitherto directed unfuccessfully used for the extraction of the head, which is detained by being naturally too large, over-offified, or dropfical, or from parrowness and diffortion of the pelvis; if the belly was not opened, and the child is found to be alive by the motion of the heart, or pulfation of the arteries in the finis, the forceps ought to be tried (fee tab. **xxxv.**); but if he finds it impracticable to deliver the head fo as to fave the life of the child, he must, according to some, force the points of the sciffars 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 a blunt or fharp hook. This operation rarchy fucceeds when the head is over-offified; but may answer the purpose when the bones are foft and yielding, or in the cafe of an hydrocephalus; becaufe in the first the aperture may fometimes be enlarged, and in the other the water will be evacuated fo as to diminish 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 pufhed 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 frame end, it is needlefs to multiply inftruments, effectially as this method is not fo certain as the following:

If, notwithstanding these endeavours, the head cannot be extracted, let the operator introduce his hand along the head, and his singers through the os uteri; then slide up one of the curved crotchets along the ear, betwixt his hand and the child's head, upon the upper part of which it must 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 grass the neck and shoulders, 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 skull are emptied; the head collapsing, is with more certainty extracted, and the instrument hath a firm hold to the last, at the forehead, os petrofum, and basis of the skull.

In introducing the crotchet, let the operator remember the caution given in chap. iii. fect. 5. He must not begin to pull until he is certain that the point of the instrument is properly fixed near the vertex; and he must keep the handle back to the perinzum.

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 pulling, the contents are evacuated, and the head is leffened. By thefe means the principal obftruction is removed; whereas the ftraight 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 have always fucceeded to my fatisfaction 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 opposite fide, lock and join them together, and pull along, moving and turning the head fo as to humour the shape of the pelvis. This method feldom fails to accomplish his aim, though sometimes very

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great force is required; in which cafe he must pull with leifure and caution.

NUMB. II.

I F all the expedients fhould fail, by reafon of the extraordinary offification or fize of the head, or the narrownefs and diffortion of the pelvis, after having ufed the crotchet without fuccefs, he must feparate the body from the head with a biftory or pair of feiffars; then, pushing 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 affiltant to prefs upon the woman's belly with both hands, in order to keep the uterus and head firm in that position; then open the skull with the feiffars, deftroy the ftructure of the brain, and extract with the crotchets, as directed in chap. iii. fect. 5.

The head is fometimes left in the uterus by those 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 presented in that position) pull at random with all their ftrength, fo that the neck is ftretched and feparated, and the head left behind. This may also happen to an expert accoucheur, when the child hath been dead for many days, and the body is much mortified, even though he hath used all the neceffary precautions.

In fuch a cafe, provided the head is not very 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 jutting-in of that bone, he muft endeavour to move it first 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 shin, he may lay hold of it, and affist delivery by pulling at it with his other hand; 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 fhall 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 overoffified, the crotchet will tear open the fkull, and the bulk being of confequence diminifhed, 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 crotchet along the other fide of the head, 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 polition, let him with his hand pulh up the head into the uterus, turn the forehead from the anterior to the fide or back part of it, and try to extract as before. If the child hath been dead fome time, and is much mortified, he must pull cautiously at the under jaw, becaufe, should that give way, he will have no other hold for pulling or keeping the head steady, when he attempts to extract with one crotchet.

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When the head is fo large, or the pelvis fo narrow, that none of thefe methods will fucceed, let him pufh up, and, turning the upper parts down ward, direct an affiftant to prefs the patient's belly with both 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 polition; then it must be opened and extracted, according to the directions given in chap. iii. fect. vii. numb. ii.

Although by thefe methods I have fucceeded in a few cafes of this kind, which have happened in my practice, yet as great difficulties may occur from inflammations of the pudenda, contraction of the uterus, flippinefs or largenefs of the head, and the narrownefs of the pelvis, it will not be 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 infinuated, 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 fend 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 feiffars, 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 tire-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 expensive. Having turned down the vertex as above directed, 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 inclose the head, moving them circularly and lengthways in a light and eafy manner, that they may pass over the inequalities of the scalp, and avoid the refistance of the head and uterus; when they are exactly placed at equal distances 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 be introduced into the uterus, the more eafily will both inftruments be managed.

When the pelvis is large, or the head fmall (in which cafes 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 flides off from one fide or the other.

If the placenta adheres to the uterus, let him first 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 finall, or the pelvis large, dilating the foramen magnum with the fciffars, 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-tete. See collect. xxxvi.

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	CHAP.V.
	· Of Twins.
	SECT. I.

WINS are supposed 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 increase, come in contact with that part, and with one another, and are fo prefied as to form one globular figure, and ftretch the womb into the fame form which it affumes when diffended by one ovum only; and that, during the whole term of uterine gestation, it is impossible to distinguish twins, either by the figure and magnitude of the uterus, or by the motion of the different fœtuses; for one child, when it is large and furrounded with a great quantity of waters, will fometimes produce as large a prominence (or even larger) in the woman's belly, than is commonly observed when she is big with twins. One child will alfo, by moving its legs, arms, and other parts of its body against different parts of the uterus, at the fame inftant or by intervals, yield the fame fenfation to the mother as may be observed in two or more children; for part of the motion in twins is employed on each other, as well as upon the uterus.

There is therefore no certain method of diftinguishing in these cases, until the first 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, just 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 does not come down before the fecond child, which is frequently the cafe, upon examining he will commonly feel the membranes with the waters pushed down through the os uteri; or, if they are broken, the head or some part of the body will be felt. If, therefore, the woman has strong pains, and is in no danger from floodings or weaknefs, provided the head prefents fair, and fecms 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 fully opened by the first delivery, he can introduce his hand with cafe; and as the membranes are for the most part whole. whole, the waters may be kept up, and the fœtus 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 first child prefents wrong, and in turning that he feels another, he must be aware of breaking the membranes of one while he is at work upon the other; but should they chance to be broke, and the legs of both entangled together (though this is feldom the cafe, because they are commonly divided by two fets of membranes) 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 same body; and one child being delivered, let the other be turned and brought out in the same manner. If there are more than two, the same method must take place, in extracting one after another.

In cafe of twins, the placenta of the first 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 diffinct cakes, feparate first one, then the other; but if they are joined together, forming but one mass, 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 diffinct, 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 veffels; although fuch a communication hath lately fallen under my obfervation. See book i. chap. iii. fect. v.

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

SECT. II. OF MONSTERS.

TWO children joined together by their bellies (which is the most common cafe of monstrous 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 class, and supposed to be the effect of two animalcula impregnating the fame ovum, in which they grow together, and are nourished by one navel-string, originally belonging to the fecundines; because the vessels pertaining to the coats of the veins and arteries do not anastomofe with the vessels belonging to the fætus.

In fuch a cafe, where the children were fmall, the adhefion hath been known to firetch in pulling 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 large, and the woman come to her full time, let him first attempt to deliver them by that method; but if, after the legs and part of the body of the first are brought down, the reft will not follow, let him flide up his hand, and with his fingers examine the adhesion; then introducing the feiffars between his hand and the body of the focus, endeavour to feparate them by fnip-

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ping through the juncture. Should this attempt fail, he must diminish the bulk in the best manner he can think of, and bring the body of the first, in different pieces, by pulling or cutting them as he extracts with the help of the crotchet.

No certain rules can be laid down in these cases, which feldom happen; and therefore a great deal must be left to the judgment and fagacity of the operator, who must regulate his conduct according to the circumstances of the case, and according to the directions given for delivering when the pelvis is narrow and the children extraordinary large.

Formerly, practitioners ufed ftraight 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 delivering the fœtus by the feet. But, no doubt, fome will happen in which it is impoffible to preferve or deliver the children without the help of inftruments; and in fuch an emergency, the feiffars are much fafer than knives, with which the operator runs the rifk of cutting the uterus or himfelf; whereas he is expoied to no fuch hazard from the other, which cut only betwixt the points. See collect. xxxviii.

S E C T. III.

OF THE CÆSARIAN 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 narrowness or distortion of the pelvis, into which it is fometimes impossible to introduce the hand; or from large excrescences and glandular fwellings that fill up the vagina, and cannot be removed : or from large cicatrices and adhesions in that part and at the osuteri, which cannot be feparated ; in fuch 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, exhausted with fruitlefs labour, violent floodings, or any other evacuation which renders her recovery doubtful, even if the were delivered in the natural way; in these circumstances it would be rafhnefs and prefumption to attempt an operation of this kind, 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 last century, and fonctimes with fuch fuccefs, that the mother has recovered, and the child furvived. The previous steps to be taken are, to strengthen the patient, if weak, with nourishing broths and cordials; to evacuate the indurated fæces with repeated clysters; and if the bladder is distended with urine, to draw it off with a catheter. These precautions being taken, she must be laid on her back. on a couch or bed, her side on which the incision is to be made being raifed up by pillows placed below the opposite fide: the operation may be performed on either side; though the left is commonly preferred to the right, because in this last the liver extends lower. The apparatus consists of a bistory, probe-feiss, large needles threaded, sponges, sponges, warm water, pledgets, a large tent or dosfil, compresses, and a 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 direction, 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, muft be flowly diffected and feparated, until he reaches the peritonæum, which muft be divided very cautioufly, for fear of wounding the inteftines that frequently flart up at the fides, efpecially if the membranes are broken, the waters difcharged, and the atterus contracted.

The peritonzum being laid bare, it may be either pinched up by the Engers, or flowly diffected with the biftory, until an opening is made fufficient to admit the fore-finger, which must be introduced as a director for the biftory or fciffars in making an effectual dilatation. If the inteffines push out, let them be pressed downwards to as that the uterus may come in contact with the opening. If the womb is still distended with the waters, and at fome diffance from the child, the operator may make upon it a longitudinal incision at once; but if it is contracted close round the body of the foctus, he must pinch it up, and dilate in the fame cautious manner practifed upon the peritonzum, taking care to avoid wounding the Fallopian tubes, ligaments, and bladder; then introducing his hand he may take out the child and secundines. If the woman is strong, the uterus immediately contracts, fo as that the opening, which at first 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 effution of blood is prevented.

The coagulated blood being removed, and what is fill fluid fponged up, the incifion in the abdomen muft be flitched with the interrupted future, and fufficient room left between the laft flitch and the lower end of the opening, for the difcharge of the moifture and extravafated fluid. The wound may be dreffed with dry pledgets or doffils dipped in fome liquid balfam, covered with compreffes moiftened with wine, and a bandage to keep on the dreffings and fuftain the belly. Some authors obferve, that the cotis and mufcles only fhould be taken up in the future, left bad fymptoms fhould arife from flitching the peritonæum.

The woman muff be kept in bed, as quiet as poffible, and every thing administered to promote the lochia, perspiration, and sleep; which will prevent a fever and other dangerous symptoms. If she hash lost a great quantity of blood from the wounds in the uterus and abdomen, so as to be in danger from inantion, broths, caudles, and wine, ought to be given in finall quantities, and frequently repeated; and the cort. Peruvian. administered in powder, decoction, or extract, may be of great fervice in this cafe. For farther information on this subject, the reader may consult Russetus, the Memoirs of the Academy of Surgeons at Paris, and Heister's Surgery. See collect. xxxix,

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BOOK IV.

H A P.

I.

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Of the management of women from the time of their delivery to the end of the month, with the feveral diseases to which they are subject during that period.

SECT.I.

OF THE EXTERNAL APPLICATION.

H E woman being delivered of the child and placenta, let a foft linen cloth, warmed, be applied to the external parts; and if fre complains much of a fmarting forenefs, fome pomatum may be fpread upon it. The linen that was laid below her, to fponge up the difcharges, must be removed, and replaced with others that are clean, dry, and warm. Let her lie on her back, with her legs extended clofe to each other; or upon her fide, if she thinks she can lie easier in that position, until she recovers from the fatigue; if she is spent and exhausted, let her take a little warm wine or caudle, or, according to the common cuftom, fome nutmeg and fugar grated together in a fpoon : the principal defign of administering 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 railed, or fuppofed to be in danger of retchings from her ftomach being overloaded. When the hath in fome measure recovered her firength and spirits, let the cloths be removed from the parts, and others applied in their room ; and if there is a large discharge from the uterus, let the wet linen below her be alfo fhifted, that fhe may not run the rifk of catching cold.

When the patient is either weak or faintish, the ought not to be taken out of bed, or even raifed up to have her head and body shifted, until she is a little recruited; otherwife fhe will be in danger of repeated fantings, attended with convulsions, which fometimes end in death. To prevent thefe bad confequences, her fkirt and petticoats ought to be loofened and pulled down over 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 cloth must be laid on the belly, which is to be furrounded by the head-band of the fkirt pinned moderately tight over the eloth, in order to compress the viscera 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 abdomen and prevented from rolling from fide to fide when the patient is turned; but the principal end of this compression is to hinder too great a quantity of blood from rushing into the relaxed 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 revultion precipitates the patient into dangerous lypothemia.

For this reafon the belly ought to be firmly comprefied by the hands of an affiftant, until the bandage is applied; or, in lieu of it, a long towel, theet, or roller, to make a fuitable comprefion; but for this purpofe different 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 fometimes 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 these precautions are for the ease and fastery of the patient when attended by inexperienced nurses.

NUMB. I.

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

If the preffure hath been fo great as totally to obftruct the circulating fluids in those parts, a mortification ensues; 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 also affected in the fame manner, and both fides prefied together (as for example, in the uterus, os internum, vagina, or os externum) or if the internal membrane of the whole inner furface floughs off, then there is danger of a coalefcence, or growing together, by which are formed callofities; and thefe if they 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, because of the continual draining of the moisture that is discharged 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 applied in the vagina and os externum.

NUMB. II.

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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 velica urinaria, as well as those of the vagina, when the floughs fall off, the urine will pass that way, and hinder the opening (if large) from being closed; this is an inexpressible inconvenience and misfortune to the poor woman, both from the fmcll and continual wetting her clothes. The vagina and bladder may also be lacerated by the forceps, crotchet, or any other instrument imprudently forced up; but, in that case, the urine is immediately discharged through

[PART I.

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 misfortune 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 through 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 them off with a curved knife, buttoned at the point, or confume them with lunar cauftic; and, if the opening is large, to clofe it with a double flitch, keeping the flexible catheter in the bladder until it is entirely filled up; but I with this operation may not be found impracticable.

NUMB. III.

THE os externum is frequently toren, particularly at the perinæum ; and fometimes the laceration reaches to the anus. At other 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 occasioned from the excessive largenefs of the child's head; from the rigidity of the fibres in w men who are near the borders of forty when their first children are born; from the accoucheur's neglecting to flide the perinæum over the head when it is forcibly 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 used 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 still more troublesome, and increased upon the least motion by the friction of the lips against each other. This difagreeable rubbing, is (according to fome writers) prevented by making two deep flitches that will keep the lips together; but in this cafe, we can feldom cure by the first intention, on account of the moisture that is continually passing 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 necessity to make, as foon as poffible, two, three, or fometimes four, deep flitches through the toren vagina and rectum, the knots being tied in the vagina, and two more stitches in the perinæum, to assist the re-union of the parts; for if the fphincter ani is entirely feparated, and continues in that condition, the patient can feldom retain her excrements for any length of time. If this misfortune should remain unknown, or the operation unperformed, on account of the woman's weaknefs, until the lips of the wound arc grown callous, these callous edges must be pared off with fciffars; or, if that should be found impracticable, scarified with the point of a lancet or biftory, and then flitched as above directed; and the flitches must be made very decp, otherwise they will not hold ; because there is but little muscular fieth in the vagina and rectum : but the colon ought first to be empticd with clysters, and the patient take little or no folid food, that the flitches may not be over-ftrained when the goes to ftool. When the laceration reaches fo high as to endanger the woman's retentive faculty, this 10 method

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method, doubtless, ought to be tried; but not otherwise, because the operation very rarely succeeds.

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 shall move as little as possible during the first three weeks

The rents or lacerations that happen to the uterus are of more dangerous confequence, and indeed commonly accounted mortal; therefore they demand the utmost care and circumspection in all the different cases. If the patient is plethoric, she ought to be bled, in order to prevent a fever, unless the hath undergone a considerable discharge from the uterus; she ought to be kept very quiet and motionless; to take nothing but sponmeat, and even of that a little at a time; and drink diluting liquors, such as barley-water and very weak broths.

SECT. II.

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 moderate and falutary temper, by rendering it warm or cold, moift or dry, according to the circumftances of the occasion. 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 first five or feven : let them drink plentifully of warm diluting fluids, fuch as barley-water, gruel, chicken-water, and teas; caudles are alfo commonly used, composed of water-gruel boiled up with mace and cinnamon, to which, when ftrained, is added a third or fourth part of white-wine, or lefs if the patient drinks plentifully, fweetened with fugar to their tafte : this composition is termed white-caudle; whereas, if ale is used instead 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 fometimes allowed to eat a little boiled chicken. But all thefe different preparations are to be preferibed weaker or ftronger, with regard to the fpices, wine, or ale, according to the different conflitutions and fituations of different patients; for example, if the is low and weak, in confequence of an extraordinary discharge 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 she is of a full habit of body, and has the least tendency to a fever, or if the featon is excellively hot, thefe drinks ought to be of a very weak confistence, or the patient restricted to gruel, tea, barley and chickenwater, and thefe varied according to the emergency of the cafe.

Her food must be light and easy of digestion, such as panada, biscuit, and fago; about the fifth or seventh day, she may eat a little boiled chicken, or the lightest kind of young meat; but these last may be given sooner or later, according to the circumstances of the case and the appetite of the patient. In the regimen, as to eating and drinking, we should rather err on the abstemious side, than indulge the woman with meat and strong fermented liquors, even if these last should be most agreeable to her

palate ;

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palate; for we find by experience, that they are apt to increase or bring on fevers, and that the most nourishing and falutary diet is that which we have above prefcribed. Every thing that is difficult of digestion, or quickens the circulating fluids, must of necessful promote a fever; by which the necessfary discharges are obstructed, and the patient's life endangered.

As to the article of fleeping and watching, the patient must 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 bells, tying up the knockers, and, in noify ftreets, ftrewing the pavement with ftraw : if, notwithstanding these precautions, she is disturbed, her ears must be stuffed with cotton, and opiates administered to procure sleep; becaufe watching makes her reftles, prevents perspiration, and promotes a fever .- Motion and reft are another part of the non-naturals to which we ought to pay particular regard. By toffing about, getting out of bed, or fitting up too long, the perspiration is difcouraged and interrupted ; and in this last attitude the uterus, not yet fully contracted, hangs down, ftretching the ligaments, occasioning pain, cold shiverings, and a fever : for the prevention of these bad fymptoms, the patient must be kept quiet in bed till after the fourth or fifth day : and then be gently lifted up in the bedclothes, in a lying posture, until the bed can be adjusted, into which she must be immediately re-conveyed, there to continue, for the most part, till the ninth day; after which period women are not fo fubject to fevers as immediately after delivery. Some there are, who, from the nature of their constitutions 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 up, walk about, and recover, in a much shorter time ; but these may, some time or other, pay dearly for their fool-hardinefs, by encouraging dangerous fevers ; fo that we ought rather to erron the safe fide, than run any risk whatsoever.

What next comes under confideration, is the circumstance of retention and excretion. We have formerly observed, 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 fæces before the child's head, and enable the patient to remain two or three days after without the necessity of going to flool. However, should this precaution be neglected, and the patient very costive after delivery, we must be aware of throwing up stimulating clysters, or administering strong cathartics, lest they should bring on too many loofe stools, which, if they cannot be stopped, sometimes produce fatal confequences, by obstructing the perspiration and lochia, and exhausting the woman, fo as that the will die all on a fudden; a catastrophe which hath frequently happened from this practice. Wherefore, if it be necessary to empty the intellines, we ought to preferibe nothing but emollient clyfters, or fome very gentle opener, fuch as manna, or elect. lenitivum.

For the retention of urine that fometimes happens after labour, we have already proposed a remedy in Book II. chap. ii. fect. iii. But no excretion is of more confequence to the patient's recovery than a free perspiration; which is fo abfolutely neceffary, that unless the has a moisture continually on the furface of her body for fome days after the birth, the feldom recovers to advantage; her health, therefore, in a great measure depends upon her enjoying undisturbed repose, and a constant breathing

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fweat, which prevents a fever, by carrying off the tenfion, and affifts the equal difcharge of the lochia; and when these are obstructed, and a fever enfues with pain and reftleffnefs, nothing relieves the patient fo effectually as reft and profuse fweating, procured by opiates and sudorifies at the beginning of the complaints; yet these last must be more cautiously prefcribed in excellive hot, than in cool weather.

The last of the non-naturals to be confidered, are the passions of the mind, which alfo require particular attention. The patient's intagination must not be disturbed 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 spirits; and, even after delivery, these unseasonable communications have produced such an anxiety as obstructed all the necessary excretions, and brought on a violent fever and convultions, that ended in death.

SECT. III.

VIOLENT FLOODINGS. OF

ALL women, when the placenta separates, and after it is delivered, lose more or lefs red blood, from the quantity of half a pound to that of one pound or even two; 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 fresh cloths as fast as they can be applied ; from the pulse becoming low and weak, and the countenance turning pale; then the extremitics grow cold; fhe finks into faintings; and, if -the discharge is not speedily stopped or diminished, is seized with convulsions, which often terminate a de site in death.

The dangerous efflux is occasioned by every thing that hinders the emptied uterus from contracting; such as, great weakness and lassitude, 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 there is another child, or more, still undelivered ; when the womb is kept distended with a large quantity of coagulated blood; or when it is inverted by pulling too forcibly at the placenta. See Book II. chap. in fect. iii.

In this cafe, as there is no time to be loft, and internal medicines cannot act fo fuddenly as to answer the purpose, we must have immediate recourse 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 to restrain the hæmorrhage of the thin blood ; or if, in separating the placenta, the accoucheur has fcratched or tore the inner furface or membrane of the womb; in these cases, such things must be used as will assist the contractile power of the utcrus, and hinder the blood from flowing fo fast into it and the neighbouring veffels; for this purpose, cloths dipped in any cold aftringent fluid, fuch as oxycrate, or red tart wine, may be applied to the back and belly. Some prefcribe venæfection in the arm, to the amount of five or fix ounces, with a view of making revultion ; if the pulse is ftrong, this may be proper; otherwife it will do more harm than good. Others order ligatures, for compressing the returning veins at the hams, arms, and neck, to retain as much blood as possible in the extremities and head, Befides these applications, the vagina may be filled with tow or linen rags dipped

dipped in the above-mentioned liquids, in which a little alum or faccharum faturni hath been diffolved; nay, fome practitioners inject proof-fpirits warmed, or, foaking them up in a rag or fponge, introduce and fqueeze them into the uterus, in order to constringe the vessels.

If the floodings proceed from another child, the retention of the placenta, or coagulated blood, thefe ought immediately to be extracted, and if there is an inversion of the uterus, it must be speedily reduced. Should the hæmorrhage, by these methods, abate a little, but still 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 thould take it frequently, and a little at a time, but, above all things, chicken or mutton broths administered in the fame manner, for fear of over-loading the weakened ftomach, and occasioning retchings these, repeated in small quantities, will gradually fill the exhausted vessels and keep up the circulation. If the pulfe continues ftrong, it will be roper to order repeated draughts of barley-water, acidulated with elixir of vitriol; but if the circulation 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 first violence of the flooding is abated, if properly and cautiously used, are generally more effectual than any other medicine.

SECT. IV.

OF THE AFTER-PAINS.

A FTER-PAINS commonly happen when the fibrous part of the blood is 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 these should be extracted, others will fometimes be formed, though not fo large as the first, because the cavity of the womb is continually diminishing after the birth. The uterus, in contracting, preffes down these coagulums to the os internum; which being again gradually stretched, 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 increased, the clots are pushed along, and when they are delivered she grows easy. The larger the quantity is of the coagulated blood, the feverer are the pains, and the longer they continue.

Women in the first child, feldom have after-pains; because, after delivery, the womb is supposed to contract, and push off the clots with greater force in the first than in the following labours; after-pains may alfo proceed from obstructions in the vessels, and irritations at the os internum. In order to prevent or remove these 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 felt, 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 clotted blood; and which foever it may be, 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 fleeping and fweating plentifully, the irritation is removed, the evacuations are increased, the os uteri is infenfibly relaxed, and the coagula flide eafily along. When the discharge of the lochia is small, the after-pains, if moderate, ought not to

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be reftrained; becaufe the fqueezing which they occasion, promotes the other evacuation, which is necessary for the recovery of the patient. Afterpains may also proceed from an obstruction in some of the vessels, occafioning a small inflammation of the os internum and ligaments; and the fqueezing thereby occasioned may not only help to propel the obstructing fluid, but also (if not too violent) contribute to the natural discharges.

SECT.V.

OF THE LOCHIA,

WE have already obferved, that the delivery of the child and placenta is followed by an efflux of more or lefs blood, 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 neceffary that, after the great difcharge is abated, a flow 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 twentieth day after delivery, though the period is different in different women.

When the large veffels are emptied immediately after delivery, the difcharge frequently ceafes for feveral hours, until the fluids in the fmaller veffels 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 about the fifth day, it flows of a clear, or fometimes (though feldom) of a greenish tint; for the mouths of the veffels, growing gradually narrower by the contraction of the uterus, at last allow the ferous part only to pass. As for the greenish hue, it is supposed to proceed from a diffolution of the cellular or cribriform membrane or mucus that furrounded the furface of the placenta and chorion; part of which, being left in the uterus, becomes livid, decays, and, diffolving, mixes with and tinctures the difcharge as it paffes along.

Though the lochia, as we have already obferved, commonly continue to the eighteenth or twentieth day, they are every day diminifhing in quantity, and fooneft ceafe in those women who fuckle their children, or have had an extraordinary discharge at first; but the colour, quantity, and duration, differ in different women; in some patients, the red colour disappears on the first or second day; and in others, though rarely, it continues more or lefs to the end of the month; the evacuation in some is very small, in others excessive; in one woman it ceases very foon; in another, flows during the whole month; yet all of these patients shall do well.

Some alledge, that this difcharge from the uterus is the fame with that from a wound of a large furface; but it is more reafonable to fuppofe, that the change of colour and diminution of quantity proceed from the flow contraction of the veffels; becaufe, previous to pus, there must have been lacerations or impostumes; 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 altogether fmooth, and at other times rough and unequal on that part to which the placenta adhered, The

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

A BOUT the fourth day, the breafts generally begin to grow turgid and painful. We have formerly obferved, that during the time of uterine geftation the breafts in moft women gradually increase till the delivery, growing fofter as they are enlarged by the veffels being more and more filled with fluids; and by this gradual diffention they are prepared for fecreting the milk from the blood after delivery. During the two or three first days after parturition, especially when the woman has undergone a large difcharge, the breafts have been fometimes observed to fubfide and grow flaccid; and about the third or fourth day, when the lochia begin to decrease, the breafts fwell again to their former fize, and ftretch more and more, until the milk, being fecreted, is either fucked by the child, or frequently of itfelf runs out at the nipples.

Most of the complaints incident to women after delivery, proceed either from the obstruction of the lochia in the uterus, or of the milk in the breasts, occasioned by any thing that will produce a fever; such as catching cold, long and fevere labour, eating food that is hard of digestion, and drinking fluids that quicken the circulation of the blood in the large vessels; by which means the smaller, with all the secretory and excretory ducts, are obstructed.

The discharge of the lochia being so different in women of different constitutions, and besides in some measure 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 discharge; and if the woman feems hearty, and in a fair way of recovery, nothing ought to be done with a view to augment or diminish the evacuation. If the discharge be greater than fhe can bear, it will be attended with all the fymptoms of inanition; but as the lochia feldom flow fo violently as to deftroy the patient on a fudden, fhe may be fupported by a proper nourifhing diet, affift--. ed with cordial and reftorative medicines. Let her, for example, ufe broths, jellies, and affes-milk; if the pulse is languid and funk, the may take repeated dofes of the confec. cardiac. with mixtures composed of the cord'al 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 business is to remove a too great plenitude of the vessels in and about the uterus, occasioning tension, pain, and labour, in the circulating fluids; from whence proceeds great heat in the part, reftleffinefs, fever, a full hard quick pulfe, pains in the head and back, nausea, and difficulty in breathing. These complaints, if not at first prevented, or removed by reft and plentiful fweating, must be treated with venæfection and the antiphlogistic method.

When the obstruction is recent, let the patient lie quiet and encourage a copious diaphoresis, by drinking plentifully of warm, weak, diluting sluids, such as water-gruel, barley-water, tea, or weak chicken-broth;

fhe may likewife take opiates and fudorifies in different forms as may be agreeable to her ftomach.—*Theriaca androm.* from 3fs to 3i. *Laud. liquid.* from gut. x. to gut. xx. *Pilul. faponac.* from gr. v. to gr. x. or fyr. de meconio. from 3fs. to 3i. 'Thefe may be repeated occafionally, with other forms of opiates ; and if they fail to procure reft and fweating, the following diaphoretics, without opium, ought to be administered:

R Pulv. contrayerv. cam. 38. Pulv. caftor. Ruff. fal. fuccin, āā. gr. v. Syr. croci. q. f. f. Bolus statim fumendus cum haust. sequent. et repetat. quarta vel fexta quaque hora ad tres vices, vel ut opus fuerit.

R Aq. cinnamom. ten. Zifs. cum spiritu. syr. croci. āā. Zii. adde sal. 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 obstructed lochia, labour under a hot dry skin, anxiety, and a quick hard and full pulfe, the warm diaphoretics must be laid as fide; because if they fail of having the defired effect, they must necessarily increase the fever and obstruction, and recourse be had to bleeding at the arm or ancle, to more or lefs quantity, according to the degree of fever and obstruction ; and this evacuation must be repeated as there is occasion. When the obstruction is not total, it is supposed more proper to bleed at the ancle than at the arm; and at this last, when the discharge is altogether stopped. Her ordinary drink ought to be impregnated with nitre, and the following draughts, or others of the fame kind, preferibed:

R Sal absynth. Di. Succ. limon. 3fs. Aq. cinnamom. fimp. 3fs. Pulv. contrayerv. comp. Di. Sacch. alb. q. f. f. haustusstatim sumendus, et quarta vel fexta quaque hora repetendus.

If the is coftive, emollient and gently-opening clyfters may be occafionally injected; and her breafts muft be fomented, and fucked either by the mouth or pipe-glaffes. If by thefe means the fever is abated, and the neceffary difcharges return, the patient commonly recovers; but if the complaints continue, the antiphlogiftic method muft ftill be purfued. If notwithftanding thefe efforts the fever is not diminifhed or removed by a plentiful difcharge of the lochia from the uterus, the milk from the breafts, or by a critical evacuation by fweat, urine, or flool, and the woman is every now and then attacked with cold fhiverings, an abfecefs or abfeceffes 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 being affected with violent pains; thefe abfeeffes are more or lefs dangerous, according to the place in which they happen, the largenefs of the fuppuration, and the good or bad conflictution of the patient.

If, when the pains in the epigaftric region are violent and the fever increafed 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 becomes low, quick, wavering, and intermitting; if the woman's countenance, from being florid, turns dufky and pale, while fhe herfelf 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 fever which proceeds from the obstructed lochia, and in which the breasts may likewise be affected; but the milk-fever is that in which the breasts are originally concerned, and which may happen though the lochia continue to flow in fufficient quantity

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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 preferiptions failing, the obftructions muft be refolved by the antiphlogittic method deferibed above: The milk-fever alone, when the uterus is not concerned, is not fo dangerous, and much more eafily relieved. Women of an healthy conflictution; who fuckle their own children, have good nipples, and whofe milk comes freely, are feldom or never fubject to this diforder, which is more incident to thofe who do not give fuck, and neglect to prevent the fectetion in time; or, when the milk is fecreted, take no meafures for emptying their breafts. This fever likewife happens to women who try too foon to fuckle, and continue their efforts too long at one time; by which means the nipples, and confequently the breafts, are often inflamed, fwelled, and obftructed.

In order to prevent too great a turgescency in the vessels of the breafts, and the fecretion of milk, in those women who do not choose to fuckle, it will be proper to make external application of those things which, by their preflure and reperculfive 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 emp. fimp. spread upon linen, or cloths dipped in camphorated spirits, be frequently applied to these parts and the arm-pits ; while the patient's diet and drink are of the lighteft kind, and given in fmall quantities. Notwithftanding these precautions, a turgescency commonly begins about the third day; but by reft, moderate fweating, and the use of these applications, the tension and pain will fubfide about the fifth or fixth day, especially 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 abstemious, the tension and pain increasing, will bring on a cold fhivering; fucceeded by a fever, which may obstruct the other excretions, as well as those of the breaft;

In this cafe, the fudorifics above recommended muft be preferibed ; 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 increafe, fhe ought to be bled in the arm; and, initead of the external applications hitherto ufed, emollient liniments and cataplafms muft be fublitituted, 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 fweats, a large difcharge from the uterus, miliary eruptions, or loofe ftools mixed with milk, which is curdled in the inteftines. 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 applied, left they fhould produce fcirrhous fwellings in the glands.

As the crifis of this fever, as well as of that laft defcribed, often confifts 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 diminish the circulating force, but fuch only as will keep out the eruptions. But if, notwithitanding thefe eruptions, the fever, instead of abating, is augmented, it will be neceffary to diminish its force, and prevent its increafe by those evacuations we have mentioned above. On the contrary, should the pulse fink, the eruptions begin to retreat inwardly, and the morbific matter be in danger of falling upon the viscera, we must endea-

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vour to keep them out, by fuch opiates and fudorific medicines as we have already preferibed in obstructions of the lochia ; and here blisters may be applied with fuccefs. On this fubject Sir David Hamilton and Hoffman may be confulted.

SECT. VII.

OF THE PROLAPSUS VAGINÆ, RECTI, ET UTERI.

W HEN 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 pufied out at the os externum, occafioning 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 these complaints confifts in reducing the prolapsus : if this cannot be done immediately in the last, on account of the fwelling of the protruded part, emollient fomentations and pultices must be used in order to remove the inflammation. When it is reduced, the woman must be confined more than usual to her bed; and if the part falls down again in confequence of her straining at stool or in making water, it must be reduced occasionally, and as the recovers strength the complaint will in all probability vanish; otherwise astringent fumigations or fomentations must be used. If the diforder be of long duration, peffaries, adapted to the part, whether vagina or rectum, must 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 inveterate fluor albus, that, by its long continuance and great difcharge, weakens the womb and all the parts.

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

As this prolapfus comes on gradually, the woman of herfelf can (for the most part) reduce and keep it up while in bed ; but when she rifes and walks, it will fall down again. When the complaint is not of long standing, 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 diffended 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 prolapsus. 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, occasioned by the vagina rubbing against the thighs and the os uteri upon the cloths that are used for supporting it, an inflammation, excoriation, and ulceration, are produced, inviting a greater flux of fluids to the part; these symptoms, joined with a fluor albus from the infide of the uterus, destroy 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 peffary; 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 preferibed, 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 a fpring, as deferibed in the Medical Effays of Edinburgh; but those most in use are of a flat form, with a little hole in the middle, and made of cork waxed over, ivory, box, ebony, lignumvitæ, of a triangular, quadrangular, oval, or circular fhape. Those that are circular feem best to answer the intention, because we can more easily introduce a large one of that than of any other figure; it lies more commodiously in the vagina; and, as it always tilts a little upward and downward, never hinders the passe of the urine or fæces; these inftruments, however, ought to be larger or smaller, 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 ftalk, 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.

SECT. VIII.

OF THE EVACUATIONS NECESSARY AT THE END OF THE MONTH AFTER DELIVERY.

T HOSE 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 firft 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 first flowing of the menfes, which commonly happens about the fifth week; if they do not appear within that time, gentle evacuations must be prefcribed, to carry off the plethora and bring down the catamenia.

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C H A P. 'II.

Of the management of new-born children, with the difeases to which they are subject.

OF WASHING AND DRESSING THE CHILD.

H 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 wathed clean from that fourf which fometimes covers the whole foarf-fkin, and is particularly found upon the hairy foalp, 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 fresh butter hath been diffolved. This composition 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 used in delivering the child, the whole body ought to be examined, and if there is any mark or contusion on the head, it will disappear if anointed with pomatum, and gently rubbed or chafed with the accoucheur's hand ; if any limb is diflocated or broken, it ought to be reduced immediately; luxations, though they feldom happen, are more incident to the fhoulder than to any other part, the humerus being eafily diflocated, and as eafily The bones of the arm and thigh are more fubject to fracture, reduced. than any other of the extremities; the first is easily cured, because the arm can be kept from being moved; but a fracture in the thigh-bone is a much more troublesome cafe, because, 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 best 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 extension.

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 *belly-band*. This comprefion muft 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 those that are ftill and quiet; yet not fo tight as to be uneafy to the child, and the bandage muft be loofened and the part examined every fecond day. The navel-ftring fhrinks, dies, and about the fixth or feventh day commonly drops off from the belly; though not at the ligature, as fome people have imagined. This being feparated, a pledget 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.

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SECT. I.

During the time of washing and dreffing the child, it ought to be kept moderately warm, especially in the head and breast, that the cold air may not obstruct perspiration; the head and body ought also to be kept tolerably tight with the clothes, for the convenience of handling, and to prevent its catching cold, especially 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 compression. 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. Instead of the many superfluous inventions of nurfes, and those who make clothes for children, with a view to make an expensive and pompous appearance, the drefs ought to be contrived with all imaginable fimplicity; the child being washed, the navel-ftring fecured, and the head covered with a linen or woollen cap, as already directed, a shirt and waistcoat may be put upon the body, and over it a flannel fkirt or petticoat open before, with a broad head-band, as commonly used, 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 fustian gown; while the head is accommodated with another cap, adorned with as much finery as the tire-woman shall think proper to bestow.

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 over heated; and eafy, though not too loofe; that refpiration may be full and large, that the brain may fuffer no compression, 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 use as few pins as possible, andthose that are absolutely neceffary with the utmost caution.

SECT. II.

W H E N 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. rutæ*, &c. we must introduce a probe, or very fmall catheter, along the urethra into the bladder; an operation much more easily performed in female than in male children.

In boys, the prepuce alone is fometimes imperforated; in which cafe an opening is eafily made. But if there is no pallage 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 being obstructed, pushes 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 wretched and ineffectual expedient, and the other can but at best lengthen out a miferable life. If the anus is imperforated, and the fæces protrude the parts; or if it be covered with a thin membrane, and a bluish or livid fpot appears, the puncture and incifion commonly fucceed. 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 course of the rectum, and the entry in both fexes. For farther information on this fubject,

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fubject, Mauriccau'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 first coition. The middle of it is fometimes attached to the lower part of the meatus urinarius, and on each fide of the bridge is a fmall opening that will only admit the end of a probe, though it is fufficient for the discharge of the menses. This obstruction is commonly unknown till marriage, and hath often proved fatal to the unfortunate woman, who had concealed it through excess of modefty, and afterwards funk into a deep melancholy which cost 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 every female 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 membrane, 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 last push 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 almost 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 easily remedied by introducing the forefinger into the child's mouth, raising up the tongue, and fnipping the bridlc with a pair of fciffars.

If, inftead of a thin membrane, the tongue 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 cautioufly with lunar cauftic or Roman vitriol; but we ought to take care that we are not deceived by an inflammation that fometimes happens in the birth, from the accoucheur's helping the head along with his finger in the child's mouth.

SECT. III.

OF MOULD-SHOT HEADS, CONTUSIONS, AND EXCORIATIONS.

IN laborious and lingering labours, the child's head is often long confined, and fo compressed 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 flact; if over the acciput, it goes by the name of the horfe-shoe mould. When the fontanel prefents (though this is feldom the cafe) and is pushed down, the form of the head is raifed up in the shape 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 kept long in the pelvis, and the child not destroyed by the compression of the brain, either before or soon after delivery, it commonly retains more or lefs of the fhape acquired in that fituation, according to the strength or weakness 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 obstructions 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 navelftring, 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 ftimulating; for the more it cries, 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 purged 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. amygdal. d. mixed with pulv. rhabarb. or de althæd, or fyr. de cichoreo, cum rheo.

If the child is feized with convultions foon after delivery, in confequence of this compression, and the vessels of the navel-string 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 easily performed in young children : the urine and meconium must be discharged, and a small blister applied between the scapulæ. When the scale is bruised, inflamed, or fwelled, let it be anointed or embrocated with a mixture of *ol. camomel. acet.* and *spt. vin. campborat.* and cerates and pultices applied to the parts.

If the tumefaction is large, and we feel a confiderable fluctuation of extravafated fluids, which cannot be taken up by the abforbent veffels, affifted with those applications, the tumour must be opened; though generally there is no occasion for a large incision, because, after the fluid is once discharged, the hollow scalp, by gentle preffure, is more easily joined in children than in older subjects.

When the head is misshapen, it should not be bound or pressed, but left lax and easy; left, the brain being compressed, convulsions should ensue.

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 first. And here it will not be improper to obferve, that as the whole tract of the colon is filled with this vifcid excrement, which hath been gradually accumulated for a confiderable time; and as the fmall intestines, 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 first two days; or indeed, till it fucks the mother's milk, which begins to be fecreted about the third day, and is at first fufficiently purgative to difcharge these humours, and better adapted for the purpose 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 recover 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 poffible the mother's milk; let it coufift 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 manna, or from two to four grains of rhubarb, may be given; and when the ftools are green and curdled, it will

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be proper to abforb the prevailing acid with the teffaceous powders, fuch as the *cbel. cancror. fimp.* or *teft. offrear.* given from the quantity of ten grains to a feruple ; and for this purpofe the *magnefia alba* is recommended, from one to two drachms a day, as being both opening and abforbent. The red-gum may likewife proceed from the officioufnefs of the nurfe, by which the fearf-fkin hath been abraded or rubbed off; in which eafe the child muft be bathed in warm milk, and the parts foftened with pomatum ; 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 greenifh hue.

Excoriations behind the ears, in the neck, and groin of the child, are fometimes indeed unavoidable in fat and grofs habits; but most commonly proceed from the careleffness of the nurse, who neglects to wash and keep the parts clean; they are, however, easily dried up and healed, with unguent. alb. pulv. e ceruffa, or fullers-earth. Yet we ought to be cautious in applying drying medicines behind the ears, because a discharge in that part frequently prevents worse discase.

SECT. IV.

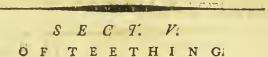
OF THE APHTHA.

THE aphtha, or thrufh, is a difeafe to which new-born children are frequently fubjeft, and is often dangerous when neglected at the beginning. This difeafe proceeds from weaknefs and laxity of the contracting force of the flomach and inteffines, by which the acefeent food is not digefted; and from a defect in the neceffary feeretion of bile, with which it ought to be mixed. This prevailing acid in the primæ viæ produces gripings and loofe green flools, 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, flomach, and inteffines, are obftructed and ulcerated in confequence of the child's weaknefs, and acrimonious vomitings, belchings, and flools, and little foul ulcers are formed.

Thefe first appear in fmall white specks on the lips, mouth, tongue, and at the fundament: they gradually increase in thickness and extent; adopt a yellow colour, which in the progress of the distemper becomes duskish, and the watery stools (called the *watery gripes*) become more frequent. The whole inner furface of the intestines being thus ulcerated and obstructed, no nourithment enters the lacteal vessels; so that the weakness and difease are increased, the milk and pap which are taken in at the mouth passes off curdled and green, the child is more and more enseebled, and the brown colour of the aphtha declares a mortification and death at hand. Sometimes, however, the aphthæ are unattended by the watery stools; andfometimes these last are unaccompanied with the aphtha.

In order to prevent this fatal cataftrophe, at the first appearance of the diforder we ought to preferibe repeated dofes of testaceous powders to abforb and fweeten the predominant acid in the stomach, giving them from ten to twenty grains in the pap, twice or three times a day; and on every third night from three to five grains of the *pulw*. *rbci. julep. c Creta*; oily and anodyne clysters, with cpithems to the stomach, may also be administered. When these and every other prefeription fail, the child, if not much weakened,

is fometimes cured by a gentle vomit, confifting of pulo: ipecacuan: gr. 1. given in a spoonful of barley-water, and repeated two or three times at the interval of half an hour between each: When the child is much enfeebled; 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 occasion, together with weak broths; but if the child cannot fuck; the milk of cows, mares; or affes, may be fubstituted in their room; diluted with barley-water.



CHILDREN commonly begin to breed their fore-teeth about the feventh; and fometimes not before the ninth month ; nay, in fome the period is still later. Those who are healthy and lax in their bellies, undergo dentition eafier than such as are of a contrary constitution. When the teeth thoot from their fockets, and their tharp 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 feverifh fymptoms and convultions, that often prove fatal. In order to prevent these misfortunes, the swelled gum may at first be cut down to the tooth with a bistory or fleam; by which means the patient is often relieved immediately; but if the child is ftrong, the pulfequick; the fkin hot and dry; bleeding at the jugular will also be necessary; and the belly must be kept open with repeated clysters. 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.

CHAP: III.

Of the requisite qualifications of accoucheurs, midwives, nurses who attend lying-in women, and wet and dry nurses for children:

SECT. I.

OF THE ACCOUCHEUR:

HOSE who intend to practife midwifery ought first of all to make themselves masters of anatomy, and acquire a competent knowledge in furgery and physic, because of their connection with the obstetric art, if not always, at least in many cases. He ought to take the belt opportunities he can find of being well inftructed; and of practifing under a master, before he attempts to deliver by himself.

In order to acquire a more perfect idea of the art, he ought to perform with his own hands upon proper machines, contrived to convey a just notion of all the difficulties to be met with in every kind of labour; by which means he will learn how to use the forceps and crotchets with more dexterity, be accustomed to the turning of children, and confequently be morecapable of acquitting himfelf in troublefome cafes that may happen to

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him when he comes to practife among women; he fhould alfo embrace every occasion of being prefent at real labours; and indeed of acquiring every qualification that may be necessary or convenient for him in the future exercise of his profession. But, over and above the advantages of education, he ought to be endowed with a natural fagacity, resolution, and prudence; together with that humanity which adorns the owner, and never fails of being agreeable to the distressed patient; in confequence of this virtue, he will assume to act and speak with the utmost delicacy of decorum, and never violate the truss reposed in him, fo as to harbour the least immoral or indecent defign; but demean himself in all respects fuitably to the dignity of his profession.



A MIDWIFE, though the can hardly be fuppofed mittrefs of all thefe qualifications, 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 those that are fubfervient to generation; fhe ought to be well skilled 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 miltrefs 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; fhe ought to live in friendthip with other women of the fame profession, contending with them in nothing but in knowledge, fobriety, diligence, and patience; fhe ought to avoid all reflections upon men-practitioners; and when the finds herfelf at a lofs, candidly have recourfe to their affiftance. On the other hand, this confidence ought to be encouraged by the man, who, when called, inflead of openly condemning her method of practice (even though it fhould be erroneous) ought to make allowance for the weakness of the fex, and rectify what is amifs, without exposing her mistakes. This conduct will as effectually conduce to the welfare of the patient, and operate as a filent re-· buke upon the conviction of the midwife, who finding herfelf fo tenderly treated will be more apt to call for neceffary affiftance on future oceasions, and to confider the accoucheur as a man of honour and a real friend. Thefe gentle 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 may err fometimes; and on fuch oceasions he must expect to meet with retaliation from midwives whom he may have roughly ufed.

S E C T. III.

OF NURSES IN GENERAL

N URSES, as well as midwives, ought to be of a middle age, fober, patient, and different, able to bear fatigue and watching, free from external deformity, cutaneous eruptions, and inward complaints, that may be troublefome or infectious.

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NUMB. I.

NURSES that attend lying-in women ought to have provided, and in order, every thing that may be necessary for the woman, accoucheur, midwife, and child; luch as linen and cloths, well aired and warm, for the woman and the bed, which fhe must know how to prepare when there is occasion; together with nutmeg, fugar, spirit of hartshorn, vinegar, Hungary-water, white or brown caudle ready made, and a clyster-pipe fitted. For the use of the accoucheur, the must hang a doubled theet over the bed-fide, and prepare warm cloths, pomatum, thread, warm and cold water, and two hand-basons; and for dreffing the child, she must keep the clothes warm, and in good order. After delivery, her business is to attend the mother and child with the utmost care, and follow the directions given to her relating to the management of each.

That the mother herfelf should give fuck, would certainly be most conducive to her own recovery, as well as to the health of the child; but when this is inconvenient, or impracticable, from her weakness or circumstances in life, a wet-nurse ought to be hired, possessed of the qualifications above defcribed, as well as of those that follow.

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NUMB. H.

THE younger the milk is, the better will it agree with the age of the infant. The nurse is more valuable after having brought forth her second child than after her first; because she is endued with more knowledge and experience touching the management of children. She ought to have good nipples, with a fufficient quantity of good milk : the abundance or fcantinels of the fecretion may be diftinguished by the appearance of her own child; and the quality may be afcertained by examin-ing 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 stands 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 confiitence; in a word, it may be as well diffinguished by its opacity or transparency, when it is dashed upon the fide of the glass; befides, it ought to be sweet to the taske, and in colour inclining to blue rather than to yellow. Red-haired 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 Inftitutes, with Haller's Commentary, may be confulted.

Aithough it is certainly most natural for children to fuck, it may be fometimes necessary to bring them up by hand; that is, nourish them with pap; because proper wet-nurses 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 swelling or diforder about the mouth or throat.

NUMB. III.

UPON fuch occasions, we must choose an elderly woman properly qualified for the task, and well accustomed to the duties of a dry-nurse. The food (as we have formerly observed) ought to be light and simple, in quality

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quality refembling as nearly as possible the mother's milk, such as thin panada, mixed with cow's milk and sweetened with sugar; or, should the child be cossive, instead of sugar, honey or manna may be used. If there is any reason to believe that the loaf-bread or biscuit is made of shour which hath been mixed with alum for the sake of the colour, the common panada ought in this case to be laid as above.

Some children thrive very well on this diet; but when it is neither agreeable to their palates nor nourifhing, a wet-nurfe must be procured, before the child is too much emaciated and exhausted; and if it can such, the good effects of the milk will soon be manifest. But, for farther information on this head, the reader may confult Dr. Cadogan's Letter on Nursing of Children.



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[PART I.

EXPLA





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EXPLANATIONS TO PLATES,

ANATOMICAL TABLES;

WITH AN ABRIDGMENT OF THE

PRACTICE OF MIDWIFERY,

INTENDED TO ILLUSTRATE

THE TREATISE AND CASES.

TABLE I.

R EPRESENTS, in a front view, the bones of a well-formed pelvis. *A*. The five vertebræ 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 defcribed 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, belides the general structure and figure of the feveral bones, the dimensions of the brim of the pelvis, and the distance between the under parts of the ofia ischium, 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 dimensions, fince even well-formed ones differ in some degree from each other. In general, the brim of the pelvis measures 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 distance between the inferior parts of the offa ifchium. All these measures, however, must be understood as taken from the skeleton; for in the subject, the cavity of the pelvis is considerably diminished by its teguments and contents. Correspondent also to this diminution, the usual dimensions of the head of the full-grown foetus are but three 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. fect. i. ii. iii. where the dimensions of the pelvis, as well as of the head of the focus, and the manner in which the fame is protruded in labour through the bason, are fully treated of. Confult likewise part ii. coll. i. numb. i. ii. where cases are given of complaints of the pelvis arising from difficult labours.

TABLE II.

GIVES a lateral and internal view of the pelvis, the fame being divided longitudinally. A. The three lower vertebræ of the loins.— B. The os facrum.—C. The os coccygis.—D. The left os ilium.—E. The left 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 flews the diffance from the fuperior part of the os facrum to the offa pubis, as well as from the laft-mentioned bones to the coccyx, which in each amounts to about four inches and a quarter. The depth is likewife flewn 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 pofterior than anterior part, and twice the depth of the laft at the fides.

From this view appears also the angle which is formed by the last vertebra of the loins and the fuperior part of the os facrum, as likewife the concavity or hollow space in the posterior internal part of the pelvis, arising from the posterior curvature of the last-mentioned bone and coccyx; finally, the distance from which to the posterior parts of the offa is the expressed.

Vide tab. xvi. xvii. xviii, xix, Alfo part i, and ij. as referred to in the former table.

TABLE III.

EXHIBITS a front view of a difforted pelvis.—A. The five vertebræ 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.

From this plate may appear the great danger incident to both mother and child when the pelvis is difforted in this manner; it heing only two inches and an half at the brim from the pofterior to the anterior part, and the fame diffance between the inferior parts of each os ifchium. Vide tab, xxvii. where the pelvis is one quarter of an inch narrower at the brim than this, but fufficiently wide below. Various are the forms of difforted bafons, but the laft-mentioned is the most common. It is a great happinels, however, in practice, that they are feldom fo narrow, though there are inflances where they have been much more fo. The danger in all fuch cafes muft increase or diminish according to the degree of diffortion and fize of the child's head.

Vide part i. book i. chap. i, fect. iv. v, and part ii. collect. i. numb.

TABLE IV.

S H E W S the external female parts of generation.—A. The lower part of the abdomen.—B. The labia pudendi feparated.—C. The clitoris and præputium.—D. The nymphæ.—E. The folfa magna, or os externum.—F. The meatus urinarius.—G. The frænum labiorum.—H. The perinæum.—I. 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 exactly 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 demonstrate these parts in the ordi-

nary



PART I.

Fig. 2.

attachment of the vagina round the outfide of the lips of the mouth of the womb is here likewife fhewn, as also the fituation of the uterus, as it is prefied downward and backward by the inteffines 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 fimbriz.— \mathcal{Q} . The ovarium of the fame fide.—R: The fuperior part of the rectum and inferior part of the colon.

Fig. 3. gives a front view of the itterus in the beginning of the first 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. chaps ii. fect. ii. iii. Part ii. collect. iiis

TABLE VI: Fig 1.

IN the fame view and fection of the parts as in the first figure of the former table, shews the uterus as it appears in the fecond or third month of pregnancy, its anterior part being here likewise removed.——F. The anus.——G. The vagina, with its plicx.——H. The posterior and inferior part of the urinary bladder extended on each fide, the anterior and superior part being removed.——I. The mouth and neck of the womb, as raifed up when examining the fame by the touch, with one of the fingers in the vagina.——K. The uterus as stretched in the fecond or third month; containing the cmbryo, with the placenta adhering to the fundus.

It appears from this and the former table, that at this time nothing can be known, with respect to pregnancy, from the touch in the vagina, as the refiftance of the uterus is fo inconfiderable that it cannot prevent its being raifed 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 stretched above the pelvis, little change is made as to the figure of the abdomen, farther than that the inteffines are raifed a little higher; whence possibly the old observation of the abdomen being a little flatter at this period than usual, from the intellines 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 much weakened by large discharges, yet they rarely fink under the fame, but are fooner or later relieved by labour coming on, which gradually ftretches the neck and mouth of the womb, by the membranes being forced down with the waters; and if the placenta is separated from the internal surface of the uterus, all its contents are discharged; but if the placenta still adheres, the membranes break, the waters and foctus are expelled, and the flooding diminishes, from the uterus contracting close to the fecundines, which also are usually discharged sooner or later.

From the flructure, finally, of the parts, as represented in this and the former table, it may appear, that it is much fafer to reftrain the flooding, and support the patient, waiting with patience the efforts of nature, than to endeavour to stretch the os uteri, and deliver either with the hand or instruments, which might endanger a laceration and inflammation of the parts.

Vide C. in tab. xxxvii. Alfo part i.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 thefe parts are contiguous to each other ; but here the vagina G. is a little stretched from the neck and lips of the former, in order to thew the parts more diffinctly .-- I. 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 stretching of which can sometimes be felt through the vagina, by pushing 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 increase 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 stretched, the woman is more fenfible of her growing bigger; and the uterus alfo, from the counter-pressure of the contents and parietes of the abdomen, is kept down, and the os uten prevented from rifing before the finger as formerly. In lean women, the stretching of the uterus can fometimes be perceived in the vagina at this period as well as above the pubes; but nothing certain can be discovered from the resistance or feel of the mouth of the womb or lips, which are commonly the fame in the first months of pregnancy as before it.

The fize or bulk of the fætus is finally here to be observed, with the placenta adhering to the posterior part of the uterus.

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

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 flew B. The uterus.—C. The inteffines raifed upward.

The labia pudendi are fometimes affected in pregnancy with œdematous fwellings, occafioned by the preffure of the uterus upon the returning veins and lymphatics. If the labia are fo tumefied as to obstruct the patient's walking, the complaint is removed by puncturing the parts affected. By which means the ferous fluid is discharged for the present, but commonly recurs; and the fame operation must be repeated feveral times, perhaps, before delivery ; after which, however, the tumefaction entirely fublides. Here it may be observed, that this complaint can seldom or never obstruct dellvery, as the labia are fituated at the anterior parts of the offa pubis, and can rarely affect the firetching of the frænum, perinæum, vagina, and rectum. From this figure it appears, that the firetching of the uterus can cafily be felt at this period in lean subjects, through the parietes of the abdomen, espe-cally if the intestines 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 also preffed to each fide. Hence the nearer a woman is to her

full time, the stretching is the more easily felt. Vide part i. book i. chap. iii. fect. iii. Book iii. chap. i. fect. ii. and part ii. coll. xii. xiii.

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TABLE VIII.

I N the fame view and fection of the parts as in table vi. is reprefented the uterus of the former table, in order to shew its contents, and the internal parts as they appear in the fixth or feventh month of pregnancy. -A. The uterus firstched up to the umbilical region. -B. The fuperior part of the offa ilium.-C. The acetabula.-D. The remaining posterior parts of the offa ischium.-E. The anus.-F. The vagina.-G. The bladder of urine. — H. The neck of the womb shorter than in table vi. and raifed higher by the firstching of the uterus above the brim of the pelvis.--I. The veffels of the uterus larger than in the unimpregnated state.--K. The placenta adhering to the inferior and posterior part of the uterus. L. The membranes that furround the foctus, the head of which is here reprefented (as well as of those in table vi.) fituated downward at the inferior part of the uterus, and which I am apt to believe is the usual fituation of the foctus when at reft, and furrounded with a great quantity of waters, as the head is heavier than any other part. With respect to the fituation of the body of the focus, though the fore parts are often turned toward the fides and posterior 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 diffinct and picturesque manner.

Vide part i. book i. chap. iii. feft. iii. iv. Part ii. collect. xiii. numb. i. From this table may appear the difficulty of ftretching the os uteri in flooding cafes, even at this period, from the length and thicknefs of the neck of the womb, efpecially in a first 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 should 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 from this table, is at this time fufficiently ftretched to receive the operator's hand to extract the fœtus, if the os internum can be fafcly dilated.

Laftly, it may be observed, that women are in greater danger in this period and afterwards, than in the former months.

Vide part i. book iii. chep. iv. fect. iii. numb. i. ii. iii. Part iii. coll. xxxiii. numb. ii. See alfo, in the Edinburgh Physical and Literary Observations, art. xvii. the diffection of a woman with child, by Dr. Donald Monro, 'physician at London.

TABLE IX.

IN 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 firetched to near its full extent with the waters, and containing the fœtus 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





placenta at the fuperior and posterior part of the utcrus.—L. The membranes.--M. The funis umbilicalis.

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B.C.D.

This and the foregoing table shew in what manner the uterus stretches, and how its neck grows shorter, in the different periods of pregnancy; as also the magnitude of the focus, in order more fully to explain part i, book i. chap. iii. fect. iv. v. also book iii. chap. i. fect. i. ii. likewise part ii. coll. xiii. numb. i.

Notwithstanding it has been handed down as an invariable truth, from the earliest accounts of the art to the prefent times, that when the head of the foctus prefented, the face was turned to the posterior part of the pelvis, yet from Mr. Oald's observation, as well as from fome late diffections of the gravid uterus, and what I myself have observed in practice, I am led to believe that the head prefents, for the most part, as here delineated, with one 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 pelvis.

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

ΫĂ B L Ĕ X,

GIVES a front view of twins in utero in the beginning of labour; the anterior parts being removed, as in the preceding tables.--.A. The uterus as firetched with the membranes and waters.—B. The fuperior parts of the offa ilium.—C. The acetabula.—D. The offa ifchium.—E. The coccyx.—.F. The lower part of the rectum.—G. The vagina.—.H. The os internum firetched open about a finger's breadth, with the membranes and waters in time of labour-pains.—.I. The interior part of the uterus firetched 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 fœtufes 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 as 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 confequence, I have placed it here, in order to fhew the os uteri grown much thinner than in the former figure, a little open and ftretched by the waters and membranes which are pufhed down before the head of one of the fœtufes in time of a labour-pain. With refpect to the position 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 iii. chap. i. fect. iv. and chap. v. fect. i. and part ii. coll. xiv. and part iii. coll. xxxvii.

TABLE XI.

E X H I B I T S another front view of the gravid uterus in the beginning of labour; the anterior parts being removed, as in the former table; but in this, the membranes not being broken, form a large bag, containing the waters and focus.——A. The fubftance 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 firetched in time of a pain; with I. the membranes and waters. This circumftance makes it ufually certain that labour is begun; whereas, from the degree of dilatation reprefented in the former table, there is little to be afcertained unlefs the pains are regular and firong, the os uteri being often found more open feveral days, and even weeks, before labour commences.— K. The chorion.— L. The fame diffected off at the inferior part of the uterus, in order to fhew the head of the fœtus through the amnios. (N. B. This hint is taken from one of Dr. Albinus's tables of the gravid uterus.)— M. The placenta; the external convex furface of which divided into a number of lobes, 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 uterus, and fometimes even over the infide of the os uteri; this laft manner of adhefion, however, always occasions floodings as foon as the fame begins to dilate.

Tables vi. viii. ix. x. fhew the internal furface of the placenta towards the fœtus, with the veffels composing 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.

The thirtieth and thirty-third tables fnew the infertion of the funis into the abdomen of the focus.

With respect to the expulsion of the placenta when the membranes break, the uterus contracts as the waters are evacuated till it comes in contact with the body of the fœtus: the fame being delivered, the uterus grows much thicker, and contracts clofely to the placenta and membranes, by which means they are gradually feparated, and forced into the vagina. This fnews that we ought to follow the method which nature teaches, waiting with patience, and allowing it to feparate in a flow manner; which is a much fafer practice, effectially when the patient is weak; as the difcharge is neither fo great or fudden as when the placenta is hurried down in the too common method. But then we must not run into the other extreme, but affift when nature is not fufficient to expel the fame.

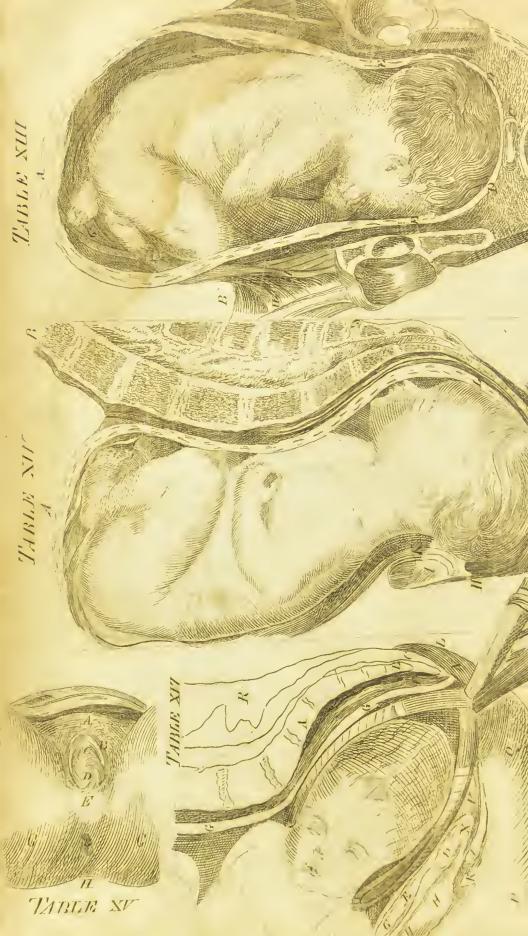
Vide part i. book iii. Chap. i. fect. iv. Chap. ii. fect. ii. v. Part ii. coll. xiv. xxiii.

TABLE XII.

S H E W S (in a lateral view and longitudinal division of the parts) the gravid uterus, when labour is fomewhat advanced. A. The loweft vertebra of the back. B. The fcrobiculus cordis ; the diffance from which to the laft-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 uterus when extended with the waters at the latter end of pregnancy. D. The fame contracted and grown thicker after the waters are evacuated. E. The figure of the uterus when pendulous. In this cafe, if the membranes break when the patient is in an erect position, the head of the fœtus 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 ftretehed higher than ufual, which generally oceasions vomitings and difficulty of breathing. Confult on this fubject Mr. Lever

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veret fur le Mechanisme de differentes Groffestes. G. The os pubis of the left fide. H. The os internum. I. The vagina. K. The left nym₁ ha. L. The labium pudendi of the fame inde. 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 firetched by the membranes pufhing down and beginning to extend the vagina, a great quantity of water is forced down at the fame time, and (if the membranes break) is difcharged; whence the uterus contracts itielf nearer to the body of the fœtus, which is here reprefeated in a natural polition, with the vertex refting at the fuperior part of the offa pubis, and the forehead towards the right os ilium. As foon as the uterus is in contact with the body of the fœtus, 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, vizfrom the uppermoft F, to near the end of the coccyx, and is gradually pufhed lower, as in the following table.

If the membranes do not break immediately upon their being pushed into the vagina, they should be allowed to protrude still farther, in order to dilate the os externum.

Vide part i. book i. chap. ii. fect. ii. Chap. iii. fect. 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.

TABLE XIII.

IN the fame view and fection of the parts as in table vi. fnews the natural polition of the head of the focus when funk down into the middle of the pelvis after the os internum 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 vagina.—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 firetched with the head of the focus.—E. The os internum fully opened.—F. A portion of the placenta.—G. The membranes.—H. The ligamenta lata.—I. The ligamenta rotunda. Both thefe laft firetched upward with the uterus.

The vertex of the fœtus being now down at the inferior part of the right os ifchium, and the wide part of the head at the narrow and inferior part of the pelvis, the forehead, by force of the pains, is gradually moved backwards; and as it advances lower, the vertex and occiput turn out below the 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 pelvis, than from the back to the fore part; 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. fect. ini. iv. Alfo book iii. chap. iii. fect. iii. iv. numb. iii. Part ii. coll. xiv.

TABLE XIV.

I N a fimilar view and fection of the parts with table xii. fnews the forehead of the focus turned (in its progression downwards, from its position in the former table) backwards to the os facrum, and the occiput below

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below the pubes; by which means the narrow part of the head is to the harrow part of the pelvis, that is, between the inferior parts of the offa ifchium. Hence it may be observed, that though the distance between the inferior parts of the last-mentioned bones is much the fame as between the coccyx and pubes, yet as the cavity of the pelvis is much fhallower at the anterior than lateral part, the occlput of the fectus, when come down to the interior part of either os ifchium, turns out below the pubes: this answers the fame end as if the pelvis itfelf had been wider from the posterior part than from fide to fide; the head likewife enlarging the cavity by forcing back the coccyx, and putting out the external parts in form of a larger tumour, as is more fully deferibed in the following table.

Vide part i. ii. as referred to in the preceding table. A. The úterus contracted closely to the foctus after the waters are evacuated. B. C. D. The vertebre of the loins, os facrum, and coccyx. E. The ands. F. The left hip....G. The perinæum....H. The os externum begillining to dilate. I. The os public of the left fide....K. The remaining portion of the bladder....L. The pofteriot part of the us uteri.

N.B. Although for the most part, at or before this period, the waters' are evacuated, yet it often happens, that more or lefs will be retained, and not all difcharged, till after the delivery of the child; occasioned from the prefenting part of the focus coming into close contact with the lower or under pair of the uterus, vagina, or os externum, immediately or foon after the membranes break.

T A B L E XV.

IS intended principally to fhew in what manner the perinæum and external parts are itretched by the head of the foctus in a first pregnancy, toward the end of labour.—.A. The abdomen.—.B. The labia pudendi. C. The clitoris and its præputium.—.D. The hairy fealp of the foctus fwelled at the vertex, in a laborious cafe, and protrided to the os externum. $\therefore E. F.$ The perinæum and ands puffied out by the head of the foctus in form of a large tumour.—G. The parts that cover the tuberofities of the offa ifchium.—H. The part that covers the os coccygis.

The perinzum in this figure is firetched two inches, or double its length in the natural flate; but when the os externum is for much dilated by the head of the fœtus as to allow the delivery of the fame, the perinzum is generally firetched to the length of three, and fometimes four inches. The anus is likewife lengthened an inch, the parts alfor between it and the coccyx being much diffended. All this ought to caution the young practitioner never to precipitate the delivery at this time, but to wait and allow the parts to dilate in a flow manner; as, from the violence of the labourpains, the fudden delivery of the head of the fœtus might endanger the laceration of the parts. The palm of the operator's hand ought therefore to be prefied against the perinæum, that the head may be prevented from paffing till the os externum is fufficiently dilated to allow its delivery, without tearing the frænum and parts betwixt that and the anus, which are at this time very thin.

Vide part i. book iii. chap. ii. fect. ii. Chap. iii. fect. iv. numb. i. and book iv. chap. i. fect. i. Alfo part ii. coll. xiv. xxiv. Part iii. coll. xl.

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TABLE XVI.

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 taken at the fame time that the parts are by a proper covering defended from the external air. If the hairy fcalp of the focus is fo fwelled that the fituation of the head cannot be diffinguished by the futures, as in table xxi. or if, by introducing a finger between the head of the child and the pubes or groins, the ear or back part of the neck cannot be felt, the os externum must be gradually dilated in the time of the pains with the operator's fingers (previously lubricated with hogs-lard) till the whole hand can be introduced into the vagina, and flipped up in a flattifta form between the posterior part of the pelvis and child's head. This last then is to be raifed up as high as possible, to allow room for the fingers to reach the ear and posterior part of the neck. When the position of the head is known, the operator muft withdraw his hand, and wait to fee if the firetching of the parts will renew or increase the labour-pains, and allow more space for the advancement of the head in the pelvis. 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 represented in the table. But if the pelvis is difforted, and projects forward at the superior 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 end of the forceps to pass the fame ; in that case, I fay, the blade must be introduced along the posterior pare of the car at the fide of the difforted 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 opposite 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 tuberofities of the offa ifchium, it is to be turned from the left ischium out below the pubes and the forehead backward to the concave part of the os facrum and coccyx, as in table xvii. and afterward the head brought along and delivered as in table xviii. and xix. But if it is found that the delivery will require a confiderable degree of force from the head being large or the pelvis narrow, the handles of the forceps are to

to be tied together with a fillet, as reprefented in this table, to prevent their position being changed, whils 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 table flews 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 fpace between the umbilicus and fcrobiculus cordis. When the forceps are applied along the ears and fides of the head, they are nearer to one another, have a better hold, and mark lefs than when over the occipital and frontal bones.

Vide part i. book iii. chap. iii. from fect. i. to vi. and part ii. coll. xxv. xxvi: xxvii. and xxix:

T Á B L E XVII:

IN the fame view with the former, reprefents in outlines the head of the foctus brought lower with the forceps, and turned from the position in the former table, in imitation of the natural progression by the labourpains, which may likewife be supposed to have made this turn before it was necessary to affist with the forceps, this necessity at last arising from many of the causes mentioned in part is

In this view the position of the forceps along the ears and narrow part of the head is more particularly expressed. It appears also, that when the vertex is turned from the left os ifchium, where it was closely confined, it is difengaged by coming out below the pubes, and the forehead that was preffed against 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 passes still easier along. When the head is advanced fo low in the pelvis, if the pofition cannot be diftinguished by the futures, it may for the most part be known by feeling for the back part of the neck of the fœtus, with a finger introduced betwixt the occiput and pubes, or toward one of the groins. If the head is fqueezed into a longish form, as in table xxi. and has been detained many hours in this pofition, the pains not being fufficient to complete the delivery, the affiftance of the forceps must 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 used except in the most urgent neceffity.

This table alfo fnews that the handles of the forceps are fill to be kept back to the perinæum, and, when in this position, 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 position, they are more easily introduced when the patient is in a fupine position, 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 have 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 first, as in table xxxv. the fame are represented here by dotted lines. They may be used in laborious cafes as well as the others, but are not managed with the fame eafe.





Most of the parts of this table being marked with the fame letters as the Former, the defcriptions there given will answer in this, except the following.---L. M: The anus.--M. N. The perinæum.--O. The common in-teguments of the abdomen.--R. The fhort forceps.---S. The long curved forceps. The first of these is eleven inches long, and the last twelve inches and a half, which I have after feveral alterations found fufficient; but this need not confine others who may chuse to alter them from this standard. Vide table xxxvii.

TABLE XVIII:

IN the fame view and section of the parts; shews the head of the foetus in . the fame polition, 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 perinzum are fitetched out in form of a large tumour, as in table xv.

When the head is fo far advanced, the operator ought to extract with 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 against 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 and more in a gradual manner, from the force of the labour-pains as well as the assistance of the fingers. But if the former are weak and infufficient, the affiftance of the forceps must be continued. (Vide the description of the parts in tab. xvi.) S. T. in this; represent the left fide of the os uteri. The dotted lines demonstrate the fituation of the bones of the pelvis on the right fide, and may ferve as an example for all the views of the fame.—a. b. r. b. The outlines of the os ilium.—D. e. f: The fame of the pubis and ifchium. i. i. k. The acetabulum.—m. n. The foramen magnum.

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

TABLE XIX.

I N the fame view and fection of the pelvis, is intended by outlines to fhew, that as the external parts are firetched, and the os externum is dilated, the occiput of the foctus 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 fame time the forehead and face, in their turn upward, diftend largely the parts between the coccyx and os externum. This is the method observed by nature in ftretching these parts in labour; and as nature is always 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 references. and and and and

I N the fame fection of the parts, but with a view of the right fide, fhews the head of the foctus in the contrary polition to the three last figures, the vertex being here in the concavity of the facrum, and the forehead 10

[PART I.

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.—G. The labium pudendi of the right fide.—H. The hip and thigh.—I. 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 labour-pains, gradually dilate the os externum, and firetch the parts between that and the coccyx in form of a large tumour, as in tab. xv. till the face comes down below 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.

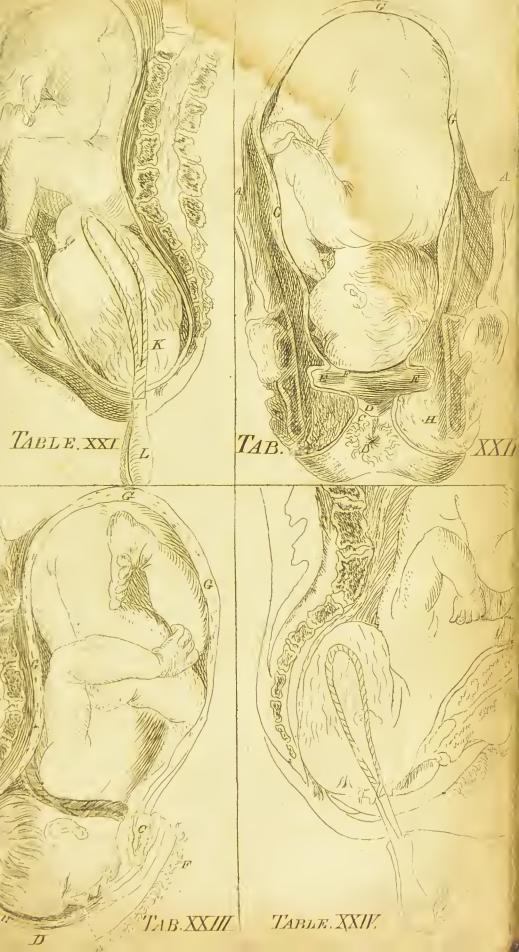
Vide part i. book iii. chap. iii. fect. iv. numb. iii. Part ii. collect. xvi. numb. ii.

TABLE XXI.

S H E W S the head of the fœtus in the fame position as in the former table; but, being much larger, it is by ftrong labour-pains fqueezed into a longish 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 labour-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 risk of tearing the perinæum, and even the vagina and rectum of the woman, the forehead must be turned backward to the facrum. To do this more effectually, the operator must grasp firmly with both hands the handles of the forceps, and at the fame time pushing upward raise the head as high as possible, in order to turn the forehead to one fide, by which it is brought into the natural position; this done, the head may be brought down and delivered as in tab. xvi. &c.

Vide part i. book iii. chap. iii. feft. 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 compression and elongation of the head as well as the tumour on the vertex, may be supposed 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 forehead may be moved to the natural position by the associate of the fingers or only one blade of the forceps. The forceps may either be the ftraight kind, or such as are curved to one fide, when it is neceffary to use one or both blades.....M. The vession of the head against the urethra; which sheat the urine ought to be drawn off with a catheter, in such the extraordinary cases, before you apply the forceps, or in preternatural cases, where the child is brought spotting.....N. The under part of the utcrus.

T A B L E XXII.





perinæum.-D. Theos externum; the thickness of the posterior part before it is firetched with the head of the child.____E. The vagina.____F. The os uteri not yet fully dilated.---G. The uterus.----H. The membrana adipola.

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 position cannot be altered, the child must, if possible, be delivered footling, or delivered with the forceps.

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

T A B L E XXIII.

SHEWS, 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 vertebræ of the loins, os facrum, and coccyx.-C. The os pubis of the left fide.-D. The inferior part of the rectum.-E. The perinzum.-F. The left labium pudendi.— \dot{G} . The uterus.

When the pelvis is large, the head, if fmall, will come along in this polition, and the child be faved; for as the head advances lower, the face and forehead will stretch the parts between the frænum labiorum and coceyx in form of a large tumour. As the os externum likewife is dilated, the face will be forced through it; the under part of the chin will rife upward over 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 position. In this cafe, if the polition cannot be altered to the natural, the child ought to be turned, and delivered footling. If the pelvis, however, is narrow, and the waters not all gone, the vertex should if possible be brought to present; but if the uterus is fo closely contracted that this cannot be effected, on account of the firong pressure of the fame and slippiness of the child's head, in this case the method directed in the following table is to be taken.

> TABLE XXIV.

REPRESENTS, in the lateral view, the head of the foctus in the fame polition as in the former table; but the delivery is supposed to be retarded from the largeness of the head, or a narrow pelvis.

In this cafe, if the head cannot be raifed, and pushed up into the uterus, it ought to be delivered with the forceps in order to fave the child. This polition of the chin to the pubes is one of the fafest cafes where the face presents, and is most easily delivered with the forceps, the manner of intro-ducing of which over the ears is shewn in this table. The patient must lie on her back, with her breech a little over the bed, her legs and thighs be-ing supported by an affistant sitting on each side. After the parts have been flowly dilated with the hand of the operator, and the forceps introduced, and properly fixed along the ears of the child, the head is to be brought down U 2 by

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by degrees, that the parts below the os externum may be gradually firetched; the chin is then to be raifed up over the pubes, whilft 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 fœtus can neither be turned nor extracted with the forceps, the delivery must be left to the labour-pains, as long as the patient is in no danger; but if danger is apparent, the head must be delivered with the curved crotchets. *Vide* tab. xxxix.

When the face prefents, and the chin is to the fide of the pelvis, the patient must lie on her fide; and after the forceps are fixed along the ears, the chin is to be brought down to the os if chium, and then turned out below the pubes, and delivered 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 B L E XXV.

S H E W S, in a lateral view of the right fide, the face of the fœtus prefenting, as in tab. xxiii. but in the contrary position; 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 externum not yet begun to firetch —B. The anus. Vide tab. xx. for the farther defeription of the parts.

In fuch cafes, as well as in those of the last-mentioned table, if the child is fmall, the head will be pushed lower with the labour-pains, and gradually firstch the lower part of the vagina and the external parts; by which means the os externum 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 pass along with great difficulty; whence the brain, and veffels of the neck, will be for much compressed and obstructed as to destroy the child. To prevent 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.

$T \cdot A \quad B \quad L \quad E \quad `XXVI.$

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REPRESENTS, by out-lines, in a lateral view of the left fide of the fubject, the fœtus 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 method in this cafe, after either the fhort or long-curved forceps have been 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 os facrum to either os ifchium, and afterwards brought down to the inferior part of the laft-mentioned bone. This done, the operator must pull the forceps with one hand, whilft two fingers of the other are fixed on the lower part of the chin or under-jaw, to keep the face in the middle, and prevent the chin from being detained at the os ifchium as it comes along; and in this manner move the chin round with the forceps and and the above fingers till brought under the pubes; which done, the head will be eafily extracted, as in table xxiv. If, before affiftance has been called, the head is fo fqueezed down into

If, before affiltance 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 muft wait with patience as long as the woman is not in danger, or there is no certainty of the death of the fœtus : 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 most easily 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 observed in the cases where the vertex prefented.

Vide table xxiv. for the description of the parts, and the references, Alfo table xxxix. for the manner of using the crotchet.

T A B L E XXVII.

GIVES a lateral internal view of a difforted pelvis, divided longitudinally, with the head of a foctus of the feventh month paffing the fame. *Vide* the explanation of table iii. A. B. C. The os facrum and coccyx. D. The os publis of the left fide.—E. The tuberofity of the os ifchium of the fame fide.

The head of the fœtus 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 manuer 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 xvi.

This figure may ferve as an example of the extreme degree of diffortion of the pelvis, between which and the well-formed one are many intermediate degrees, according to which the difficulty of delivery muft increase or diminish, as well as from the disproportion of the pelvis and head of the fœtus; all which cases require the greatest caution, both as to the manageiment and fafety of the mother and child.

Vide 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.

TABLE XXVIII.

GIVES a fide-view of a difforted pelvis, as in the former table, with the head of a full-grown foctus fqueezed into the brim, the parietal bones decuffating each other, and compressed into a conical form.—A.B.C.. The os facrum and coccyx.—D. The os public of the left fide.—E. The tuberofity of the os ifchium.—F. The processes acutus.—G. The foramen magnum. This table fnews the impoffibility in fuch a cafe to fave the child, unlefs by the Cæfarean operation; which, however, ought never to be performed, excepting when it is imprachable to deliver at all by any other method. Even in this cafe, after the upper part of the head is diminished in bulk, and the bones are extracted, the greatest force must be applied in order to extract the bones of the face and basis of the skull, as well as the body of the foctus.

Vide part i, book iii. chap. iii. fect. vii. Chap. v. fect. iii. and part iii. coll. xxxi. xxxix.

TABLE XXIX.

R E P R E S E N T S, in a front view of the pelvis, as in table xxii. the breech of the fœtus prefenting, and dilating the os internum, the membranes being too foon broke. The fore parts of the child are to the pofterior part of the uterus; and the funis with a knot upon it furrounds the neck, 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 fame position with its body as in table ix. fupposing the breech in that figure turned down to the pelvis, and the head up to the fundus uteri.

I have fometimes felt in these cases (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; but 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 position, viz. one 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 obfluct the circulation. In most cases where the breech prefents, the effect of the labour-pains ought to be waited for, till at least they have fully dilated the os internum and vagina, if the fame have not been stretched before with the waters and membranes. In the mean time, whill the breech advances, the os externum may be dilated gently during every pain, to allow room for introducing a finger or two of each hand to the outlide of each groin of the foctus, in order to affift the delivery when the nates are advanced to the lower part of the vagina. But if the foctus 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 time of failing, the operator mult in a gradual manner open the parts, and, having introduced a hand into the vagina, raife or pufh up the breech of the foetns, and bring down the legs and thighs. If the uterus is fo firongly contracted that the legs cannot be got down, the largest end of the blunt-hook is to be introduced, as directed in table xxxvii. As foon as the breech or legs are brought down, the body and head are to be delivered, as defcribed in the next table, only there is no neceffity here to alter the polition of the child's body.

Vide part i, book jii. chap. iv. fect. i. ii. Part iii. col. xxxii.

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

T A B L E XXX.

SHEWS, in the fame view and with the fame references as the former. the breech 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 must 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 should in the mean time force down the body of the child, it ought to be pushed up again in turning, as it turns easier when the belly is in the pelvis, than when the breast and shoulders are engaged; and as sometimes the face and forehead are rather towards one of the groins, a quarter-turn more brings these parts to the fide of the pelvis, and a little backwards, after which 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 shoulders and body of the child to the perinæum, and, whilst the chin and face are within the vagina, to bring the occiput out from below the pubes, according to Daventer's method; or the operator may introduce a finger or two into the mouth, or on each fide of the nofe, and supporting 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 fhoulders, the arms are to be cautioufly brought down, and the head delivered. If the woman has ftrong pains, and when by the felt pulfation of the veffels of the funis umbilicalis, or the struggling motions of the foctus, it is certain that the child is still alive, wait with patience for the affistance 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 breech must be pushed up; and if the refistance 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 deferibed.

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 infufficient, the crotchet muft be used as in table xxxix. and when it is certain that the child is dead, or that there is no possibility of faving it,

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[PART I:

T A B L E XXXI.

R EPRESENTS, in a front view of the pelvis, the fœtus compressed by the contraction of the uterus 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 posterior 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, repréfenting four different preternatural positions of the fœtus in utero, may serve as examples for the manner of delivery in these as well as in all other preternatural cases.

In all preternatural cafes, the foctus 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 firong, 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 firongly contracted to the body of the foctus, this laft method can feldom take place, on account of the firong preffure of the uterus, and flippinefs of the child's head.

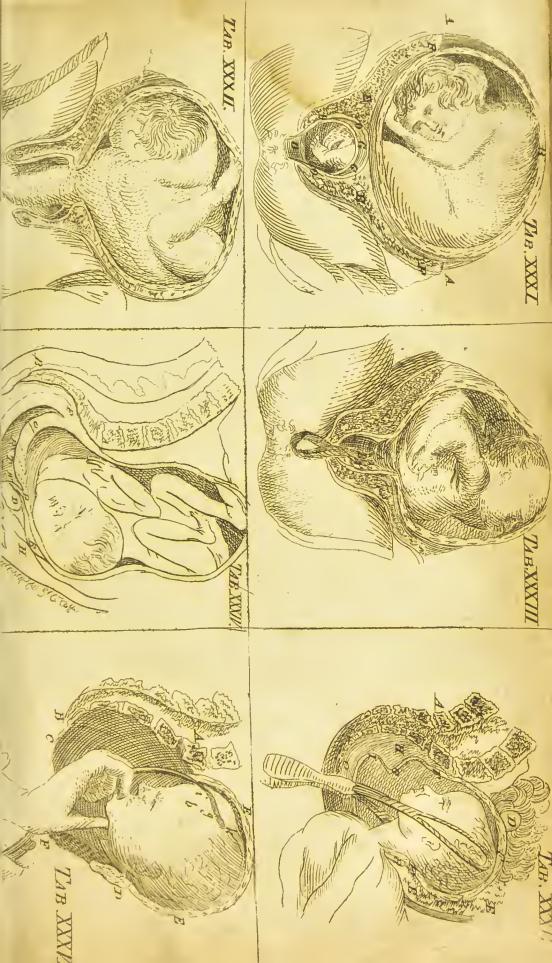
In the prefent cafe, the woman may either be laid on her back or fide, as defcribed in tables xvi. and xxiv. and the operator, having flowly dilated the os externum with his fingers, must introduce the fame into the vagina, and push up into the uterus the parts of the foctus that prefent; or if there is fpace for it, his hand may pass in order to dilate the os internum, if not fufficiently ftretched previoufly by the membranes and waters. This done, he must advance his hand into the uterus, to know the position of the foctus: 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 foctus, whilst the legs and thighs are pulled down 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 should not happen, there will be great danger of over-straining the foctus, which is prevented by the former method. 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 first pregnancy, the parts of the foctus should be allowed to protrude still farther, by which means the rigidity of the os internum will in time be leffened.

Vide part i. and iii. on preternatural labours.

TABLE XXXII.

REPRESENTS, in the fame view with the former, the foctus in the contrary polition; the breech and fore parts being toward the fundus uteri, the left arm in the vagina, and fore arm without the os externum, the shoulder being likewife forced into the os uteri.

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The operator in this cafe muft introduce his fugers between the back part of the vagina and the arm of the fœtus, in order to raife the fhoulder and make room for preffing his hand into the uterus to diftinguish the position. This being known, he ought to push up the fhoulder to that part of the uterus where the head is lodged, in order to raife the fame to the fundus. If the body of the fœtus does not move round, and thereby lies in a more convenient position for bringing down the legs, the hand of the operator ought to be pushed up still higher to fearch for and take hold of the feet, which are to be brought down as far as possible. If this should not change the position, the shoulder is to be pushed 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, whillt the other, previoufly introduced into the uterus, puffies up the fhoulders and head. By this double force the polition of the fœtus is to be altered, and the delivery effected. In these cases, 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 must be taken off at the fhoulder or elbow, in order to deliver and fave the woman. If both the arms come down when the breast prefents, the methods above deferibed are to be ufed.

Vide the explanations and references of the foregoing table:

TABLĖ XXXIII.

E X HIBITS, in the fame view likewife of the pelvis with the former, a third polition of the foctus when compressed into the round form, viz. 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 breaft and bringing down the legs. When the belly prefents, it is eafier coming at the legs than when the breast prefents, becaufe in the former cafe the head is nearer to the fundus uteri, and the legs and thighs lower. If the belly or breaft 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 these parts up into the uterus, in order to come at the feet, that it will fometimes be neceffary to turn the woman on her knees and elbows, to diminish the resistance of the abdominal muscles. When the funis comes down without the os externum, if there is a pulfation felt, it mult immediately be replaced and kept warm in the vagina, to preferve the circulation, and prevent a flagnation from its being exposed to the cold air. If the funis comes down when the head prefents, the child is in danger, if not speedily delivered with the pains, or brought footling.

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See explanations to the two former tables.

TABLE

[PART I.

T 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 fætus prefenting, the head reflected over the pubes to the right fhoulder and back, and the feet and breech firetched up to the fundus, the uterus contracted at the fame time in form of a long fheath round the body of the fætus. *A. B. C.* The os facrum and coccyx. *D.* The os publis of the left fide. *E.* Part of the urinary bladder. *F.* The refum. *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 firetched 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 foctus 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. xiii.

The manner of delivery in the polition of the fœtus as reprefented in 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 puft up his hand in a flow and cautious manner along the break 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 polition of the fœtus will admit of. The body is then to be moved round, by pufting 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.

T A B L E XXXV.

S H E W S, in a lateral view of the pelvis, the method of affifting the delivery of the head of the foctus 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 vertebræ of the loins, with the os facrum and coecyx.—B. The os publis of the left fide.—C. The perinæum and anus prefied backward with the forceps.—D. The inteflines.—E. The parieties of the abdomen.—F. The uterus.—G. The pofterior part of the os uteri.—H. The reftum.—I. The vagina.

After the body and arms of the child are delivered, and the different methods ufed to bring down the head with the hands, as directed in the above table, and more fully deferibed in parts i. and iii. the following method is to be tried in order to fave the child, who must otherwife be loft by over-ftraining the neck and fpinal marrow : The woman being in the fupine position, as in table xxiv. one of the affiftants ought to hold the body and arms 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

the child's face, and moved it from the fide a little backward for the easier application of the forceps along the fides of the head, must 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 against the blade that is up, and which is thus prevented from flipping whilft the other hand introduces the fecond blade on the oppofite fide. The blades being thus introduced, care must 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 must 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 increased according to the refistance from the largeness of the head or narrowness 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 use of the crotchet prevented, except in those basons that are fo narrow that it is impoffible to deliver without diminishing the bulk of the head.

Vide table xxxix. Alfo part i. book iii. chap. iv. fect. v. Part iii. coll. XXXIV. XXXV.

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 focus, 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 locking 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 must be opened, that its bulk may diminish as it is extracted. The patient being placed either on her back or fide, as in the explanation of table xvi. and xxiv. the left-hand of the operator is to be introduced into the uterus, and the forehead of the focus turned to the right-fide of the brim of the pelvis, and a little backward, the chin being downward; after which the palm of the hand and fingers are to be advanced as high as the fontancl, and the head grafped with the thumb and little finger on each fide, as firm as is possible, whilst an affistant 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 fontanel, and there, or near it, fix the point of the crochet, keeping still the left-hand in the former position, till with the other he pierces the cranium with the point of the in-Arument,

frument, and tears a large opening in it from K. to I.; after this, keeping the crotchet sleady, he m.y slide down 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 operator may begin and pull flowly with both hands; and as the brain difcharges through the perforation, the head will diminifh and come along. If this method fhould fail from the flippiness of the head, or its being fo much offified that a fufficient opening cannot be made, the vertex must be turned down to the brim of the pelvis, the fontanel backward, and each blade of the long forceps introduced along the fides of the head, with the curved fide toward the pubes. After they are joined and locked, the handles are to be tied together with a fillet, to keep them firm on the head ; an affiftant is to keep the handles backward till the crapium is large lyopened with the long feiffars fhewn in table xxxix. This done, the head is to be extracted in a flow manner, first 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 fnew 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 iii. coll. xxxi. xxxvi.

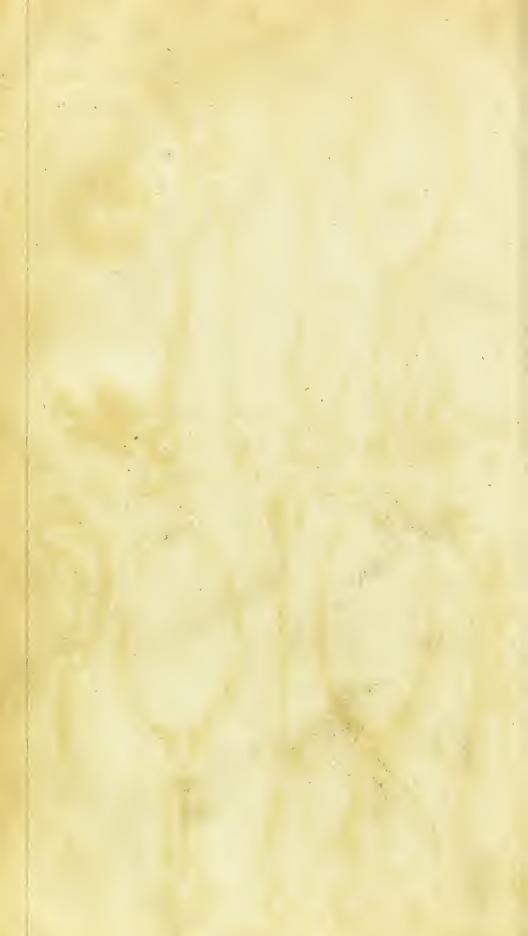
TABLE XXXVII.

AND the two following, reprefent feveral kinds of inftruments ufeful in laborious and difficult cafes. A. The ftraight fhort forceps, in the exact proportion as to the width between the blades, and length from the points to the locking part ; the first being two and the fecond fix inches, which with five inches and a half (the length of the handles) make in all eleven inches and a half. The length of the handles may be altered at pleasure. I find, however, in practice, that this standard is the most convenient, and with lefs difficulty introduced than when longer, having alfo fufficient force to deliver, in most cafes, where their affistance is necessary. The handles and lowest 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 thinner kind, which may eafily be renewed when there is the least suspicion of venercal infection in a former cafe : by being thus covered, 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 posterior part of a fingle blade, in order to fhew the open part of the fame, and the form and proportions of the whole. The handles, however, as here reprefented, are rather too large. 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 forceps were at first contrived to fave the focus, and prevent as much as possible the use of sharp instruments; but even to this falutary method recours ought not to be had but in cases where the degree of force requisite to extract will not endanger, by its confequences, the life of the mother

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ther; for, by the imprudent use 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, used for three purposes, viz.

First, To affist the extraction of the head after the cranium is opened with the feisfars, 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, whilst two fingers of the other are to be introduced into the aforefaid opening, by which holds the head is to be gradually extracted.

Secondly, The fmall end is ufeful in abortions, in any of the first four or five months, to hook down the feeundines 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 also unable to expel them, and when they cannot be extracted with the fingers. But if the placenta still 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 still 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 useful to affift the extraction of the body, when the breech prefents; but should be used with great caution, to avoid the diflocation or fracture of the thigh.

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 XXXVIII.

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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 fœtus prefents, and the head is forced down into the lower part of the pelvis, the woman weak, and the pains not fufficient to deliver it, the double of the fillet is to be introduced along the fore part of the parietal bones to the face, and, if poffible, above the under-jaw; which done, the whalebone may be either left in or pulled down out of the fheath, and every weak pain affifted 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 fheath. --B. 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 uteri retained in the concave part, where there are three holes to prevent the flagnation of any moifure. The fmall end without the os externum has rwo tapes drawn through the two holes, which are tied

tied to four other tapes, that hang down from a belt that furrounds the woman's body, and by this means keep up the peffary. This fort may be taken out by the patient when the goes to bed, and introduced again in the morning; but as this fometimes rubs the os externum, fo as to make its ufe uneaf; 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 lubricated 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 externum. 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.

Vide part i. book iv. chap. i. fect vii. Part iii. coll. xxiv.

D. Gives two views of a female catheter, to fhew its degree of curvature and different parts. Those for common use may be made much shorter, for conveniency of carrying in the pocket: but sometimes, when the head or body of the child prefies on the bladder above the pubes, it requires one of this length; and in some extraordinary cases I have been obliged to use a male catheter.

Vide part i. book ii. chap. i. fect. i. ii. Part ii. coll. x. numb. II.

TABLE XXXIX.

REPRESENTS, by a, a pair of curved crotchets, locked together in the fame manner as the forceps. It is very rare that the use of both is neceffary, excepting when the face prefents with the chin turned to the facrum, and when it is impossible to move the head to bring the child footling, or deliver with the forceps. In that cafe, if one crotchet is not fufficient, the other is to be introduced, and, when joined together, will act as forceps in moving and turning the head more conveniently for the delivery of the fame. They may also be useful to affift when the head is left in the uterus, and one blade is not fufficient. There is feldom occafion, however, for the fharp crotchet, when the head prefents ; the blunthook intable xxvii. being commonly fufficient, or even the forceps, to extract the fame after it is opened with the feislars. Great care ought to be taken, when the sharp crotchet is introduced, to keep the point toward the fœtus, especially in cases 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 sheath withdrawn, and the point, being uncovered, is fixed as directed in table xxxvi.

The point, guarded with this fheath, may also be used instead of the blunt hook.—b. Gives a view of the back part of one of the crotehets, which is twelve inches long.—c. Gives a front-view of the point, to fhew its length and breadth, which ought to be rather longer and narrower than here represented.—d. Represents the sciffars proper for perforating the cranium in very narrow and distorted pelvises. They ought to be made very strong, and nine inches at least in length, with stops or rest in the middle of the blades, by which a large dilatation is more easily made.

The above inftruments ought only to be used in the most extraordinary cafes, where it is not possible to fave the woman without their assistance.

Vide part i. book iii. chap. iii. fect. v. Chap. v. numb. i. Part ii. coll. 31, 35.

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TABLE XL.

A MONG the few improvements which have been made in the obstetrical apparatus fince the days of Dr. Smellie, the most important are the alterations in the forceps, by which the inconveniences formerly attending the use of that instrument are obviated, and the operation is rendered more fase and easy.

In contriving these alterations, the intentions were; 1. That the large curves should correspond as nearly as possible with that of the pelvis. 2. That their points should be thrown forward, and made round, to prevent their hitching, or even preffing uneafily against any part of the pelvis; and likewife to maintain their hold of the head whilft it is to be brought forward in that curved line of direction which nature observes. 3. That an inverted curve should be made toward the joints, whereby the perinxum may be faved from injury, the extracting force rightly conducted, and the handles at the fame time kept from preffing uneafily on the inferior and anterior parts of the pubes. 4. That their fubstance should 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 prefsequally 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 uneafily or hurt the woman. 7. That their length be fuch as can be applied fafely and commodioufly within the pelvis, and at the fame time fuit the different fizes of the heads as much as poffible.

The inftrument, executed according to thefe intentions, is called the *fbort curved forceps*. It confifts of two blades, or parts; each of which is diffinguifhed 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 flate.— $a \ a \ a$, are three holes for admitting forews to fix the wooden handle.—Fig. 2. fnews the inftrument finished and locked, in which flate it measures about 11 inches; and, when properly made, weighs about 11 ounces troy. The clams must be covered with the best Morocco leather shared thin, moistened with water, and fewed on with waxed filk.

Fig. 3. Reprefents a catheter lately preferred by practitioners. It is fliaight, perforated with 16 holes in four rows near the point, and terminated by a flight knob. The length is about 5 inches three-quarters.

END OF THE FIRST PART

[170]

SMELLIE'S MIDWIFERY. PART THE SECOND.

COLLECTION of CASES IN MIDWIFERY.

Α

COLLECTION I.

Of the Separation, rigidity, and distortion of the bones of the Pelvis. [Vide Part I. Book I. Chap. I.]

NUMB. I. CASE I. OF THE SEPARATION OF THE BONES.

WOMAN, about the age of thirty-five, being in labour of her first child, complained of a violent pain at the juncture of the ilium with the facrum on the right fide; and in time of the feverest pains, imagined these parts were separated from one another with violence. This circumstance was not at that time attended to by the midwife, who delivered her after a todious, 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 skin hot and dry, the lochia obstructed, a difficulty in her breathing, a pain and induration in one breast, and she was totally deprived of rest by the anguish in that part of the pelvis. She immediately lost twelve ounces of blood from the arm, an emollient clyster was injected, and a large quantity of hardened fæces discharged. In consequence of these evacuations, her back, head, and difficulty of breathing were relieved ; but the pain in her hip still continuing, warm stupes 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 these means she was thrown into a profuse fweat, refted well that night, and next morning the fever was abated, while the uterus yielded a copious discharge; the pain and induration in her breaft were greatly diminished, and the milk began to run out at the nip-ples; fo that the child, which had before made a fruitlefs attempt, now fucked with cafe. The only circumstance that now hindcred her from lying quict, and sweating, 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. *Bi.* Syr. de meconio q. f. f. bolus.

This fhe was obliged to repeat every night, and fometimes oftener, in brder to procure reft and maintain the neceffary diaphorefis; and a clyfter was adminiftered 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, fhe was not able to walk or fland, without being fupported under the right arm by an affiftant or a crutch, and continued in that fluation 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 ftrength and flability.

CASE II. Communicated by Dr. Smollett.

A GENTLEWOMAN about the age of twenty-feven, of a flender make, thin habit, an I lax fibre, was, in the eighth month of her first pregnancy, 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 fhe 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 preternatural extension, which certainly widened the pelvis for the more commodious passage 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 perceived fuch feparation in the bones of a living fubject, Dr: Lawrence once thewed me the pelvis of a woman who died foon after delivery, in which all the three bones were feparated almoft an inch from one another. I likewife faw the fame phenomenon in a pelvis belonging to Dr. Hunter. Spigelius, in his Anatomy, lib. ii. cap. xxiv. 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 innominata 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 nothing extraordinary was perceptable by the touch, could neither fit nor ftand without pain for the fpace of feveral months; nay, the weaknefs continued for a much longer time, during which they imagined themfelves always finking down between the haunch-bones.

NUMB. II. CASEI.

OF THE OS COCCYGIS OSSIFIED AND BENT INWARD.

I HAVE of late, in a very particular manner, examined the os coccygis, efpecially in laborious cafes, and in women who were turned of thirty before the birth of the first child; and have found it actually II Y offified offified in two patients, the first turned of forty, and the other about the age of thirty-three: but in neither of these cases 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 passed along, and the women were as easily delivered as those in whom the coccyx is moveable, though both children were of an ordinary fize. The coccyx and ifchia being much lower than the pubis, the back purt of the head is commonly pushed out below the last, by that time the forehead is pressed against the coccyx; for, in measuring from the brim of the pelvis, we find that the pubis, being much shallower than the other bones, allow an easy passed for the occiput to come out from below the fame; for which reason an offised coccyx feldom prevents the delivery, unless the head is larger than common, or the coceyx is bent inward in an extraordinary manner.—Vide tab. i. ii. and iv.

NUMB. III.

OF THE NARROW AND DISTORTED PELVIS. A LTHOUGH cafes of this kind are more naturally inferted among the operations of midwifery, I shall mention a few in this place, in order to preferve the regularity of our plan.

The most common diffortion of the pelvis is from the protrusion or jutting forwards of the last vertebra of the loins with the os facrum, and fometimes of two or three of the lowest 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 distance between the lowest vertebra and the pubis did not exceed two inches and a half. The first I delivered four times; but found it impossible to fave any of the children, cxcept one, which was fmall, and even in that the fhoulder was diflocated.

Vide 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 fmall in ftature, and difforted 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, fhe bore a live child in the feventh month. Vide coll. xxxv. 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 impossible to fave them, either by the forceps or by turning; but when I was called in time, and found them fmall, or even of a middle fize, the patient was commonly delivered by one of those methods, if the labour-pains were not fufficient.

I have been feveral times befooke to attend women in their first children by their friends, who were apprehensive that they would have difficult or dangerous labours, because they were difforted in their backs. Eight patients, in these circumstances, I delivered in the course of a year, and six of them had easy natural labours; the other two were more difficult, which proceeded from the large fize of the children, and the small make of the mothers. In a few cases, I have found one or two bones of the facrum jutting inward to such a degree, that the head of the child passed with great difficulty; in two of these I used the forceps, and at one time was obliged to dilate the bones of the cranium, as the lower ends of the offa is the inches associated the three inches associated.

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COLLECTION II.

Operations performed upon the external parts.

(Vide Part i. Book i. Chap. ii. Sect. i.) where any our granders

CASE I.

PRETERNATURAL SIZE OF THE NYMPHÆ.

WAS called to a young woman, who, by a fall from an hay-loft upon a post below, had bruised the labia pudendi. Besides an inflammation of the parts, I found one of the nymphæ 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 possible, this inconvenience, as the girl was to be married in a little time. The excision was accordingly performed with great eafe, as that part next the labia was very thin. The patient could recollect no caufe to which this excrefcence might be owing ; but faid, she first perceived it when she was fixteen years of age; that it gradually enlarged, and frequently gave her great uneafinefs, by itching, and being subject 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 fwelling of the glands.

CASE II.

I WAS prefent at the extirpation of the nymphæ, which were exceffively large and pendulous, in a woman who alledged, that the diforder proceeded from a venereal taint, of which the had been formerly cured.

Mauriceau, in Observation 313, mentions his taking off by ligature 2D elongation of the carunculæ myrtiformes.

CASE III.

OF AN OBSTRUCTED HYMEN:

A WOMAN 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 fhe was regular in the difcharge of the catamenia. She affirmed fhe had frequently felt the motion of the child, and was grown much bigger than her ordinary fize. I examined the abdomen, but could not feel the circumscribed tumour of the uterus; indeed the was corpulent, fo that the belly was large, though foft. I then di ected her to lean forwards on the back of a chair, and feating myfelf behind, attempted to examine the uterus by the vagina, when I found the entrance obstructed.

Through the persuasion of her mother, she consented to have the parts inspected; and being laid supine upon a couch, I separated the labia, when I perceived the hymen in form of a crescent, from the middle of which proceeded a kind of ligament attached to the lower part of the meatus urinarius, leaving a passage on each fide, capable of admitting a probe

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probe into the vagina, and of yielding paffage to the menfrual difcharge, but effectually obstructing the introduction of the penis. Having fnipped this attachment afunder, I introduced my finger into the vagina, and felt the uterus tifing up before it, as in the unimpregnated state, without any fensible weight or stretching of the part. From this circumstance I concluded, and assure the the was not with child; then introduced a large thick tent, dipped in red-wine, and fecured it with a bandage. After this operation, she foon became pregnant, and has since been delivered of feveral children.

CASE IV.

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A WOMAN brought to me a girl five or fix years old, whole hymen was imperforate, though it had been twice opened by a furgeon, but the h s of the incifion had united again.

I made an opening in the fame place with a biftory, which I gradually dilated, first with my little finger, and then with the fore finger, until I could touch the os uteri; then, fn pping with a pair of feisfars a fmall portion of the hymen that remained next to the frænum, I introduced a large tent, which was kept in the part by compressed and a proper bandage.

Hildanus, in Centuria 3, Obferv. 60, gives three examples in which the paffage was shut up by a membrane.

The first 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 nose, vanished, and did not return till the next period.

She had refufed feveral advantageous matches in confequence of thefe 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 be 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 could not admit the embraces of her hufband; and he, on that account, fued for a divorce; but, as fhe fufpected herfelf with child, feveral eminent furgeons examined the parts, and found the entrance to the vagina fhut up by a itrong callous membrane, in which were fmall openings, fufficient to allow the menftrual difcharge.

This membrane being dilated, and proper peffaries and applications used to keep the passages open, the husband was 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 refembles the following, communicated by Dr. D. Monro.

CASE V.

A GIRL of fifteen had all the fymptoms of the menfitual difcharge, which continued to terze her regularly every month, though nothing was evacuated from the uterus. When the attained the age of nineteen, her belly was confiderably fwelled; and finding a large tumour in her pudenda, denda, fhe applied for relief to his father, who immediately perceived it was occafioned by an imperforated hymen. This he forthwith opened with a lancet, which was inflantly followed by a difeharge of about three pints and an half of blood, of the confiftence of butter-milk, and colour of grumous blood, though without the leaft fmell or foctor : about half a pint of the fame fluid was evacuated before morning, and the girl did well,

CASE VI.

Communicated by Dr. George Macauly, Phyfician to the Lying-in-Hofpital in Brownlow-ftreet.

I WAS 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 those of labour, I ordered her to be bled, a clyfter to be injected, and preferibed fome other medicines. Next morning, I was informed more circumflantially of her illness by her mother, who faid fhe 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, because 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 pass one finger into the vagina, felt what I then took to be the membranes, with the waters pushing pretty low down.

From this circumftance I concluded fhe 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, though matters were not at all advanced, during three hours which had elapfed in my abfence.

Then it was I thought of enquiring whether or not fhe had ever undergone the menftrual difcharge, when, being 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 external 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 guels, two quarts of thick black blood. As it flowed out, and the great preffure 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 preferibed cordials and the bark, upon a prefumption that the parts, from the long-continued preffure, might be difpofed to mortification.

She recovered very fast, and was married in fix months after the aperture was made.

Ruyfch. tom. i. obfervat. 22, fays, he was called to a woman in labour, whole hymen was entire, and prevented the delivery of the child, by whole head it was diffended. An incifion being cautioufly made, he perceived another thick membrance farther in the vagina, which being also opened, the woman was delivered.

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Saviard, observ. iv. relates the case of a young lady whose vagina was obstructed by a membrane, which being cut, two pints of a stinking matter, of the consistence of leys of wine, were discharged.

He likewife gives an inflance of the entrance of the vagina being fo much contracted by the indifcreet use 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 and a half in circumference.

COLLECTION III.

OF THE THICKNESS OF THE UTERUS IN TIME OF GESTATION.

OME years ago (vide part iii. col. xxxix. cafe i. and ii.) I had opportunities of opening two women who had arrived at their full time, but died of violent floodings, before any affiftance could be procured to deliver them. The membranes were ftill unbroke, and both 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 my poffeffion, taken from a woman who died in the eighth month of her pregnancy, before the membranes were broke.

I have affilted in opening feveral women who died after delivery, in confequence of exceffive weaknefs and violent floodings. When the uterus was not much contracted, it was not much thicker than that I have deferibed; but in those who died a few days after delivery from obstructions of the lochia and a fever, the uterus was contracted to a fmall fize, and generally from one to two inches thick: I must, however, except one cafe of a woman, who feemed to have been feven or eight months gane with child; yet the uterus was contracted to a fmall bulk, though, when firetched, it did not exceed the eighth or tenth part of an inch in thicknefs at the fundus.——Vide Dr. Garrow's letter, coll. xiii. numb. i.

COLLECTION IV.

Of obstructions of the catamenia, the immoderate flux of the menses, and of the fluor albus.

NUMB. I. CASEI.

THE CATAMENIA OBSTRUCTED.

GENTLEWOMAN turned of twenty, who had always enjoyed good 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 obstructed, and I was called to give my advice and affiftance. 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, the breathed with difficulty, and feened a little delirious.

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It was fome time before I knew the difcharge was upon her when the fell into the water, confequently I was ignorant of the obstruction. She was immediately bled in the arm, to the quantity of twelve ounces; but finding no relief from this evacuation, the lost eight ounces more, and fainted away; the pains, however, and difficulty of breathing foon abated, and a profule fweat enfued. This was encouraged by frequent draughts of weak white-wine whey; the pulfe became more calm and regular, the delirium gradually cealed, the enjoyed a profound fleep, and next morning feemed to be in perfect health.

I was then informed of the obstruction; and, understanding she was coffive, prescribed a clyster, which had a favourable operation: that same evening I directed her fect to be bathed in warm water, and defired the might fit over the steams of it, so as that the vapour should foment her lower parts.

Next day the was gently purged with an infusion of sena and manna; but the discharge did not return, although the was perfectly easy, and free from all complaints, but that of being low-spirited from the evacuations such and undergone. I recommended warmth, gentle exercise, and food of easy digestion, in hope that, as the was of an healthy constitution, nature would reftore the regularity of the discharge. Nor was I disappointed in my expectation : at the end of four weeks, the menses appeared as usual, the was in a little time married, and has never fince had any complaint of that nature.

It would be equally tedious and unnecessary to infert a number of fuch cafes which happened in the course of my practice. I shall only observe, that gentle evacuations, exercife, and a low diet, generally remove those obstructions in the first four or five months; and, unless the fluids acquire a wrong turn by fome other kind of irruption, fuch as a difcharge of blood from the hæmurrhoidal veins, ftomach, lungs, nofe, and fometimes, though very feldom, through the hairy fcalp, cuticle of the legs, and other parts; I fay. except when diverted by fuch preternatural hæmorrhages, the menfes commonly return, or elfe the patient is afflicted with those complaints which proceed from a weak and languid circulation of the fluids. In this cafe, the method recommended above must be altered, and the obstruction removed by medicines that quickened the circulation of the blood; fuch as gentle emetics, bitter and aromatic infusions, preparations of steel, chalybeate waters, riding, and nourifhing diet. In a word, when the obstruction is owing to plethora, rigidity, or tenfion, evacuations are proper; but when it proceeds from a weak and relaxed habit of body, those things that nourish and strengthen the constitution are most effectual. Great attention is therefore required to confider these different circumstances, and experience to judge of the indication, especially as almost all the complaints of unmarried women proceed from the irregularity of this difcharge.

During my general practice in the country, when my advice was follicited by female patients who laboured under either an obstruction, immoderate discharge, or irregularity of the menses, cspecially if the disorder was of long continuance, I succeeded best by following the methods recommended by the late learned Dr. Friend. I shall therefore infert a summary of his cases, with regard to the symptoms and practice; and refer the reader to his Emmenologia for his theory of these distempers.

CASE I.

A YOUNG 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 dyfpnœa, naufea, and gripings of the ftomach : 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 continued violent for almost fix months. He first ordered the following catharic:

R Calomelan. *i. Refin. jalap. gr. v. tartar. vitriolat. gr. iv. m. f.* pulv. cap. mane in conferv. rofar.

After the operation of the above medicine, fhe was ordered the following electuary and infusion:

- R Conferv. abfynth. Roman: žij. Æthiop: min. žj: Chalyb. cum fulphur. p. p. žís. Rad. gentian, curcum. pulf. ā zij. Syr. caryoph: q. f. m. f. Elect. cap. q. n. m. ter in die, hor: med. fuperbib. cochl: v. infuf. feq.
- **R** Limat. chalyb. $\overline{z}j$. fs. infunde in cerevifiæ tenuis fb iij: per triduum; deinde adde rad. gentian. incif. \overline{z} fs. Rub. tinctor. curcum. \overline{a} zij. fumitat. Abfynth. vulgar. centaur. minor \overline{a} m. i. bac. junip. \overline{z} fs. Sem. cardamom. min. cubeb. \overline{a} zj. Mem. fiat infuf. per diem. In colaturæ quolibet hauftu cap. gt. xx. mixtur. feq.

R Sp. fal. ammon. elix. p. p. ā zij. m.

He defignedly omitted bleeding, becaufe of the weaknefs of the patient.

October 28 (three weeks afterward) in the afternoon, fhe complained lefs of her ftomach, the pulfe was ftronger, and her ftrength much increased.

October 30. The menfes came down of a laudable colour. The pain at her loins and ankles immediately vanished. The flux continued eight days, during which the was forbid the use of her medicines; which being however repeated, after another week, the menses flowed regularly again at the next period, and the patient entirely recovered her health.

CASE II.

A WOMAN about thirty years of age, had not had the menfes for the fpace of two years. Upon the detention of which the was feized with a dry cough, violent dyfpnœa, palpitation of the heart, pain in the head, a vertigo, lofs of appetite, indigettion, and inflation of the ftomach; fometimes a vomiting, decay of ftrength, night-fweats, a vicifitude of heat and cold, and a trembling; and fometimes the blood broke forth at the noftrils. The pulfc was very weak.

He fays the indications of cure feemed to be thrcc.

I. To reftore a good digeftion in the ftomach.

II. To increase the impulse of the blood.

III. To relax the uterine veffels.

To relieve the pains and decay of strength, he ordered the following cardiac:

R Sp. fal. ammon. tinct. croci. Laud. liq. ā zj. m. gt. xxx. fæpius in quovos vehiculo.

By the use of these things, the pains very much abated, and her strength was recruited.

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November 2 (two days afterward) the took the eathartic preferibed in the former cafe, which purged her fix times, and eafed the dyfpnœa.

November 3, she made use of the electuary and infusion described in the former cafe; not neglecting, 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. althaæ. Lil. alb. ā žij. fem. Lini, fenugræe. ā ziij. Flor. camæmeli. aneth. a p. i. Marjoran. m. i. Bulliant ex vin. & aq. part. 'æq. liquor fit pro fomentatione bis in die applicand.

November S. The pulfe was fomewhat ftronger ; but hardly any change in the fymptoms.

November 15. Nothing new, except that the appetite feemed to return, and the nocturnal fweats vanished.

November 2.2. A whitish humour flowed from the uterus, which ceased after five days. He remarks, that there is frequent mention among authors of pallid menfes.

December r. The fymptoms, although much milder, were not however yet removed. The following purge was preferibed: R Pil. Ruf. 3 fs. Refin. jalap. gr. iij. Ol. failafr. gt. i. Balf. Peruv.

q. f. m. f. pil. medioer.

She likewife returned to the nfe of the electuary, infufion, and mixture; which being duly taken, the pulfe grew thronger, and her ftrength was recruited:

» December 19. The menses were brought down of a pretty red colour, which continued for three days. Upon their breaking forth, the fymptoms were fo much abated, that fhe complained only of fome fmall difficulty in her breathing, and pain of her head. But repeating the infufion, her health, at the month's end, returned with the catamenia.

CASE III.

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LAUNDRY-MAID, of a fanguine habit, aged twenty-four years, caught cold, and by washing her legs in cold water in time of the menfes, they were wholly suppressed for the space of one year ; yet without any remarkable detriment to her health ; which he imagined proceeded from her hard labour and exercife. But at the year's end the was attacked with most of the symptoms as in the second case; only there arose 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 bitter chalybeate infusion, with the emollient fomentation.

October 28 (three weeks afterward) the purge was repeated, and the tumour became milder. . .

November 6. The pulfe increafed with the ftrength, and, to provoke the menfes; the faph:ena was opened.

November 11. The menses, flowed in a small quantity. Her florid colour returned again, and the tumour, with the other fymptoms, vanished.

. He gives three other cafes. The first two had their complaints from the menfes being irregular and in too finall a quantity; but the third was that of a married woman, about twenty-five years of age ; the had a decrease of the menfes for almost a year, but a total suppression for the three last pe-

riods

riods. All these he treated according to their different complaints, but brought them regular principally by the use of chalybeate medicines.

I have had many patients, who, in obstructions of the menses, if they were attacked with the discharges from other parts of the body of different kinds, either periodically or continued, have frustrated all attemps to bring back the catamenia, and prevented conception. If the discharges were from the lungs, flomach, and other viscera, they frequently proved fatal to the patients; if from the external parts, as hæmorrhages from the nose, hairy scalp, legs, or iffues in different parts, although they partly prevented the removal of the obstruction, yet they kept the patients in a tolerable flate of health. Sckenckius, in his Observationum Medicinalium, lib. iv. de Conceptione, p. 613, gives feveral cafes from different authors, of some women who conceived before they had the menses, others who bore feveral children, and never had any fuch discharge.

Mr. Pearce, in the Bath Memoirs, chap. xix. from p. 187, to p. 190, gives four cafes of girls labouring under the chlorofis, or green fickness, who, after trying many medicines in vain, were cured by drinking the Bath waters, and frequently bathing in them.

Vide Hildani, cent. v. observ. xli.

NUMB. II. CASE I.

IMMODERATE FLUX OF THE CATAMENIA.

I WAS called to a young woman about the age of eighteen, who was very much weakened by an immoderate difcharge of the menfes. She had been of an healthy conftitution, and regular in her monthly evacuation for the fpace of a whole year; but, about fix months before I faw her, fhe 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 fhe was fupported by a nourifhing diet, and in ten days was free of the dif-Yet, every three weeks after this period, fhe was attacked in the charge. fame manner, though in a lefs violent degree, and continued ill about the fame fpace of time. By this excess of evacuation, the was reduced from an healthy constitution 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 pulfe, which at any time was low, I could now bardly feel. As foon as the could fwallow, the 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 confiderably abated ; when I introduced into the vagina a bit of fponge, dipped in a folution of alum, wine, and water. Having confidered the cafe during this period, I directed her to take two spoonfuls of the following prefcription, as often as the violence of the discharge should return :

R Infusio rof. rub. 3vi. Elix. vitriol. laud. liquid. ā gut. xv. m.

I likewife directed the fponge to be continued, and frequently moistened with this decoction:

R Cort. granat. querc. flor. balaust. rof. rub. ā zij. Coquantur in aq.

fontan. ad. 3vi. In colatura folve alum. 3fs. & adde vin. rub. 3jj. Next day fhe was much eafier, the difcharge being diminifhed and of a pale colour. For drink, I preferibed chicken-broth, in which rice had been boiled; with affes-milk to be taken morning and evening : for diet, yeal, chicken, chicken, bread-pudding made with the whites of eggs; and for change of drink, barley-water in which gum-arabic was diffolved, and water-gruel 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 directed her to ufe the fame regimen, with moderate exercise; and after two or three periodical evacuations of the fame kind, fhe perfectly recovered her health and bloom.

The fame method I have fuccefsfully used with a great number of patients, both married and unmarried, only varying the medicines and the dict, according to the violence of the diseafe and conftitution of the patient; and occasionally preferibing the cort. Peruvian. pilul. gummos. Spa, Bath, and Bristol waters, the two last kinds especially to be drank at the wells.

Those who are much weakened by floodings in miscarriages, or even in delivery, had fometimes, for two or three periods after, vcry large discharges, and were relieved by the means specified above.

What follows, concerning the immoderate flux of the menses, is copied from Dr. Dale's translation of Friend.

CASEI.

A CERTAIN woman, after a lying-in, was feized with an immoderate flux of the menfes, which continued for fix years; in the laft two years the blood flowed almost daily, concreting fometimes into grumi of the bignefs of an egg. She laboured under a very great weaknefs and drought, and was alfo fometimes feverish; with a violent and continued pain in the abdomen and region of the uterus. She was feized with an anxiety at her heart, and fometimes alfo with a fyncope. The pulse fearce perceptible. The intention of the cure feemed to be, after the floppage of the flux, to reftore the firength, which was extremely much decayed. But in checking the flux, fince I thought proper to abstain from repellents, becaufe their use feemed to be forbid, by the firength being fo exceffively weak, I trusted wholly to aftringents, and them I ordered as well internally as externally.

R Cortic. granat. 3ſs. Rad. tormentill. 3j. Flor. rof. rubr. balauft. ā m. i. coq. in aq. ferrar. 15 iij. ad confumpt. 15 ij. Colatura fit pro fomentatione, bis in die parti affectæ tepide applicand.

For her common drink she used the decost. alb. in thij, whereof were boiled cinnamom zij.

Internally was applied the tinct. antiphthifica, fo much commended by Etmuller, drawn from facchar. fatur. & vitriolum martis, with fp, vini. Of the tincture, fhe took twenty drops in aq. plantag, feveral times a day. When her pain or watching was troublefome, fhe took twenty drops of laud. liq. Two days afterward (Feb. 3) the flux was flayed; and, left it might poffibly return, the fomentation was repeated daily to February 6. But the flux being thus reftrained, the pain and weaknefs feemed now to be regarded. I took, therefore, from the diaetetic medicine, broths and good nourifhing foods; from the phamaceutic, the following mixture:

B. Tinct. croc. laudan. liq. Sydenh, ā zij. camphor. in fp. vini. §fs. Diffolut. zj. m. cap. gut. xxx. Scxies in die in aqua cinnam. fort. & hord, ā p. æ — with which her ftrength was very much repaired and

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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 also a very ill fmell; and indeed, at first fight, the inner coat of the vagina feemed to be fallen down; for I the lefs fuspected it to be any remains of the placenta, because the woman denied that the had been brought to bed for fix years. But when, upon confidering the stench and the pain, I began to entertain fome fufpicion of a placenta, I thought it proper to examine into the matter a little more narrowly; and therefore enquired of the woman, whe-ther the had not mifearried fince that lying-in. She confessed the had been with child about two years fince, and that, being terribly frightened, as the returned home in the night-time through the firects, the had mifcarried by the way; but that, after the was returned home, the fent for no midwife to examine whether any thing was left in the uterus or not. From that time also the pain took its rife. The discase having been thus enquired into, the indication feemed to be this; namely, to reftore the force of the uterus and abdominal muscles, 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 drops of it feveral times in a day; by which medicine her fpirits were fo recruited, that, Feb. 10, fome part of the placenta was thrown forth, not only of a very ftrong fmell, but plainly putrid. Feb. 11, another portion was also thrown forth of the fame ill fcent. From that time there were no, marks of that membranous fubftance within the vagina : in like manner alfo was the whole pain immediately allayed.-Feb. 13, fhe had fo far recovered her ftrength, as to. be able to fit up for fome hours, after having been confined to her bed al-, most a month. She made no complaint of any thing but her weakness and loss of appetite. She took daily of her mixture, from which she found very great relief.—Feb. 17, the flux returned; which I was unwilling to check, becaufe I found it very 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 .-- Feb. 23. That I might farther provide for her flrength, the following things were pre-, fcribed :

· R Tinct. cortic. Peruv. (in vin. alb. 15 ifs.) Tinct. croci, spec. diamb. a 3 fs. m. cap. coch. vi. ter in die.

Feb. 25, her appetite was reftored. Nothing was wanting to complete her-health but firength ; which, however, upon twice repeating the decoction, was also happily renewed.

.... CASE

A WOMAN of a full habit, and who had been ufed to have too great a difcharge of the menfes, fell into an immoderate flux, from excellive exercise, fo that the menfes came down in a large quantity; at first, indeed, for fix days, and afterward for twelve.

II:

When the had laboured under this indifposition the whole fummer, her ftrength was very much caft down; the was often feized with a fyncope and spafm; her feet swelled; her countenance almost hippocratic; the blood being very thin, did not flow guttatim, but, as it were, in a continued ftream. When I first visited her, the flux had continued four days.

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The indication, therefore, of the differnper required that the flux flould he immediately stopped. That this might be effected, the fame fomentation was 'applied as is defcribed' in the first cafe.

At the hour of reft, the took the following hypnotic :

R Trochife. Gordon. 3 fs. Laudan. Lond. gr. ii. Mucilag. gum. Arab, q. f. m. pil. exiguæ. cap. iii.

By the use of these the flept very quietly .- The next day (Sept. 11) the menfes still flowing, this electuary was preferibed :

R Conferv. rof. 1ub. 3j. Bol. arm. croc. mart. aftring. a 5j. Maftich. ter. Japan. a Dij. Spec. diatr. fantal. Div. Syr. e fymphyt. q. f. m.

f. elect. cap. q. n. m. 4ta quaque hora, fuperb. coch. 5. julep. feq.

· R Aq. fperm. ranar. plantagin. cinnam. hord. a tols. byr. e coral. q. f. m. f. julep. cap. etiam. ter in die fpir. vitiol. gt. xl. in quovis

vehiculo.

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Repet. foment. & pilul. præfcript.

* Sept. 13, the flux fill continued, although only guttatim ; which yet, upon her duly taking the medicines, on Sept. 15, wholly ceafed.

Now, therefore, the whole method of cure feemed to turn upon this point, namely., to ftrengthen the veffels and prevent the rarefaction of the blood. To answer the first intention, the fomentation was every day repeated; the use of glutinants and b. Ifamics feemed fufficient for the fecond : altringents being therefore fet alide, the following method was purfned :

R Decoct. alb. 15 ij. Aq. cinnamom.' hord. Ziij. Saceh. alb. q. f. m. cap. živ. quater in die.

Balf. capiv. polychreft. ā 3 ij. cap. gt. xxv. hora decubitus in conferv. rofar. rub.

Upon the taking of these remedies, after the interval of almost three weeks, Oct. 5, the menfes returned, and continued fo for fix days. But the last preferiptions being repeated the next period, the flux was terminated the fourth day; which stopping hitherto within the fame space of time, the woman was thereupon perfectly recovered.

CASE III.

WOMAN thirty-fix years of age, after a miscarriage, had a flux of L the menfes during fourteen days, for three periods; afterwards for. almost three months they came down daily. By which flux she was fo weakened, that fhe could by no means walk, and but fcarce fland. She drew her breath with fo much difficulty, that the was in danger of being fuffocated. She was feized fometimes with a funcope, and fometimes with an hysterie fit; fo that she lay for an hour or two as if she was dead. The fame pale colour and leannefs as in confumptive perfons ; the pulfe weak and intermitting.

the indication of cure feemed to regard, first, the stoppinge of the slux, and then the restoring of the strength. The fomentation was therefore made use of which is described in the urfl case ; which indeed I generally found to be efficacious. Invaraly the took twenty drops of fpirit. fal. dulc. in decoct. tormentili. four times a day .- Four days afterward (May 25) the flux fomething abated, although it broke out again every day. The following emultion was ordered, in the room of her common drink:

R Amygd.

R Amygd. dulc. excorticat. 3i. fem. iv. frig. maj. ā zij. quibus in mortario contufis affund. aq. hord. 15 ij. Colaturæ add. fal. prunell. zij, fyr. althææ q. f. m.

May 30, the flux was flayed; however, it broke forth again the next day in the evening. But by the continual use of the remedies prefcribed, the flux was so regulated, that from June the 3d to the 9th, it was wholly flopped; afterward, at the month's end, it returned at the usual periods. The flux being therefore restrained, and the canals sufficiently closed up, the other indication was pursued after this manner:

R Cortic. Peruv. 3j. Rad. zedoar. 3 fs. Cochinell. 3j. Digerantur cum vin. alb. 16 ij. tepide per triduum. Liquoris filtrati cap. ter in die 3j. in quolibet haustu instillentur tinct. ferpent. virg. gt. 20.

At night, because she was often sleeples, and sometimes also hysteric, she took the following paregoric pills:

R Galban, col. 3j, fpec. diambr. caftor. camphor. \bar{a} Əfs. Laudan. Lond. Əi. m. f. pill. 20. cap. 2 ante decubitum fuperb. tinct. præfcript. coch. 4.

Let her dict confift of very nourifhing food,

July 19, her ftomach, which had been hitherto difordered, was much ftrengthened, and her ftrength alfo fomewhat confirmed. At the beginning of August, the woman, by following the method preferibed, was perfectly recovered.

Forestus de Mulierum Morbis, lib. xxviii, has nine observations on the too great flux of the menses.

Vide Zacut. Lusitan. tom. i. lib. iii. p. 479, and tom. ii. lib. iii. p. 487. Vide Mr. Stead's cafe in the following number.

NUMB. III.

A READER AND AND AND

OF THE FLUOR ALBUS,

A S Hoffman 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 digeition, as fea-fifh, effectially offers, the difcharge of the menfes had for a year been irregular and in fmall quantities; fhe was much afflicted with the fluor albus; her countenance began to turn pale, with great laflitude both of body and mind. He first ordered a vomit of rad. ipecacuanhæ 3fs. tartari vitrioli \Im fs. to be taken twice a week; after that to take, once a week, a dofe of opening pills, which were composed of fome bitter extracts, gums, and rhubarb; and, in the intermediate days, three or four ounces every morning of the following stomachic wine :

Rad. zedoar. calami. aromat. enulæ ā 3 fs. Herb. abfynth. rorifmar. marub. alb. menthæ, falviæ, centaur. minor. ā m. j. Baccar. junip. 3 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 ftanding, or had not degenerated into a bad habit of body. PART II.]

OBSERVATION III.

A WOMAN paft thirty, of a clean habit, for more than a year, after fhe had milcarried three times, was taken with a troublefome fluor albus; the menfes were irregular, and fometimes in a large quantity. He ordered her fome of his opening balfamie 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 firengthening herbs, with a bag of the fame herbs, applied over the region of the groins. After the intermiffion of three days, the fame things were again adminiftered for three more, and repeated in the fame manner a third time, with fresh herbs each time. Then he ordered the uterus to be fumigated with trankincenfe, maftieh, 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 farther obferves, that it is not only necellary to purge the body of vifeid ferous fluid, but alfo to ftrengthen the relaxed uterus, which is too much loaded with vifeid humours, by the ufe of the above baths, made more efficacious with nervous and aromatic herbs. And becaufe, for the most part, this diforder is the occasion of barrenness, the above method is nost probable to remove the fame.

PART III. OBSER. V.

A LOUGH TO A LOUGH

A YOUNG woman, twenty years of age, of a delieate confliction, and who indulged in a fedentary life, after a difficult labour, in which the placenta was pulled away with a great deal of force, was feized with an acute pain. The lochia afterward did not flow fo freely as they ought. Ever finee, fhe laboured under a fluor albus, which increafed fo much as to weaken her vaftly; fhe was more and more emaciated every day, and her legs began to fwell. He obferves, that he had frequently found in practice fuch violent treatment was the occasion of the like complaints.

She was preferibed fome balfamie and nitrous medicines, and ordered to drink with her victuals a decoction of maftieh, with fome einnamon and wine mixed with it. The parts were likewife fumigated with fandaric, maftieh, 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.)

A MARRIED woman, aged thirty-feven years, having for a long time laboured under the fluor albus, which at first was only white, afterward yellow, then greenish; after that duskish, towards a black, and then interspected with red, was cured by some time bathing in the Bath waters, drinking them, and taking some gentle balfamie astringents along with them; while at the same time she threw up into the uterus some of these waters, with some mel rofarum. In this section, there are three other eases of women eured by drinking these waters and bathing.

Vide Forestum de Mulierum Morbis, lib. xxviii. where he gives five eafes on the fluor albus.

Vide Boneti Sepulchrenum de Fluore Muliebri, lib. iii. fect. xxxvi.

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A CASE FROM MR. STEAD, OF GUY'S HOSPITAL.

• A GIRL of a florid complexion, and eleven years of age; about three The years and a half ago, had her menstrua come down in a small quantity, of a pro; er red colour, and which continued upon her feveral fucceeding wecks; then stopped and returned afterwards in a regular manner once a month, till within thefe three weeks laft paft ; during the greateft part of which time, fhe has had a flooding. Two or three days after the first ftop of the menfes, it was diffeovered fhe had the whites; and has been fubject thereto ever fince"; the colour is white, has of late been thin, and fo Tharp as to excoriate the parts intra labia. She was fufpected to be clapped ; but both the and her mother folemnly declared no man had ever touched her; and this was confirmed by the extreme nariowness of the mouth of the Wagina. 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 admission into the hofpital, fhe had fuch a conffant 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 polition of the parts was tolerably eafy to her. She complains of great weakness across the loins; and has an almost unextinguishable thirst, and is regular in stool. In these circumstances the physician directed as follows :

R Gum. oliban '3 fs.' Mellis q. f.' folut. adde aq. lact. alex. 3j fs. Mirabil. fyr. balf. a zij. f. hauft. omni nocte & mane fumerid. & R De-

coct. e cort. Peruv. 5ij. Elix. vitriol. gr. xx. f. haust. quotide hora xima matutina & vta vespertina capiend.

After the use of which between two and three weeks, she being rather coffive; a gentle purge was judged necessary ; as,

R Infuf. fen. 3j fs. Mann. 3vi. Aq. mirab. 3ij. f. hauft. pro re nata affumendus.

These agreed perfectly well with her, the mensium profluvium was foonflopped by the attringents; and the external foreness removed by fomenting the parts night and moraing with warm milk, and afterward gently anointing them with fome of this liniment :

. R. Ol. almygd. dulc. 3j. Sperm. ceti. 5jfs. Ceræ alb. 3fs. m. f. lini-

Little or no check was however given to the whites by two months' ufe of the internals; and thereupon they were at that time left off for thefe pills:

R Pil. ex duobus gr. xii. Calomel. ppt. gr. iv. f. pil. ij. bis in feptimana cum levi regimine capiend.

. R. Terebinth, venet. zij. Pulv. glycyrrh. q. f. f. pil. mediocr. quarum capiantur quatuor ter de die in quovis vehiculo.

The purging pills operated immediately, and, together with the others, were perfifted in about eight weeks, the flux gradually abating thereby, except for the laft three weeks, during which it feemed to be at a fland, and was fo confiderable as to induce the phyfician to endeavour to put a total flop to it; which he attempted and fucceeded in by five weeks' repetition of the olibanum draught, as directed above; and the was accordingly prefonted out well.

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It would be unneceffary to infert more cafes of this complaint ; though it may be useful to make fonie general remarks on the methods which I have found fuccefsful in practice.

I have found this difcharge beneficial to those who were obstructed or Irregular in their menfes ; but this benefit was more or lefs, according to the quantity of the evacuation : and the fluor albus is diminished by all those methods that are used in removing obstructions.

Indeed, where this complaint was owing to a weak and lax habit of body, I have found it relieved by the method of cure recommended in the immoderate flux of the catamenia ; and although I have generally fucceeded in both cafes, I have met with fome patients who, from the long continuance of the disease, could not be radically cured.

I have had feveral pacients where this discharge diminished on the ceffation of the menses; about the age of 45 or 50, and in a few years afterterward entirely stopped of itself. Some of them for ten, fifteen, or twenty years, from the tumefaction, excortation, and forenefs of the parts, could not, till after the above ceffation, converse with their husbands.

Vide part i. book i. chap. iii. fect. i!

COLLECTION V.

Of labour without any previous sensible motion of the child; and extra-uterine fætuses.

[Vide Part i. Book i. Chap. iii. Sect. ii and iii.]

N U M B. I.

LABOUR WITHOUT THE MOTION OF THE FIETUS.

WO MAN turned of thirty; after having boren three children, inclining to be corpulent; found the menfes obstructed; but, far from A afcribing this obstruction to the true cause, imagined it was the confequence of her growing fat, especially as the had never felt any thing like the motion of a child. In this way the continued till the feventh month, when I was confulted about removing the obstruction, though she would not allow me to examine in a proper männer. Finding her in good health, though fully perfuaded that her bignefs was either owing to corpulency or a dropfy, and bent upon having the obstruction removed, I preferibed fome gentle opening medicines, as fhe was naturally coffive. I was again confulted in the eighth or ninth month, when the still declared that she felt no motion ; and obstinately adhered to her former opimion. At last, however, 1 was called to relieve in a fupposed fit of the colic, and reached the place of her abode just time enough to receive the child; though the would not be perfuaded of her real fituation until the actually heard it cry, because she had never felt it stir, either before, or sin time of the labour-pains. I have delivered many women of ftrong and lively children, after they were fully prepoffeffed with a notion that they were dead, because 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 certainly known to be dead, I have delivered a num-

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a number of women with as much cafe as when the children are alive. The only obstacles 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, had the children been alive or the body not tumefied.

NUMB. II.

OF EXTRA-UTERINE FOETUSES,

IN the Philosophical Transactions, No. 323, p. 426, there are accounts of some extra-uterine foctufes, both of the human and brute species, by Mr. J. Younge. With regard to the human, he fays, extrainterine embryos have been sometimes found in women, but not publicly taken notice of till the beginning of the last century. The younger Riolan, speaking of the Fallopian tubes, fays, they appear of the fame nature and fubstance as the womb, quia carnofa eft in qua, quod eft mirabile fatum humanum concipi, fuit observatum. Then gives an account of four such strange conceptions which occurred to his knowledge.

He likewife obferves, fince that time, more ftrange 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 miftake it for another womb, and accordingly to call the account he published thereof, *Demonstration d'une double Matrice*. Mr. Oldenburgh inferted an extract of it in the Philofophical Transactions, No. 48, and the German Academy, vol. i. obf. 110, did the hke; but neither feemed to understand the mystery, till De Graaf took it right, and made use of this very observation to illustrate and confirm the hypothesis of Kirkringius. About ten years afterward, a more wonderful and incredible one happened there. It comes very well attested by Dr. Bayle, who first published a history of it in the Journal des Scavans, and, after, Mr. Oldenburgh put an extract of it into the Phil. Transf. No. 139, p. 979. 'This cafe is taken from the above, and not from Mr. Younge.

Margaret Matthew, wife of John Puget, fhearman, at or near Touloufe, being with child, 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 laft fix years, 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 fallened to it; the head downward, the buttocks hanging toward the left fide. All the back part of the child was covered with the omentum, which was about two fingers thick, and fluck hard to divers parts of the body, fo as not to be feparated without a knife, which being done, very little blood iffued. This infant weighed eight pounds avoirdupoize ; the skull was broke into feveral pieces; the brain of the colour and confistence of ointment of roles. The flefh red where the omentum fluck; other parts whitifh, yellowifh, and fomewhat livid, except the tongue, which had the natural foftnefs and colour. All the inward parts were difeoloured with a blackithnefs, except the heart, which was red, and without any iffuing blood./ The forehead, ears, eyes, and nofe, were covered with a callous fubstance, as thick as the breadth of a finger. The gums being cut, the tecth appeared in the adultnels

nefs of those in grown perfons. The body had no bad fmell, though kept three days out of the mother's belly. The length of the body, from the buttoeks to the top of the head, about eleven inches. The mother died about the 64th year of her age.

Mr. Younge goes on, and fays, that before either of these appeared in France, there happened one in Holland to H. Rhoonhuys. 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 thut, without flowings, or any fore-runners of the delivery. He, finding the common passage to elosely fhut up, and a very painful tumour above the navel, proposed the Cæfarean fection. The woman having feen that operation made at Paris, earneftly defired him to perform it on her; but he, to observe some unnecessary 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 first faw her. Opening the belly, he found a child among the entrails, and the placenta fastened 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 belly. T. Bartholinus, the year after Rhoonhnys's exploration, met with fuch an extraneous foctus wrapped up in a mola, which he found in the belly of a woman, and conjectures, non possim aliud divinare, gram quod fatus bic primo in tubis uteri conceptus. He imparted this first to G. Horstins, Ep. 58, vol. iv. afterwards in the 92d observation of his fixth century.

In the city of Aurange, D. Baldwin and Mr. Delafort, found *puellum* egregium optime formatam extra uterum. The report of this difference is made public by Sachs, with remarks, Mifeell. Cur. vol. i. obferv. 110, which he concludes with one more flupendous than all I have eited, 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 matrimony, conceived again; and, at the full time, was delivered through an abfects of the left hypochondria: ex qua infans boni babitus extractus, qui baptizatus fuit, & annum unum cum dimidio fupervixit; mater vero, fummis in doloribus tertio die obiit. 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, found a very unufual and monftrous lump of fat, proceeding like a wen from the middle of the omentum; and when opened, a lamb was found in the fame. He likewife relates, that, thirty years fince, he had been fhewn the like in a bitch. He was alfo told by a gentleman-hunter, that he lately found in the paunch of a hare, two fullgrown young ones amongft the bowels, but almoft rotten, and three immature embryos in the uterus.

There is also, in the Philosophical Transactions, one case that seems to be published by two different persons, of near the same date, at Paris; the first is by Mr. Saviard, No. 222, p. 314; the second is by Dr. Ferne, No. 231, p. 121; which last I have copied as being the fullest:

A goldfmith's wife, near nine months gone with child, was received into the Hotel Dieu. She was about thirty-four years of age, of a tender conflictution; had had four children before, all which had done very well; but with the prefent fhe had been very ill, and endured a great deal of mifery. The midwife who examined her body, found a confiderable rifing on the right file near the navel, which very much refembled a child's

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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 diffended 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 reason the inner orifice was drawn so high under the os pubis, she could not without fome difficulty touch it with the extremity of her finger. Upon trying fome time after, the could not differn any thing like the fœtus she had felt before. The patient told her, that for the first fix weeks after her being with child, she had great and continual pains, which shot toward the navel, and terminated there; and thefe lasted till the third month; that from thence to the fifth she had frequent convulsions, apoplectic fits, and terrible fyncopes, fo that those about her despaired of her life; that from the fixth to the eighth month, the had enjoyed much better health, which in fome measure had ftrengthened her and her infant; that the pains five had endured fince that time feemed to be fo many alternate throws, probably proceeding from the repeated ftrokes of the child's head in that place, where the teguments were fo thin, by reafon of their great extension, that the hardness of the cranium could plainly be differned through them. In this condition was this miferable woman when the was received into that hospital; till, her affliction increasing, she could neither lie on her fides or back, being forced to fit on a chair, or kneel in her bed, with her head refting on her breaft. These strange and unaccountable symptoms obliged the midwife to confult with the phyfician and mafter-furgeon of the house, who thought 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 the. patient, and the delicacy of her conflitution. However, after this time the child made no efforts, and the tumour fubfided, there remaining only an hydropic indifposition, 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 diffended, was very much emaciated before her death. After her decease, her body was opened by M. Jovey; and upon the first incifion through the teguments, there came away two or three pints, Paris measure, 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 foctus, contained in a cover or bag, which at once ferved it both for a womb and membranes. 'M.' Jovey took the child and umbilical ftring out of the mother's belly, tracing the ftring to the placenta, into which it was inferted. This last appeared like a great round lump of flesh, and adhered to firmly to the melentery 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 leffer, 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 greatest part of it adhered to the bag or cafe which contained the child, This cafe or bag was corrupted and mortified in part, which probably might proceed from the frequent ftrokes of the infant's head. It fprung from the edges of the tube or fimbria of the right ovary, 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 small partion between the womb and the rectum, This bag, by compressing the

neighbouring parts; had gained a confiderable space in the above-mentioned

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cavity, in fuch a manner that a great part of the child's body 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 diffention 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 distribution of the fpermatic veffels, which were larger than ufual, and paffed from the extremity of the tube to the larger lump. The womb was entire, and in its natural ftate, except that it was fomething larger than ordinary, being about 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 observed this, thought proper to defift till several 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 state as in women who are not with child, except the fmall dilatation of its bulk, which might arife from a compression of the vessels, and interception of the refluent blood, by the unnatural polition of the foctus. In thrufting a long and. flender probe through the right horn of the womb, it eafily paffed into the tube on the fame fide for three fingers breadth in length, but it could not be thrust farther, by reason of the constriction of the tube in that part. The capacity of the tube could not be diffinguished; the parietes of it, by their coalition with the chorion and amnios of the child, forming the bag in which the child was inclosed, 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 those parts after the separation.

A fætus in the right horn of the uterus. By Dr. Ferne, No. 251, p. 125.

IN diffecting the body of a woman, who fuppofed herfelf to be three months 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 Phil. Trans. No. 378, p. 387, an extra-uterine fætus that had continued five years and an half in the body. By Robert Houlston, M.D.

Was fent for to a woman near Newport-Market, who had been married eighteen years to a native of the Eaft-Indies, by whom fhe had eight children, befides two mifcarriages. At my vifiting her, fhe was with child in a fecond marriage, and her hufband a vigorous young man. She was near her full time, and had felt pain for feveral days, which, returning, by intervals, fhe 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 1 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 firaitly as to refufe the admiffion even of a fmall probe or knitting-needle. I declared upon this that her delivery was impoffible, becaufe the child was not 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.

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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 languith 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 affiftance. At that time, in all probability, it would have been fuccefsful; for the was a flender well-thaped 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 imposthumation in her belly. I ordered her fome cordial stomachies, eastia, and such gentle lenitives; and they met with such sets beyond my expectation; fo that by aid of a regular diet, and the watchful exactness of a very tender mother (a nurse of about thirty years' experience about this city) I restored her to such strength, that she went cheerfully abroad, and applied herfelf to business.

About fifteen months after the time when I vifited her first, her mother came from her to intreat my affistance: the complained of great pain in the lower part of her abdomen; and I found a tumour of a conic form, projecting about an inch beneath the umbilicus; its inflammation, with tention and a feverishness attending it, to plainly indicated fuppuratives, that I was not furprifed to hear in a few days that it had broke as I wished. I proposed to lay it open, both to give a free emission and prevent its becoming fistulous; but the was apprehensive that I would, as the ealled it, cut open her belly: fo that not being able to prevail with her, I ordered her a pot of unguent, and fome plasters. The ulcer foon grew fistulous, and fo continued till the died, which was in the 41st 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 foctus, with fome fmall bones of its fingers. But the reft of the skeleton remaining entire, I took it out of her body, together with the vagina, uterus, rectum, &c. wherein it had involved itself.

A fatus formed in the ovarium. By M. de S. Maurice. Phil. Trans. No. 150, p. 285.

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A WOMAN, after being fafely delivered of eight children, and continuing five years afterward without having any more, about three months before her death fufpected herfelf to be fallen into that condition again; becaufe fhe never before failed of being very regular, and had not found herfelf fo for more than a month. After this, fhe had a little flow, which fearee left off wholly during the two laft months of her life, and which fhe paffed, neverthelefs, without much trouble; fo that fhe thought herfelf to be fecure as to the point of her being with child. But, after fhe was up one morning, in very good health, fhe fell into faintings, had violent pain, like the colic, in the region of the right groin, which terminated at the reins, a little after eight in the evening. She felt all the præludia of an imminent travail; fhe ealled her furgeon, and died in his arms, faying, "I am delivering, I am delivering;" there appearing outwardly neither diftillation nor flooding, nor any mark of this diforder.

On opening the integuments of the belly, all the entrails of the epigastric region were seen floating in blood, which was taken out with a spoon, to the quantity of two pounds. To avoid changing the situation of the parts, a large

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a large quantity, which was coagulated, ftill remained in the right flank ; and trying to take this out with the hand, a little foctus was found in the first clots, about the bigness of a man's thumb, and a third lefs in length, all very diffinctly formed, and in which was manifeftly difcovered the fex of a boy, but naked and without covering. The right cornu of the womb was found near this place; the testicle, or ovary, was toren longwife, and through the middle on the fide, that it did not touch the tuba. This This tefficle was near the bignefs of an hen's egg, and feemed to be the place where the fœtus was contained, and which had burft through the fame, for the left tefficle 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 state, and was as Dr. Harvey had defcribed it in the first month of pregnancy; but when it was opened, he found not the least fign of conception; the veffels of the interior membrane feemed full of blood and varicous, which might be the caufe of that little flow of blood, as before mentioned.

He remarks, that although authors fpeak of fœtufes 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 Phil. Tranf. No. 367, p. 126, a fætus that continued 46 years in the mother's body. Communicated by Dr. Stegertahl.

NNA MULLEEN, of the village of Leinzelle, near Gemund, I in Suzbia, of a dry and lean conftitution, but otherwife healthy and robuft, died at the age of ninety-four, after fhe had lived a widow forty years. Forty-fix years before her death, fhe 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 fwelled, and that now and then, upon any exercise, she felt a little pain in the lower part of it. She was after this twice brought to bed ; the first time of a fon, who is now a huntiman at Bijchoffihein; and afterward of a daughter, who is inarried to a foldier. But notwithstanding this, she was firmly perfuaded that the was not yet delivered of what the first went with, and defired Dr. Wohnlixe, the phyfician of Gemund, and one Knaussen, 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, but had not the precaution to observe 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 Transactions; and, according to the defeription and appearance, feem to have been fo strongly pressed, that the parts were confolidated to one another, and the integuments in a manner offified. The nofe was turned up and flattened, and the eye closed ; but the ear, the arms, of which the right is the largest, and the two joints of the thumb, &c. are plainly diffinguithable.

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[PART II:

An account of a child taken out of the abdomen, after having lain there upwards of fixteen years, during which time the woman had four childrens all born alive. By Starkey Middleton, M. D.

GENTLEMEN,

"HE records of your fociety furnish us with feveral cafes of extrauterine conceptions, one of which I communicated to you, March 28, 1745. Neverthelefs, I could not help flattering myfelf, that this cafe alfo might be worthy your notice .- In April, 1731, Mrs. Ball, without Bishopsgate, perceived, by the usual fymptoms, that she was pregnant; and, in October following, being then in the fixth month of her pregnancy, the had a child died in her lap of convultions ; the furprife of which caufed a great 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 more; but from this time the had conftant pains attending her, which appeared like labour-pains. Her midwife for feveral days expected a mifcarfiage ; but finding herfelf difappointed, advifed her to apply to Dr. Bamber, whofe known abilities, in the feveral branches of phylic, joined to his great experience and judgment in midwifery, made him unquestionably the most proper perfon to be confulted, as the case appeared fo very uncommon in its circumstances; at the fame time that his great humanity. always gave the most free access to the poor in their distresses. The doctor, after a proper examination, finding fufficient indications of a dead child, ordered her fome forcing medicines; upon taking which about three times, the difcharged fomething, which the women fuppofed to be part of the after-birth, accompanied with a 'fmall' quantity of water. In confequence of this discharge, her pains ceased, but without any diminution of her belly. After fome time, the again applied herfelf to the doctor, who thought it most adviseable to discontinue her medicines, and leave the affair entirely to nature. In this state she continued for about twenty months, viz. to July 1733, which was two years and two months from her first reckoning; fhe then again applied to Dr. Bamber, acquainting him, that fhe was not yet delivered of the child she fo long fince came to confult him about, and that her pains were lately returned, and daily increased without intermission. Upon the doctor'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 use of which her pains became more regular; and the next day the doctor made her a visit, and was informed she had discharged 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 affistance.

It was about this time Dr. Bamber first acquainted me with the cafe, defiring me to attend her as often as occasion might require; and that I would acquaint him if any thing like labour or other remarkable alteration should offer. Accordingly, I made her a visit, and after a proper examination, was convinced of the certainty of the doctor's affertion. Her pains now began to abate, and she grew tolerably easy; but about the latter end of January 1733-4, she conceived again with-child, and was delivered the 28th of October following by Dr. Bamber, who fent for me to attend him in her labour: the doctor foon delivered her of a fineboy, 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

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the cavity of the abdomen, and beyond the reach of human art to relieve her. This fact every one then prefent was made fensible of.

October 22, 1735, I was fent for to her in her labour, but before my arrival the was delivered of a boy; however, I brought away the placenta. which gave me an opportunity of examining for the other child, and found it in the fame fituation as formerly.

October 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 ftate of the abdomen; the child appeared just as before, without any alteration.

June 17, 1741, I was again fent for in her labour, but found her just delivered of a girl; and; upon examining the parts, every thing appeared as before:

October 14, 1747; being greatly emaciated by conftant pains; &c. fhe was admitted a patient in Guy's Hofpital, where she died the 7th of November following, after having laboured under the diffress and uneafiness of carrying a dead child within her; in a manner loofe in the abdomen; upward of fixteen years. The day after her death, I opened her in the prefence of doctors Nefbit, Nichols, and Laurence, when the uterus, and the feveral other contents of the abdomen, appeared nearly in their natural flate; but on the right fide; within the os ilium, a child prefented itfelf, which was attached to the ilium and neighbouring membranes by a portion of the peritonedm, in which the fimbria and part of the fight Fallopian tube feemed to lofe themfelves. The child feemed no-wife putrid ; but the integuments were become to callous, and changed from their natural flate, that the whole feemed to refemble a cartilaginous mais, without form or diffinetion ; the legs; indeed, were diftinguishable, though they were much wasted and difforted: 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 may ferve to convince those who are of opinion that boys 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 Academy of Sciences at Paris, M. 1702, p. 234, &c. we read of a foetus extracted by the anus; and in H. 1722, p. 20, of one found in the Fallopian tube. The German Ephemerides, an. prim. I. iii. obfery. cx. mentions a foetus 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 fixteen years.

In the Med. Effavs 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. Gabriel King, phyfician at Armagh, Ireland.

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COLLECTION VI.

Of Super-fatation, or what was formerly supposed to be for

[Vide Part i. Book i. Chap. iii. Sect. vi.]

CASE I.

WAS called to a woman in the country, who was feized with a violent flooding in the fourth month of her pregnancy ; and before L I reached her houfe, which was about four miles diftant from the place of my habitation, the had mifcarried of a small foctus and the feeundines. The difcharge was abated ; yet, as fhe 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 of the womb feemed to be about half an inch long ; and above, that I felt a pretty large flretching of the uterus on the fides and anterior part. As fhe had refled 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 fome flight pains that ftill remained were removed, and the fell afleep. In two days the was perfectly eafy, and in about three months after this period her husband brought her to my houfe, where the told me the had been irregular in the difcharge of the menfes fince her.miscarriage, and was grown very big ; a circumftance she imputed to a dropfy, or rather a tympany; for the found frequent motions from wind. By examining the abdomen and vagina, 1 plainly perceived. fhe was in the eighth month of pregnancy, and affured her the wind fhe felt. was no other than the motion of a child; obferving that the 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, prognostic was verified in about nine weeks, when she was delivered of a full-grown female child.

CASE II.

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A BOUT three years after this transaction, my affiftance was demanded to a woman, who, in the fixth month of her pregnancy, was alfotaken with a flooding, though in a fmall quantity, which continued tendays before I was called; fome water was likewife difcharged without pain, and yielded a mortified fmell. I underflood, that the day before I was confulted, fhe had felt fome flight pains, and a few fmall bones had been difcharged from the vagina; and thefe, upon examination, proved to be the bones of the legs and arms belonging to a foctus. I could fearee introduce the tip of my finger into the os internum, though the neek feemed larger than ufual, and above that the uterus was pretty large. The cloths, that were molftened with a ferous difeharge, exhibited a brownith colour, and had a putrid fmell. The woman was much alarmed, her fpirits were funk. the had for fome time enjoyed little or no reft, and was coftive. I ordered an aperient clyfter to be immediately injected, after the operation of which, I directed her to take ten grains of the pil. Matth. and next day four fpoonfuls of the following mixture, every fix hours:

R Aq. Puleg. 3vj. Bryon. comp. 3j. Tinct. caftor. gutt. c. Spt. c. c. gutt. lx. Syr. caryoph. 3j. M.

I likewife directed the clyfter to be repeated every afternoon, and the prils every night, if there should be occasion, and found her perfectly easy and free from all complaints, and was told the had the preceding night difcharged the reft of the bones and fecundines of a child. I infifted upon her keeping her chamber and bed for fome days, and preferibed a cordial mixture, with some dofes of sperma-ceti; at the request of her female ac-

quaintance.

About two months after this diforder, I received another call, when the told me her ftomach was ftuffed up with wind, that the was taken with a violent colic, and had been three days without passage in her belly. .When I felt the abdomen, as the was a thin woman, I could plainly perceive a Aretching of the uterus, extending above the navel; and upon examining by the touch, in the vagina, felt the os internum largely opened, the membranes with the waters pulled down, and through these the arms; shoulder, and navel-ftring of the foctus. 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, the was, to her great joy, delivered of a live male child, which, though fmall, was reared by Jucking another woman at first, and afterwards the mother, who had formerly loft two children.

C. A S E. III.

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Communicated by Mr. Campbell, in a letter, dated from Poole, April 24, 1750.

SIR,

THE following being a very uncommon cale, I am willing to commuinicate the fame, to have your fentiments on the fubject :

A woman in this neighbourhood was delivered of her first child, and the -delivery followed by fevere after-pains ; and, five days after, the mifcarried of a feetus, which could be no more than four or five months in growth. There was no fign of putrifaction about it, though it was still-born ; there was no hair, nor other fign of its being longer conceived. How to reconcile this with the prefent doctrine of conception, will, I believe, be found difficult. I should be glad, if at the fame time you would be pleafed to acquaint me how to diffinguish betwixt an obstruction and the total difappearance of the menses in women.

My anfwer was to this effect.

61 B.,

XYHAT you have writ me feems to favour the notion of fuper-feetation more than any thing I have met with in practice. But there are inftances of extra-uterine fœtufes which have lain whole years in the abdomen without being putrified. However, we fee, from time to time, things happen that we cannot account for, and thefe deftroy all our fine theories.

The menses commonly disappear in women between the age of 45 and 50: fometimes they leave them fooner, if the woman chances to grow fat, if the cat imenia appeared carly in life, or if the had boren many children : but whether the diforder proceeds from obstructions, or the total difappearance of the menfes, the intention of cure in both cafes is, to repeat yenxfection and gentle purgatives.

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Schenekius, lib. iv. De Super-fætatione, p. 617, has collected feveral obfervations of super-fætations.

Others of late, to prove the poffibility of fuch things, have advanced an attefted cafe from America, 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 woman 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 confelled, that immediately after her hufband had left 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, p. 30, &c. we read of the delivery of a boy, in whofe placenta was found a fort of bladder, which contained a female foctus, reekoned to be four or five months: and H. 1729, p. 12, of two children 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 Amflerdam, who was delivered of a firong live ehild, and in fix hours after, of a finall embryo, the funis of which was full of hydatides, and the placenta as large and thick as in one of three months. He exhibits a figure of this phænomenon.

Mauriceau, in the midfl 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 twins, one of which was alive, and of the ordinary fize; the other was dead, and feemed to be only of three or four months. He accounts for this circumflance, by fuppoling the death of the child at the term of four months, but that its waters remained uncorrupted, from the air not being admitted, &e.

COLLECTION VII.

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Of women who exceed the common term of gestation.

[Vide Part i. Book i. Chap. iii. Sect. vii.]

CASE I.

WAS befpoke to lay a young woman of her first child. She was taller than the middle fize, and had been healthy from her infancy-She was married about a week after the menstrual discharge, which not returning at the flated time, fie was feized with the ufual complaints of fickness and retching, which her mother supposed to be certain figns of pregnancy; and though the reekoned only to the beginning of June, the was not delivered till the end of August. Before marriage the menses had flowed regularly every four week's; and though fhc, perhaps, did not conceive immediately after wedlock, it was reafonable to fuppofe the actually exceeded the usual term of gestation, by four or five weeks at least. Her labour was very tedious, though the pelvis was of a large fize ; but the child was very lufty, and the head fqueezed into a longitudinal form. Two years after, I delivered her of a feeond child, which was also very large; yet the labour was fhort, and happened according to the common time of reekoning; nor was the head of this last squeezed into a longish form like that of the first, which was indeed the largest child I ever brought into the world. CASE

CASE II.

I WAS called by a midwife to a woman in child-bed, and found the breech of the focus prefenting at the brim of the pelvis, where it had fluck for fome time without advancing, although the mother had been long in labour, and the membranes had been broken eighteen hours before I came. I with great difficulty pufhed up the breech, and brought down the legs; and after much fatigue delivered her of a live child. According to this woman's reckoning, fhe had exceeded the ufual time of geftation by eight weeks; for fhe affirmed, and her mother confirmed the affertion, that fhe had but one difeharge of the menfes after fhe was married, and in the middle of the month was feized with the common fymptoms of pregnancy, from which they concluded 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 circumftance that rarely happens. Indeed, I have known many women exceed that period by their own reckoning; but I have generally fuppofed they committed fome error in keeping the account.

Vide 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 last difeharge of the menfes.

COLLECTION VIII.

Of what is commonly called the falfe conception, molas, and hydatides.

> NUMB. I. CASE I. OFFALSE CONCEPTION.

EING ealled to a gentlewoman, I was told by the women who were about her, that fhe had mifearried of a falfe eoneeption in the third month; and that the fame misfortune had happened to her feveral times before this accident. The midwife pretended that thefe falfe eoneeptions proceeded from a foulnefs of the uterus, and had preferibed, from time to time, decoctions of fabine, artemifia, and other herbs, to be taken by the mouth, and injected by the vagina.

This being the first ease of the kind which I had seen, I carefully examined the substance, which was bigger than a goose-egg, and found it no other than a coagulum of blood, of which she had lost a large quantity, formed round the secundines by the pressure of the vagina, where it had lain for many days. I plainly discovered the cavity which had contained the embryo, and assured them it was a real conception, though the embryo had been forced through the membranes and lost.

Since that time I have been concerned in a great number of cafes of the fame kind: fometimes I have found the embryo partly diffolved, and fometimes perfect, commonly of the fize and figure of a small horfe-bean, when the mifcarriage happened in the ninth or tenth week of pregnancy; but when

when no embryo was found, it was always termed a falfe conception by the good women.

When the membranes broke before the fecundines were difcharged, I have known the embryo pafs off unobferved with the coagula of blood, and be loft among the clots; and at other times, when the membranes were not broke, I have found it diffolved 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 water, as clear as crystal. Though it was not bigger than a small bean, 1 could diftinguish the legs and arms pretty well formed; but as I had not leifure to immerfe it in spirits 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 amnios, in order to evacuate the corrupted fluid, and fupply its place with spirits for the prefervation of the embryo, I perceived the legs, arms, and greatest part of the body, were quite diffolved. the cale to the the second

C A S E II. **I** ATTENDED a patient who mifcarried in the fifth month, the feetus and membranes having been difcharged together. About five days after the mifcarriage, I was called to examine a fubitance, which had been paffed with a great deal of pain, and which the midwife termed a real falle conception. This was about the fize of an hen-egg, furrounded with what appeared to be a ftrong thick membrane, which, when I opened, I perceived the whole was no other than a coagulum of blood which had been ftrongly prefied in the uterus or vagina, fo that the ferous part having been squeezed out, the furface, in confequence of the pressure; had assumed the form and appearance of a membrane. Thave feen a great number of fuchfubstances, which have been always mistaken for falfe conceptions by midwives, nurfes, and even gentlemen of the profession. Indeed I myfelf had at first a confused notion of these things, until I understood that coagula of blood would affume fuch appearance from preffure in any cavity. Thefe I have feen difcharged both before and after mifcarriages and deliveries, at all times of pregnancy,- though generally in the first five months, and more frequently in the third than in a more advanced flate of uterine gestation.

NUMB. II. CASE Ι. OF MOLAS.

A WIDOW-GENTLEWOMAN, about the age of fifty, was fuddenly feized with violent pains like those of labour, and a discharge of. blood from the uterns. Two years had elapfed fince her menfes difappeared ; but, having received a fall down ftairs, 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. These complaints continued fix months before she was taken with the violent pains, in confequence of which I was called to her affiftance. I felt the os internum a little open, and fomething prefenting like the edge of a placenta, or a round stefhy fubstance. 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 occasionally as the pains returned. Laxa-tive and emollient clysters were frequently injected by way of fomentation

as well as to evacuate the inteffines. The os internum was gradually dilated, the difcharge and pains fuddealy returned, a large oblong flefh-like fubflance was thruft down into the vagina, and by gently opening, the os externum, at length extracted, when the pains and flooding abated. This fubflance being examined, appeared to be nothing elfe than the fibrous part of the blood, ftrongly fqueezed together, nearly as large as the head of a child in the fixth or feventh month. A bloody ferum continued to drain from the parts for feveral days, when the red colour vanifhed, and it began to vield a ftrong feetid fmell: She was feized with violent pungent pains in the hypogaftric region, the lips of the os internum fwelled, and became unequally indurated, the pains and difeharge increafed, with all the direful fymptoms of a confirmed cancer in utero. Yet no other flefhlike fubflance was evacuated, though every now and then fhe was attacked with violent floodings; at length fhe became heftic, and died in about three months.—Vide col. ix. No, ii. cafe iii.

CASE II.

Mr. Watkins, Surgeon, at Coleshill, in Warwick Shire, writes to this effect.

G IVE me leave to trouble you with one cafe, as a confirmation of your doctrine, that the mola is for the most part an excression or coagulated blood, and not a falle production from generation.

I was called to a married woman full fixty years of age, who flooded profutely, in confequence of a falling down of the womb, as I was informed by the midwives, for fhe was attended by two who had attempted the reduction. Finding an imperforated fubftance prefenting, I concluded it was not the uterus: then placing her in a proper pofture, I introduced my hand, and delivered her of a mufcular or rather tendinous-like fubftance, as big as a large calf's heart, exactly refembling the auricles, and conical point, which had prefented at different times, for feven years laft paft, with vaft flooding and excruciating pains. The lofs of blood was now exceflive, but by the help of incraffating medicines and acids, fhe is happily recovered and hearty.

Vide Boneti Sepulchret, lib. iii. fect. 37. Ruyfch, tom. i. obferv. 28 and 29. Forestus de Morbis Mulierum, lib. xxviii. Hildanus, Centur. 2. obfervat. 24.

NUMB. III. CASEI.

HYDATIDES DISCHARGED FROM THE UTERUS.

I N the year 1752, one of my pupils attended a poor woman, who, in the fourth month of her pregnancy, was taken with a violent flooding, which was reftrained by opiates; but in three days returned with greater violence, accompanied with firong pains and frequent firaining like a tenefinus. 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 fmallnefs of hemp-feed. The patient was reduced to fuch a degree, that we thought fhe could not poffibly live; neverthelefs, fhe gradually recoveted, contrary to our expectation.

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CASE II.

Communicated by Mr. Crawford, of London.

WAS called to a woman about the age of twenty-feven, who thought herfelf feven months gone with child. When I entered the room, she 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 I 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 almost entirely free from pain. When I examined the matrix, I found the os tinez open to fearce the breadth of half-a-crown, but nothing like the appearance of a child. Though her flooding was now but fmall, in confideration of her having enjoyed no reft for three nights before, she was, by my direction, put to bed, and took a composing draught, which made her fleep about two hours; but fhe waked with feemingly ftrong pains. I examined her again, and introducing my fore and middle fingers into the vagina, felt fomething which I millook 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 infinite number of fmall flender 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, the evacuated as many as filled a twoquart bason; thus delivered, she was freed from her pains, her flooding ceafed, and the womb contracted to the fize of my fift. Neverthelefs, she was strongly possessed with the notion that there was a child remaining; and earneftly begged that I would bring it into the world. I affured her that the was already delivered of what the had miftaken for a child : and having preferibed what was neeeffary, left her very well fatisfied and compofed. Next day I found her eafy; file continued to do very well, and, at the writing of this cafe, was in the fifth or fixth month of pregnancy.

N. B. She had been delivered of two children before the was troubled with the hydatides.

Mr. La Motte, in his xvith Obfervation, gives an account of a woman that imagined herfelf gone with child above five months, who was delivered of a mole, or fomething of that nature, as big as two fifts, composed of an infinite number of veficles, tied to one another by membranes, and which held together like a fwarm of frogs, after being excessively weakened with a continual lofs of blood for eighteen days, which was flight at first, but became very violent before delivery; and stopped immediately after.

In Obfervat, xvii, he gives an account of a woman that imagined herfelf gone feven or eight months, who passed 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 increased to a great height, to the eighth or ninth month; and, although the woman had her menses, she imagined she was so long gone with child, having missed one period at the beginning of her reckoning; but instead of being delivered of a child, she, for several days together, passed an incredible quantity of wind, making the same noise as when it vents itself at the anus, but involuntarily. Vide Ruysch, tor. i. observat. 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

them, contained in different parts, as the uterns and ovaria, &c. There are alfo accounts of the fame kind, by Dr. Edward Tylon, No. 2, p. 11, and by Dr. Sampfon, No. 2, p. 49.

COLLECTION IX.

Of polypus, fcirrhofity, and cancer, in the uterus and vagina.

[Vide Parti. Book i. Chap. iii. Sect. ix.]

NUMB. I. CASEI.

OF THE POLYPUS.

WOMAN turned of thirty, who never had bore children; confulted me about a very extraordinary diftemper. One of the febaceous glands, on the right fide of the os externum, and clofe to the carunculæ myrtiformes, had infenfibly increafed and fwelled to fuch a degree, that I found it as large as a middling pear, hanging 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 meuftrual evacuation. A ligature being applied to the neck of the tumour, clofe to its origin, it was amputated, and the wound cured without any difficulty.

 Λ MIDWIFE being called to a woman in labour, about the age of twenty-fix, felt not only the child's head pushing down through the os internum into the vagina, but, at the fame time, another large, firm, round substance at the side of the head, protruding in the same manner. A male practitioner being confulted, could not difcover the nature of this tumour, and left the patient, telling her it was furgeon's work. Neverthelefs, the head was with great difficulty forced beyond the fwelling, and the child delivered, though the midwife was unjuftly accufed by the neighbours of having pulled down the uterus. Some months after her delivery, the tumour inflamed, and matter being formed below its furface, was difcharged to fuch a quantity as emaciated and enfeebled the patient. A genileman being called to her afliftance, defired my advice; but when 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 internum, to the fide of which the 'tumour adhered by a very fliort neck, about an inch thick, and of a livid colour towards the lower 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. Before this feparation the patient had Cc 11 béen been tormented with violent pains from the pulling down of the uterus and the ftraining of the ligaments, and at the time of the operation was very much exhausted; fo that she died in two or three days after the excision.

The body being opened, the under fide of the uterus was found mortified, and the right fide adhering to the neighbouring parts, by which the ovarium and Fallopian tube of that fide were covered and concealed. The tumour being cut open, appeared to be a folid, firm, glandular fubftance.

CASE III.

Communicated in a letter from Mr. Holyoake.

THE child prefented with the back, and was extracted footling; and after delivery, the placenta came away with little or no affiftance; but the uterus ftill continuing remarkably 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 fubftance adhering to the left fide of the fundus, with fmall excreteences hanging from it like teats. At fi.ft he was afraid of extracting it, left it fhould be followed by a mortal hæmorrhage; but, confidering that a dangerous flooding might enfue from the uterus being thus kept diftended, he refolved to feparate this fubftance; which did not come away without confiderable force, and weighed near two pounds, being of the texture of a polypus.

As he defired my opinion of this affair, I obferved in my answer, that glandular excrefeences, or polypufes, are commonly attached by veffels, and could not have been feparated with the fingers; the placenta, when left and long retained in the uterus, is compressed into a schirrhous hardness; that the nature of molas is not yet ascertained; and, though sometimes unaccountable appearances occur, this substance feems to have been a large coagulum, which had acquired such firmness by pressure, in a flooding which might have happened before he arrived.

I myfelf had extracted as large coagula after delivery, though of a loofer texture; but those formed in repeated floodings, before delivery, are more folid, and affume the appearance of a fleshy substance.

CASE IV.

WAS called to a woman by Mr. Pinkstane, who informed me that she had been much weakcued with large discharges from the uterus, at first fanguineous, and afterwards of a brownish colour and foctid smell : on examining the vagina, I felt the uterus largely ftretened, 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 much open as to receive the end of my finger; and I found a fmall fubftance, like a polypus, lying loofe within it. Two 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 fubftance adhering to the uterus by a finall neek. This was really the eafe ; but when he prefied on the abdomen to keep down the uterus, I felt a contraction higher, as if the neek of the polypus adhered to another round hard fubflance, much 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 found it more fenfible, adhering to a larger substance ; yet at no time did I perceive

I perceive any discharge on my finger. She was aged thirty eight years, had been married about a year; and although regular in the menthrual difcharge, her bignefs gave fome fuspicion that fhe might be with child. She had been taken with frequent fickneffes and retchings; which, about fix weeks before I was called, had increased, and she 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 thing necessary was ordered as to diet and medicine, to support and keep up her ftrength ; but the discharge was so great, that the at last funk under it and died. When the abdomen was opened, a large quantity of brownish fætid fluid was discharged, and a tumour appeared at the lower part, larger than a child's head, which we took first for the uterus; and from which we, with great difficulty, feparated the peritonzum, omentum, and intestines; all these adhering so firmly to one another that we could scarce diffinguish and separate them without tearing the parts. Finding we could not be informed properly, 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 neighbouring parts adhered all round fo ftrongly that there was no fuch thing to be difcovered. Having dilated the fore part of the vagina, we discovered the little polypus lying in it, about the bigness 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 stretched by the polypus which it contained. Tracing farther, we found the cavity of the fundus uteri, to our great furprise, no larger than in an unimpregnated flate, and the neck of the polypus adhering, as we thought, to a round hard tumour that was contained in the substance of the uterus, on the left fide of the neck. This being diffected out, feemed to be one of the glands, increased to the fize of a small 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 peritonzum on the left fide, and when cut open, was of a whitish folid substance. The polypus, when cut, was fofter, and in colour and confiftence like a kidney. We then examined the large tumour, at first taken for the uterus, which was of a livid colour, and full of the fame fætid brownish fluid that was found in the abdomen. We observed a small 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 circumstance showed that the fluid trickled from the tumour into the abdomen, and from thence through the rectum and fundament, and not from the uterus through the vagina, as had been imagined. 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 first, and a little above. on the left fide of the fundus, and contained also in the substance of the aterus; but when we 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 these glands that had increased 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 discharged as was before observed. The inside of the tumour was full of little hard knots, of the bigness of hemp-feed, and the coats about one-eighth of an inch thick. The pain was much of the fame kind as a burning heat and tearing,

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tearing, attended with a hectic fever, fyncopes, a low, quick, and fometimes an intermitting, pulfe. Thefe fymptoms, before I examined the os uteri, made me imagine there was a cancer in the uterus; but, finding the os-uteri foft, and hot feirrhous, and in large hard bumps, as in other cafes when cancerous, I was at a lofs what judgment to form, though I imagined it was more probably a gland or polypus, increafed to a large fize in the uterus, and turned cancerous, and that the finall polypus was an appendix from that; and as fhe had fomething every now and then like labour-pains, the large polypus, if it adhered to the uterus with a finall neck, might be at laft forced down into the uterus and taken off by a ligature.

C A S E V. Communicated by Dr. Harvie.

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WOMAN who had bore feveral children, and was of a delicate con-A flitution, about the age of forty-five began to be irregular as to the catamenia. Sometimes the 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 years, when the was feized with violent throbbing pains above the left groin, and had no rell unlefs the took an opiate. A large quantity of ferous foctid matter began to be discharged from the vagina, which by degrees brought her very low. She had confulted feveral phyficians, but found no relief; at length I was fent for to inform her phyficians of the flate of the uterus. Upon examining, I found all the back part of the vagina filled up with a large hard fubflance, the os uteri more forward than common, with large, hard, and ragged lips; from which the doctor and I agreed that the uterus was feirthous and cancerous. She now alfo had great pain above the left groin, which we supposed 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 intermission of pain but by opium, which at last was increased to thirty grains in twenty-four hours. For feveral months before death she continued in this deplorable situation. I was afterwards defired to open the body, and found a confiderable quantity 'of thin ichorous matter, of a very offenfive fmell, floating among the intestines; the periton wum, the external coat of the intestines, was croded every where as far as the matter had infinuated, and the inteffines were every where adhering. At first I was at a loss to know from whence this matter came, or indeed to diffinguish one part from another; but upon careful infpection found that the right ovarium was fchirrous, one end of which had formed into a large abscess and broke. The uterus was also fchirrous, and about the bignefs of a goofe-egg, and preffed fo elofe 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 fitu, and observing the uterus thrown closer 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 concave part of the facrum. The length of this ovarium was five inches; in thickness four inches, entirely schirrous. 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, must have been from the imposthumated ovarium corroding and making its way through the parts

parts (vide cafe iv.) as that did into the rectum, which prevented an afcites in the abdomen.

Bonetus, in his Sepulchretum, lib. iii. fect. xxxii. obferv. vi. viii. &c. gives feveral inftances of farcomatous and glandular tumours, which were mittaken for the uterus, 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, fhe had every month a very confiderable difcharge of blood, which weakened her fo much that fhe died. On opening her body, there was found, adhering to the fundus uteri, a flefhy mafs of the bignefs 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 veins emptied themfelves, and from whence the monthly hæmorrhage flowed. The fubftance of it was glandular and feirrhous, 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 Philosoph. Transact. No. 481, p. 285, is a letter from Peter Templeman, M. D. to William Beattie, M. D. Fellow of the Koyal College of Physicians, London, and F. R. S. concerning a polypus at the heart, and a fehirrous tumour in the uterus.

NUMB. II. CASE I.

OF THE SCIRRHUS AND CANCER IN THE UTERUS AND VAGINA.

I ASSISTED in opening the body of a woman turned of feventy, who, for a long time before the died, had been very big in the abdomen, and fubject to retchings and colic pains : the first diforder was fupposed to proceed from water contained in citudes, and the other complaints from a diffemperature in the fpleen or kidneys.

The adipofe membrane and omentum were of an extraordinary thicknefs. The uterus was almost as big as a child's head, and feemed very folid to the touch; when laid open, we could not perceive the least appearance of a eavity, which, in all probability, was filled up by the increase and preffure of the glands. The gall-bladder contained about twenty stones of different fizes, while the ovaria were small and shrunk.

CASE II.

A Nold female fervant belonging to a lady in the country died in a very conaciated condition, her belly having been increafed to an enormous fize. The abdomen had begun to fwell foon after the catamenia ceafed to flow; and as it increafed to a confiderable bulk, fhe 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 lie in bed except when fupported by pillows; though fhe was eafier when up, efpecially when fufpended by the arm-pits. A great number of deobftruent medicines 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

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not a little furprifed to find the fwelling proceeded entirely from the uterus; which, when taken out, weighed about twelve pounds. It was aftogether 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.

CASE III.

W HEN I opened the abdomen of the woman mentioned numb. ii. cafe i. collect. viii. I found the uterus nearly as large as that deferibed in the first cafe of this number; but the furface, instead of being fmooth, was rendered unequal by large indurations as hard as a cartilage: the ovaria were affected in the fame manner, and feveral feirrhosities appeared upon the omentum. The cavity of the uterus was irregular in confequence of those indurated swellings, the interstices of which were deeply ulcerated; the os uteri was large, unequal, and studded with tumours as large as pigeon's eggs; and the vagina was full of little ulcers with callous lips.

CASE IV.

I WAS lately 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 afflicted 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 closely 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 operation. 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 factid finell.

I have known a great number of fuch cafes, which commonly begin at the time when the menfrual difcharge ceafes, being occafioned by different accidents and irregularities; and generally prefcribe venæfection once a month, and fome gentle laxative once or twice a week; by which means the uterus, though feirrhous, is kept in a flate of indolence, without inflammation, or degenerating into a confirmed cancer.

N. B. The above patient died foon after the cafe was fent to the prefs.

COLLECTION X.

Of complaints proceeding from uterine gestation.

NUMB. I. CASEI.

OF NAUSEA, VOMITINGS, AND LONGINGS.

[Vide Part i. Book ii. Chap. i.]

WAS called to a woman, who having been attacked in the fecond month of her first pregnancy with violent retchings and vomitings, was perfuaded by fome of her acquaintance to take a vomit, which they fuppofed would remove the complaint. She accordingly took twenty-five grains grains of ipecacuanha; which operated upward and downward with fuch violence, as threw her into convultions and floodings; and when I came to her affiftance, the 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:

R Tinct. rofar. rub. 5vfs. Laud. liquid. gutt. xv. Conf. fracaft. zij. M. and between whiles a little burnt clarct. The evacuations foon ceafed, and the enjoyed tolerable reft that night; but the difeharge of blood returned next morning, and pains coming on, the mifcatried the following evening.

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 beginning of the fecond month I was called to her relief. Finding fluc had exceeded the ufual period of her catamenia about a week, I ordered eight ounces of blood to be taken from her arm : and fhe was immediately relieved. In four weeks after this evacuation, the retching began to return 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 fuccefs, and happily went on to her full time : neverthelefs, though thefe evacuations greatly diminifhed the complaint, it in a fmall degree recurred every morning till the middle of the fifth month.

A WOMAN, fubject to nervous complaints, was, in the fecond month, of her fecond pregnancy, attacked with violent retchings; for which fhe 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 the mifcarried in the fourth month.

I WAS called to a woman who had been fuddenly feized with a violent colic, and frequent ftraining like that of a tenefmus. She being coffive, I ordered a clyfter, which operated feveral times; but the ftraining ftill continuing, I gave her twenty drops of liquid laudanum in a little white wine whey. In the mean time her fifter, in putting her to bed, obferved that fhe had undergone a large difcharge of blood, and defired me to examine I was not a little furprifed to find the head of a fœtus 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 way of recovery; and was then informed that fhe had been privately matried; and the preceding night, in order to couceal this ftep, had eaten heartily of a difh which was known to have been her favourite, notwithftanding a naufea, which threw her into those fevere colicpains and ftrainings that occafioned the mifcarriage.

CASE V.

WOMAN who had borc children, been uncommonly healthy dur-A ing pregnancy, and used to banter her female companions on account of their antipathies and longings, was herfelf, when four months gone with child, one evening unaccountably feized with a longing for an artichoke, when she heard them cried in the street; 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 appetite: She could not fleep, however, but became reftlefs aud anxious, felt a craving and uneafy fenfation at her flomach, and could think of nothing but the pleafing and relifning difh of which the had baulked her own inclination. Towards morning the was attacked by violent fpafmodic contractions in her bowels, and I was just called in time to receive the little foetus : but there was no difcharge from the utcrus; fo that I knew the placenta still adhered, and refolved to wait with patience until it should be difengaged and come away of itfelf. Being coffive, 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 :

R Confect. damocrat. Bij. Aq. cinnamom. fimp. Zjís. Spirit. fyr. croci ā zij. M.

By these means she obtained rest, and a plentiful swcat; and next night there was a small discharge from the uterus, succeeded by after-pains, which difcharged the fecundines: Vide La Motte, obferv. 43; and 44.

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OF OBSTRUCTED URINE AND COSTIVENESS.

DEING called to a woman, who, in her first child, had a total obstruc-D tion of urine about the end of the fourth month, I found her in great. pain from a diffention of the bladder; for the suppression had continued full thirty hours; and immediately gave her cafe, by drawing off the urine with the catheter. 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 usual. After having evacuated the bladder, I ordered her to be bled, and a clyfter to be administered, as she was costive. Next morning I found her in the fame condition as before, fhe having paffed no urine fince the catheter was used. I again examined the state of the uterus, and felt it forced still lower down by the pressure of the over-charged bladder : indeed it was fo low, that I could feel the length of the neck, and the fretching of the fundus, which feemed to fill up the whole pelvis. I likewife examined by the rectum; when finding it prefs ftrongly against the facrum as well as the pubes, and feeling it uncommonly hot, I concluded: that its whole body was inflamed. When I preffed my finger against the os uteri, fo as to raife it up, fome of the urine was discharged, but this being in finall quantity, I was fain to have recourse to the catheter; by which the 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 pulfc, accompanied with other feverifh fymptoms, for which bleeding was repeated to the quantity of ten ounces; and as the clyfter had not operated according to expectation, I prefcribed a folution of mann. 3j. fal. Glaub. zij, in aq. fontan. and directed that the clyfter should be repeated in cafe this hauftus fhould not begin to operate in two hours. Next day I was called again to evacuate the urine, and found that the draught had operated feveral

feveral times; but the pains in the vagina fill continued, together with the fever, though not fo high as the preceding day. I then advifed her to be capped and bathed, by which means her complaints abated; yet I was obliged to draw off the urine once in twenty-four hours, for eleven days, before the could pafs it in the natural way, and then the went on to her full time. She began to be troubled with this fupprefilion about the fame time in her next pregnancy; but by bleeding; and keeping her body open, it was prevented from being total. I have had two other patients troubled with the fame complaint about the fame period of geftation, which continued fourteen days, and was overcome by the fame method, namely, by repeated bleedings and elyfters, together with the affiltance 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.

CÁSEII:

I WAS lately called to a woman in the fifth month; and felt the fundus uteri forced down backward to the lower part of the vägina, the os uteri being forward and above the infide of the left groin. The neck and under part of the bladder were for preffed, that the patient had not urined for feveral days; the vehica was firetched up to the ferobiculus cordis, and a fluctuation was felt as in an afeites. The male catheter was used, because the other was too fhort, and emptied a great quantity of urine; fo that the differition of the abdomen confiderably diminished.

Next day, after the fame operation, fhe mifearried, confequently the obftruction was removed: but being greatly emaciated by want of nourifhment; fhe was in two or three days carried off by a diarrhea.

And the second s

CASE III.

B EING ealled to a woman who was feized with labour-pains, and a fmall degree of flooding, in the third month, occafioned by a violent tenefmus, I ordered fix ounces of blood to be taken from her arm, and preferibed an anodyne draught, which relieved her for feveral hours; but the pains returning, fac foon mifearried. The fame accident had happened to her twice before, from the fame caufe; for fhe was naturally very cottive. She no fooner fufpected herfelf of being with child again, than my advice was demanded; and the being of a full habit, I preferibed venæfection to eight ounces, and a laxative clyfter to be injected immediately. Then I directed her to take about three drachms of the elect. limitiv. every other night, to live chiefly on broths and boiled meats, with boiled roots and greens, and, as it was then fummer; to eat ripe fruits. By this regimen her body was kept open, and the went on to the full time:—Vide La Motte, obferv. Ii. & feq.

NUMB. III. CÀSEI.

and the second se

OF SWELLINGS OF THE HAMORRHOIDS, LEGS, THIGHS, AND PUDENDA.

I VISITED a woman in the fourth month of her pregnancy, who was very much afflicted with coffiveness and hemorrhoidal complaints, to which the was naturally subject. At this time, however, they had increated to a great degree; and the pain was to fevere, that the had enjoyed title or no reft for feveral nights. I preferibed venzefection, to the 11 D d quantity

[PART II.

quantity of ten ounces; and as the was averfe to a clyfter, ordered a bolus, confifting of R Flor, fulph. Dj. Pulv. e chel. cancror. fimp. Dfs. Elect. lenitiv. 3j. Syr. rof. folut. q. f. to be taken at bed-time, in fome water-gruel, made with fresh butter. If this should not operate plentifully next morning, I directed it to be reinforced with fal. Glaub. 3ij. mannæ 3j. diffolved in water. She accordingly took both preferiptions, in confequence of which the had three motions. The fphincter and was fo fwelled, inflamed, and painful, that I thought it necessary to foment the parts with the steams of an emollicant decoction, in which fome fal ammoniae was diffolved, with a mixture of spirit of wine and vinegar. Notwithstanding these applications, the pain, fwelling, and fever increased ; and being afraid to use scarifications or leeches to a woman in her condition, without farther advice, I defired a phyfician might be called. He ordered a repetition of venæfection and opening medicines, by which the fever was allayed; but as the hæmorrhoidal fwellings did not fubfide, we ventured to apply leeches to the parts ; about five ounces of blood were difcharged, and the fwelling immediately fubfiding. the proceeded happily to the full time.

CASE H.

I ATTENDED a woman whole legs had begun to fwell in the fe-venth month of pregnancy; and this fwelling, which was of the leucophlegmatic or anafarcous kind, continued, without giving her much difturbance, till the middle of the ninth month; when being obliged to walk a confiderable way upon fome particular bufinefs, fhe, on her return to her own home, found her left leg and thigh exceffively fwelled and pain-fui. Indeed, when I was called, I began to fear a mortification would. enfue, for the fkin appeared of a livid hue. The woman being otherwife of a ftrong and healthy conffitution, I immediately ordered twelve ounces of blood to be taken from her arm; and, as fhe was coffive, prefcribed a purgative clyfter, which operated three times. Her leg and thigh were fomented with a decoction of the fame nature as that defcribed in the preceding cafe; and, as the pain continued, an emollient cataplasm was applied over all the parts affected. She enjoyed little reft that night ; and finding her fever, pain, and reftleffnefs remaining next morning, 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 emultion with nitre, and continue the use of the fomentation and pultice. Next day the pain and tenfion were a little abated; but her pulfe being fill quick, the was again bled to the quantity of eight ounces, and the internal medicines, with the external applications, continued. By thefe means the inflammation was carried off in a few days ; and in a little time, the fell into labour, and was fafely delivered.

CASE III.

55

A WOMAN of a lax habit of body, during her first pregnancy, ran into the extreme of being too abstemious, and drank nothing but water. In the fourth month her legs began to fwell; and when I was called in the feventh, I found not only her legs and thighs ædematous, but also the labia bia pudendi fo much fwelled that fhe could not walk. This fwelling, however, fubfided, in confequence of a few punctures with the point of a lancet, I then preferibed repeated dofes of the confectio cardiaca, and directed her to drink firong beer or wine, inftead of fmall beer or water. By these means the recovered a little from the languishing condition in which the was, though the fwellings of the legs ftill continued; and when that of the labia returned, fo as to prevent her taking a little exercise, it was reduced as before by the punctures.

In this manner the went on in her pregnancy to the end of the eighth month, when the was taken in labour; and though her weaknefs rendered the cafe tedious, the was fafely delivered of a very fmall child that lived fome weeks. She recovered tolerably well of her lying-in for the first twenty days, and the œdematous fwelling fubfided; but her conftitution having been to much weakened and impaired, the whole furface of her body began to be puffed up with an anafarca. This cafe being without the fphere of practice to which I had confined myfelf, I defired that other advice might be ufed; notwithstanding which the difeafe ftill increased, and carried her off in about fix weeks after her delivery. *Vide* La Motte, obferv. xlv. xlvi. xlvii.

NUMB. IV. CASE I.

Of pains in the back, belly, fides, together with vomitings and difficulty in breathing, toward the end of pregnancy.

I WAS 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 arrived the had mifcarried. I then underftood the had formerly fuffered a great deal from wiolent floodings in her fecond pregnancy, when at her full time, by which her health was weakened and impaired : fince that misfortune the 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 conflitution 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 bear evacuations, but mifcarried in confequence of them.

CASE II.

Contraction of the second s

A WOMAN of a healthy confliction 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 fre was conflipated, a laxative clyfter to be injected. By these means the violence of the complaint was abated; but next day her pulfe continuing quick and full, the venæfection was repeated to the quantity of eight ounces, and a ftrengthening plafter applied to the back. These precautions being taken, the proceeded tolerably well till the eighth month, when the was feized with ftretching pains in the abdomen and fide. I again preferibed D d 2 phlebotomy

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 she went on to the full time.

She had mifcarried in the third month of her first pregnancy, neglecting the precaution of being bled when she was feized with pains in her back, and other plethoric complaints. I have been confulted in many such cafes, and always find, that women of a full habit are relieved by venæfection at any time of pregnancy.

CASE III.

WOMAN was, toward the end of the eighth month of pregnancy, A attacked with vomitings and a difficulty in breathing; which in-creafed to fuch a degree, that fhe could not lie in bed, but was supported by pillows, in a pofture between lying and fitting; nor could the retain either folids or fluids on her stomach. I was called about the middle of the ninth month, when I found the uterus ftretching higher up than is ufual in the abdomen. I was informed that the had nearly the fame complaints, though not to fuch a degree, in two former pregnancies; that fhc feldom wont abroad, took little or no exercife, but frequently lay on the bed, and that her drefs had been always loofe. In confequence of thefe hints and obfervations, I supposed that her complaints proceeded from the preffure of the uterus, and ordered fix ounces of blood to be taken from her arm. I likewife prefcribed draughts with the neutral falts ; but thefe being rejected by the ftomach, I directed about half a pint of ftrong 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 defired effect. Indeed I diffolved four grains of opium in the two first that were administered, in order to prevent their being discharged ; but when the inteffines were emptied, they remained without the opium, and were. taken up by the abforbent vefiels.

By thefe clyfters fue was effectually nourifued, and the dyfpnœa relieved by frequently taking the air in a coach, till fue arrived at the full time, when the was delivered of a finall weakly child, and a great quantity of water.

In her next pregnancy fhe laced tighter at first, flackening by degrees as the increased in bulk, and took a good deal of exercise; by which precautions her former complaints were prevented from returning.

CASE IV.

A CONTRACTOR OF THE OWNER

ATTENDED a patient in her first labour, of a leucophlegmatic habit, lived in an indolent manner, and had the fame complaints that are deferibed in the preceding cafe, though not to fuch a violent degree. I was not called until she was in labour, which proved very tedious from her weaknefs; and I advifed her to take more exercise, if ever she should be pregnant again. About two years after this period, I was summoned again; but she was delivered some hours before I reached the place of her abode. Far from having followed my advice, I understood she had acted in diametrical opposition to it; dreffed in a loose flovenly manner, without even walking in her room, but rather chose, toward the end of her pregnancy,

PART II.]

pregnancy, to be always in bed, fupported with pillows : the dyfpnœa and petchings had begun fooner than in her first pregnancy, and she feemed to be in a very weak and dangerous condition; for after delivery, her complaints did not abate. I advised those who were present, to fend immediately for the physician of the family, and left her to his care; but the wis with was for much exhausted that she died in two days. As for the child, it had been dead for feveral days before delivery.—Vide La Motte, observ. I.

COLLECTION XI.

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Of discases that occur at other times, as well as in uterine gestation.

NUMB. I. CASEI.

OF STONES OR GRAVEL IN THE KIDNEYS OR BLADDER.

[Vide Book ii. Chap. ii.]

WAS 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 flones had paffed into the bladder, and were difcharged with the urine. When I arrived, fhe was in great torture from a ftone, which fhe imagined had flopped 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 apprehension, I ordered ten ounces of blood to be taken from her arm, a clyfter to be administered, and after its operation, preferibed ten grains of pil. Matth. by which means the violence of the pain was allayed, and in a little time the flone 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 more fevere, and returned more frequently during pregnancy, than at other times.

CASE II.

Communicated by Mr. Archdeacon, furgeon; at St. Neot's.

ONE Gibbs, the wife of a coal-porter in this place, had long complained of violent pains in the bladder, with other fymptoms of a flone; but met with little compafilion, becaufe fufpected of idlenefs, rather than of having any real diforder. She afterwards proved with child, and endured great torment all the time of geftation, till fhe fell in labour, when the midwife being called, was furprifed to find a hard body prefenting before the head of the child. She did not know how to act upon this occafion; but the patient's circumftances not permitting her to employ a male practitioner, patience was the only 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, weighing 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 years of age. The woman recovered very well.

PART II.]

well, but was troubled with an involuntary emiffion of urine: fhe afterwards bore a daughter, and lived feveral years, until the was fhot by accident at a gentleman's house in this town.

In Phil. Tranf. No. 202, p. 817, there is a paper by Dr. Thomas Molineux, giving three cafes of young girls of fix, ten, and eleven years of zge, from whom stones were extracted by dilating the urethra without cutting, although in the lass the stone was of a large fize. And another paper, in p. 818, of a woman who voided a stone that weighed above two ounces and a quarter. A stone about the same magnitude, was voided by another woman of fixty-three years of age, as attested by Dr. Richard Beard, No. 178, part v.

There is also a paper from Dr. Beale, No. xviii. p. 320, defcribing a frame taken out of the womb of a woman by incition, that weighed near four ounces.

CASE III.

DONETUS, in his Sepulchretum, book iii. fect. 38, obf. 1, relates a cafe of a woman who was for many years afflicted with a most vioient pain in the left kidney, and though fourteen times with child, was always delivered before her full time, in the eighth or beginning of the minth month. When the died, he opened her, and found the left kidney quite wasted; the right kidney was very much fwelled, and contained a very large flone.

The thirtcenth cafe was that of a woman who was for many years fubjeft to convulfive diforders of the hyfteric kind, which were more violent when the was with child; and the commonly mifcarried at the end of the third month, and at laft died of an apoplexy. When the was opened, contrary to his expectation, the womb appeared to be perfectly found, and he could find nothing about those parts that could occafion the diforder; but, in opening the head, he found a large quantity of water lodged in the cavities of the brain, which he alledges was the occafion of those fpafmodic pains and diforders, and of the abortions that followed.

He has feveral other cafes of abortions, occasioned by feveral other canfes.—Vide collect. xii. of this book.

NUMB. II. CASE I. OFHERNIAS.

WAS 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 affiltant to prefs her fingers on the part during every pain, to prevent it from being overftrained; and fhe was fafely delivered. I expected the hernia would return as foon as fhe 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 fide. I was, however, agreeably difappointed; for it has not yet re-appeared, though I have delivered her twice fince that period.

C A S E II.

CONTRACT LAND T

I DELIVERED a woman who had been afflicted with a rupture in the left groin, during the whole time of uterine gestation. Though she could reduce the hernia, it was forced down by every pain, and gave her great uneafines.

uneafinefs. The labour being pretty far advanced when I arrived, I took the opportunity of reducing the hernia upon the ceffation of the pain, prefling my fingers upon the part, and directing her to lie on her left fide, with her thigh clofe up to the abdomen, a position which favoured its kceping up, and prevented the anguish which retarded the labour. She was accordingly fafely delivered; and when the recovered of her lying-in, I recommended a trufs, by which the diforder was palliated.

CASE III.

And A State of State

I ATTENDED a patient, who, after a former labour, was afflicted with an exomphalos, which difappeared in the eighth month of uterine geftation, but returned after delivery.

I WAS called to a woman who had felt a fwelling gradually increase 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. This hernia continued down all the time of her first labour; upon which an inflammation and strangulation of the intestine enfued, fo that it could not be reduced as usual. But as she had a large discharge of blood after delivery, and the parts were fomented with difcutient fomentations, re-inforced with warm and emollient cataplasms, the stricture was overcome, and the hernia reduced. In her next labour, the inteffine was forced down by the pains, which had also puthed down the membranes with the waters, and confiderably opened the os internum. The hernia, however, was reduced by opening the os externum, introducing my hand into the vagina, and pushing the intelline above the os ficrum. By this operation the membranes were broke, the waters discharged, and the head being forced down into the pelvis, kept up the intelline : then she was fafely delivered, without undergoing the fame rifk fhe had run before.

CASE V.

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I HAD occasion to examine a hernia of the fame kind in a woman, who, about two years before I faw her, and a month after fhe was delivered of her first child, had felt a fwelling on the left fide of the perinæum and anus, which the imputed to the violence used by the midwife in delivering her. The fwelling increased confiderably, hanging down in the day, though while the was in bed the could gradually thruft it up into the pelvis between the vagina and rectum, by introducing two fingers into the vagina, and pufhing it up until she found it returned into the abdomen; but when the arole it always relapled. About three quarters of a year after this tumour first appeared. she conceived, and was feized with a violent cough, which forced down the inteffine in fuch a manner as to increase the fwelling to the fize of a man's fift. As fhe augmented in bulk, fhe found greater difficulty in reducing the hernia, though the reduction became more neceffary, from the pain occasioned by the pressure of the uterus, infomucla that fhe was frequently obliged to lie down on purpose to effect it. About five weeks before the feil in labour, the tumour increased to fuch a degree that the could not reduce it at all; and thus the continued for feveral days in great pain. As the had been an out-patient of St. George's hospital,

Dr.

Dr. Rofs fent her husband 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 distance, I defired Mr. Tomkins to vifit her; but she would not allow him to examine 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 fluctuation underneath. From the opening, which was finall, iffued about a fpoonful of pus, mixed with blood; and immediately after this discharge, a thin sluid of a greyish colour, to the quantity of half a pint. This rupture no fooner happened, 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 still continued to flow in a small quantity, appeared to be the contents of the ileon, part of which, we concluded, must be mortified. She being coffive, the colon was emptied by a clyfter, a pledget applied to the aperture, and fhe 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 ooze from the fmall orifice; fo that I imagined the inflamed inteffine had adhered to the neighbouring viscera, after the mortified floughs had been cast 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 eafy paffage of the ingesta. In about five months after this cure, the rupture re-appeared, in confequence of her over-ftraining at a wash-tub; and she being again pregnant, it was feveral times reduced by one of my pupils, by whom the was likewife fately delivered. She afterwards fickened of the finall pox, and died.

CASE VI.

Contraction of the second

Communicated in a letter from Mr. Stubbs, of Bedfordsbire.

HE was called to a woman near forty years of age, in labour with her first child, and understood a midwife had been in waiting ten hours, and that the membranes were broke. The vagina and pelvis were filled up by a tumour, which at first touch he mistook for the head or nates of the child, for he had fearce room to introduce one or two fingers betwixt it and the pubes; but opening the os externum, and pushing up this tumour, he felt the os uteri largely dilated, and the child's head refting against the pubis.

He withdrew his hand, which was very much cramped and preffed; and having refted a little, and confidered the nature of the tumour, which probably proceeded from the inteffines pufhed down at the back part of the vagina, he again infinuated his hand, and preffing ftrongly upon the tumour, it was reduced, and the head immediately defeended into the pelvis; then it was delivered by the forceps, becaufe the woman was weak, and both mother and child did well.

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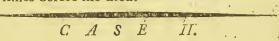
PART II.]

SMELLIE'S MIDŴIFERY.

NUMB. III. CASEI.

OF AN ASCITES DURING PREGNANCY.

I WAS called to a woman immediately after her delivery, who, from the bignels that remained, imagined 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 increased confiderably after the recovered of her lying-in, when I advifed her to confult her physician and furgeon, who, in order to relieve her of the anguish proceeding from the differition of the parts, tapped her feveral times before the died.



I T will be unneceffary to deferibe 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 preferibed 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. 81, and Medical Effays of Edinburgh, part v: p. 642:

An account of an hydrops ovarii, by Dr. J. Douglas, No. 308; p. 2317, of the Philof. Tranf .--- A woman, not long after fhe had lain-in of her first child, received a violent blow upon the left fide of her belly; the pain abated in two of three days; but returned in two months, when the obferved that fide gradually turn bigger than the other, and the pains increafed; but in three months after the was first afflicted with them they went off, when the turned pregnant; and had no other fymptom than what is common in that state, only she 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 fhe died on the third day. On the doctor's opening the abdomen, there iffued out a vast quantity of flimy viscid water, in colour and confistence 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 peritonzum, as the intestines did not appear; but after examining more narrowly, he found that the thick membrane, including the waters, could he leparated from the viscera and peritonaum. 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 parts, 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. All the other vifcera in the abdomen were found, and in their natural ftate.

There are feveral other papers of fuch cafes in Phil. Tranf. viz. No. 140, p. 1000. 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. 381, p. 8, of a dropfy in the left ovarium, of a woman of fifty-eight years of age, cured by a large incifion 11 E e made made in the fide of the abdomen, by Dr. Robert Houfton, who relates the following particulars :

A woman near Glafgow, in her last lying-in, at forty-five years of age, fuffered much from her midwife's feparating and pulling away the placenta with too great violence, and was fo fentibly affected with a pain which then feized her left fide, between the navel and the groin, that ever after fhe had fearce been free from it, but had it more or lefs for thirteen years together.

That part of the abdomen increased, and gradually stretched to a great bulk, and at laft drew to a point, when the Doctor made by degrees a large opening, from which was discharged a gelatinous substance, and then about nine quarts of fuch matter as is observed in steatomatous and atheromatous tumours, with feveral hydatides of various fizes, containing a yellowish ferum, and feveral pieces of membranes, which feemed to be parts of the diffended ovarium. After this, he fewed up the wound with three flitches, and by a careful management the woman recovered and lived feveral years. The doctor 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, Forref-, tus, Ruysch, &c. Others have given remarkable cafes of dropsies of the ovarium ; particularly one is defcribed by Drelincourt, which feemed to be nothing but a number of little globules elustered together; some 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 ovarium, with its con-tents, weighed fixty pounds. Thefe few, out of many inflances from authors of undoubted reputation, he alledges, fuffice to prove, that the ovaria, as well as the tubæ Fallopianæ, ligaments, and uterus itfelf, are not free from dropfics, &c. and they are owing to obstructions, often occafioned by rude and violent dealing with women in hard labours. In No. 423, p. 729, is a fimilar cafe from Mr. John Belcher; and in No. 466, p. 223, another from Dr. Short.

NUMB. IV. CÀSE I. OF THE LUES VENEREA.

NE of the poor women attended by my pupils, being near the full I time, had a bubo in the groin, and her throat began to be affected with a venereal inflammation. Pultices were applied, in order to bring the tumour to fuppuration ; and fmall dofes of calomel were given inter, nally, to reftrain the infection, until the thould be delivered. Thefe methods feemed to fucceed: the was fafely delivered of a male child, which at first had no appearance of infection ; but, in about eight days, the forotum and penis began to fwell, inflame, and break out in little ulcers; 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 difcharged; and I defigned to have fent her to an hospital for the cure of the lues, as foon as the thould be in a condition to be removed; but the ulcers in her throat grew worfe and worfe ; in about a fortnight after delivery her lungs were affected, a confumption enfued, and death was the confequence. It

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It is observed, in general, by the gentlemen who have frequent opportunities of falivating pregnant women in the hospital, that it is performed fafer in the first fix or seven months of pregnancy, than in the last two or three months, becaufe they are then in danger of being delivered at the height of the falivation. But that they are less subject to miscarry in the fifth or fixth months, than in the first four months; that women ought not to undergo a falivation, unlefs the difeafe is like to prove deftructive by phagedænic 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 abstemioufly, and take opening medicines, 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 those that are pregnant, or in those that have them during pregpancy. and the second second

The following observations are from Mauriceau, with regard to the treatment of pregnant women affected with the wenereal disease.

IN observ. xxiii. p. 20, he gives an account of his being called to see a young woman, aged twenty-two, in her seventh month of pregnancy, who was then under a falivation for the lues venerea, and who spit near three quarts a-day; and yet was happily delivered at the full time, of a healthy child.

In obferv. 1xxi. 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, and a moderate falivation was carried on for a month; the use of the warm bath was forbid; and the woman was at last 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 fafeft and propereft to falivate them in the earlier months of pregnancy, when the evacuation will lefs affect the focus.

N. B. Two other cafes are mentioned, but in one of them the patient had only a gonorrhœa, which, though not cured, did not affect the child; and in the other cafe the patient was only fufpected of having a lues venerea.

COLLECTION XII.

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Of miscarriages, or delivery before the full time.

NUMB. I. CASE I.

OF WHAT MAY OCCASION THE DEATH OF THE FORTUS IN UTERO. [Vide Part i. Book i. Chap. iii.]

WAS fent for to a woman near the full time of her first pregnancy, who imagined she was in labour; but I found the os utori close shut : and upon enquiring more minutely into the nature of her complaints, I thought they proceeded rather from the colic than from any tendency to labour; and she told me she had not felt the child fir for eight or ten E c 2 days. days. I ordered her to be bled, and the inteffines emptied by a clyfter; and these evacuations, together with an opiate, carried off the pains. In five or fix days I was called again, and found the os uteri largely open, the pains flrong and frequent; and though the case was tedious, she 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 obfiruct the circulation.

I was concerned in another cafe, where there was a knot upon a long funis, yet not fo clofe drawn but that the child was alive.

ONCE 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 proceed from a hurt in the delivery; for the arm prefented, and the child being brought footling, I found more difficulty than ufual in delivering the head.

I WAS called to a woman in labour, and felt the os uteri backward toward the facrum, and a little open, though I could feel no waters The head preffed down the uterus before it to the lower part of the pubes; and I felt fomething unequal, like a long flat fubflance, between the uterus and globular part of the head. This, upon delivery, appeared to be about two inches of the funis preffed flat and mortified; and the child feemed to have been dead fome days.

A NOTHER child, which prefented with the arm, I delivered footling, and found the funis wound three times round the neck, which, at the abdomen, was drawn very fmall, and flattened. This, no doubt, was fatal to the child, who had been dead many days.

I DELIVERED 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 flir. She was taken with a vomiting and purging in the eighth month, which brought on the labour-pains, and delivered her of her child, which was entirely mortified. The cuticula was eafily flript off, the abdomen fwelled, and the fcalp and bones were loofe and pappy.

I have attended in many cafes were much the fame 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 fourteenth or fifteenth day, after accidents, fevers, exceffive fatigue.

PART II.]

tigue, &e. and labour is generally brought on by fuper-purgation, ficknefs, and retching; and fometimes by the breaking of the membranes. I have likewife known many women mifearry, though nothing extraordinary had happened, and no caufe could be affigned for the death of the child.

CASE VI.

WOMAN 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 August was taken with a pain in her back, from a strain 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, continually 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 administered, 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 elyfters, 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 symptoms were at the worst, 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 fubstance could be felt. An attempt was also unfuccefsfully made to dilate with long narrow-mouthed forceps; and injections were thrown up with a long flender 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 ceased. However, she had feveral slight relapses till the May following, when the voided by the anus feveral bones of the skull, and other large bones of the body, the cartilages and spongy ends of which were diffolved, though they appeared to have belonged to a factus five months old. During this whole time, the lips of the os tincæ were fmooth, and the neck of the uterus was long, nor had the the least flooding, until three months after, that the menstrual difcharge returned. This was her first pregnancy, fince which she has not conceived; and what is very remarkable in the cafe, fhe never had pains about the uterus, but only at the navel and fcrobiculus cor-dis; and thefe were doubtlefs owing to the bones working their way through the womb and rectum. THE REAL PROPERTY AND PROVE THE PROPERTY OF

CASE VII.

A BOUT the fame time, another woman, who had formerly bore a child, and was in the fifth month the 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 space of three weeks, though no bones were evacuated. Some time after this diforder, she recovered her strength, had a regular difcharge of the menses, 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.

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There are two cafes much alike in the Philof. Tranfact. The first in No. 229, p. 580, by Mr. James Brodie, of a negro-woman, about the feventh month of her being with child, whofe navel imposthumated and broke of itself; and after it had voided fome quantity of ichorous matter, whereby she had fome ease, the difeharge ceased. In about a month after, it imposthumated again to a much greater degree than before; a surgeon opened it with a large lancet, and after discharging a great quantity of thin ichor, extracted the bones of the fætus. The woman recovered, and had a child afterward.

The other is in No. 461, p. 814, by Dean Copping, of a woman who went with child for feven years, till fhe became again pregnant, and proceeded to the ninth month; about which time there was a tumour about the bignefs of a goofe-egg, an inch and a half above the umbilieus, 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; fhe therefore fent for a butcher ! 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 fœtus, which he eafily extracted. He afterward, obferving a black fubftance, introduced his hand into the opening, and extracted piece-meal the bones of another fœtus, and feveral pieces of black mortified flefh. She recovered, and was able to purfue her domeflic affairs, only fhe had an exomphalos ever after.

No. 275, p. 1000, is an account of the greatest part of the foctus voided by the navel, feveral weeks after a midwife had delivered the focundines, which she took for a mola, on her finding no child, by Mr, C. Birbeck. And in No. 302, p. 2077, Sir Ph. Shipton communicates a cafe in which part of the bones of a foctus were voided through an imposchume 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 came upon her, and for three weeks together, there came from her daily fome quantity of corruption, with pieces of flefh and fkin; and fhe continued dangeroufly ill for about eight 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 laft of thefe three children, fome bones of a fœtus came from her; after this, divers other bones came away with her catamenia, and feveral, amongft which were fundry parts of the fkull, and fome of the larger bones of the body of a fœtus, worked their way by degrees through the flefh above the os publs. The woman was alive feveral years after.

Dr. Ch. Morely, in Phil. Tranf. No. 227, p. 486, defcribes the eafe of a woman, who after having had children, being again pregnant, was invaded with the expected labour-pains, which in a few days went off; but the tumour in the abdomen remained. She returned to her ufual employ, continuing for more than a year without being freed from her burthen. At laft 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 evacuated; for fo long as the woman had exceeded her due time of geftation, fo long was fhe in difeharging the bones by flool; which were all kept in a box, in which they appeared fo very numerous, and with fo many diffinct fkulls, as might induce every one.

one to believe that three foctules had lain fo long buried in the uterus. 'The woman did well; but two years after, riding to fome diftance, the wound was broken open again by the violent flaking 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 fometimes fhe had her menfes in a imall quantity, fhe perceived her belly leffen, with only a kind of preffure remaining in her right fide: a month after, fhe conceived again; and in December 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, fhe felt a pain in the anus, as if the rectum would drop from her; and endeavouring with her fingers to relieve herfelf, fhe extracted a piece of the cranium as big as a Swedifh crown, and at the fame time two ribs were 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. Tranf. No. 477, p. 529, is a letter from Mr. James Simon to the prefident, concerning the bones of a foctus voided *per anum*.

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, viza

Rofe, the wife of Mortaugh Mac Cornwall, of the parish of Tullylish, barony of Clare, being in the 37th year of her age, and mother of feveral children, conceived as usual; but in two or three days after, felt an exceffive unnatural kind of pain in the matrix ; which continued with frequent faintings, a depraved appetite, and an exceeding great weaknefs, till her child quickened; after which the proceeded reafonably well in her pregnancy to the end of nine months ; and then her child was alive, and every thing right, as the midwife thought. She fell in labour, which lafted, with prover 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 regular throws continued twenty-four hours more ; but to no purpole, fave the discharging of some 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 matrix and anus, with fo putrid and deadly a fmell as was extremely naufeous both to herfelf and others about her. Thus the lived for upwards of twelve months, and at that period her pains increasing to excels, flie began the difcharges of the bones, which, to the number of eighty and upwards, the voided wholly by ftool; fourteen the first day, and two, three, or four at a time afterward, for the space of twelve months, or more, with most intolerable pains at the voiding of each bone, efpecially a broad piece of the skull, which occasioned excruciating agony : fo that from her conception to her death, the lingered near four years; during which time never was a more calamitous creature : for three years fearce a day without fuffering most exquisite torture, being also attended with frequent faintings, a continual want of appetite, and an-almost perpetual loofenefs, infomuch that it was miraculous how the lived, not eating in all that long space fo much as would have fultained a fucking child ; even the very liquids at length not lying a moment on her ftomach ; by which means the became quite emaciated, and difinal to look at, not being

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being able to move from one pollure 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 received it partly from the poor woman herfelf, and partly from my wife, who visited her frequently during her illnefs.

In the fame Transactions, No: 485, p: 121; we find a letter from Mr. Francis Drake, surgeon, F. R. S. to Martin Foulkes, Esq. concerning the bones of a foctus discharged through an ulcer near the navel.

S 1 R,

HAVING a call from hence into Lincolushire lately to fee a patient; the apothecary who attended him informed me, amongst 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 represented 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 James Burman, labourer, at Scawby, near Brig, in Lincolnshire, was about twenty-nine years of age when she married. About two years after, when the had had a child at full time, the conceived 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 between two and three years. The woman then grew very hig of another child; which preffed fo much upon the lump as to give her great uneafinefs. However, the went on to her time with her double burthen : and three years and a quarter after the accidental fall fhe was delivered of a live child at full growth: from which time the grew worfe and worfe, with violent pain about the navel; and an inflamed tumour appeared near the part. Upon application to a neighbouring furgeon, fomentations were used, which produced a suppuration at a small 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 difeharging a fætid purulent matter for three or four months longer. About a year or more after her last delivery, the woman was fuddenly feized in the night-time, and a hardish mass of flesh, 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. foctus about four month: growth. At this time the woman was much, emaciated, occasioned by the large discharge of pus from the wound; and . what is much more extraordinary, whatever the eat or drank came halfdigested through the opening; white bread, or better diet, came through in that manner; but coarfe rye-bread, or fuch like, were not digested at all; for which reafon the poor woman must inevitably have perished, had the not been supported by a charitable gentleman's family in the village with diet fit for her miserable circumstances.

She continued to difcharge her excrement in this manner for fix months, and then that fymptom left her; after which the ulcer was kept open other fix months, when it dried up of itfelf naturally, with a very firm but finall 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 full health. I had the above account of her cafe from her own mouth, attefted by the furgeon who attended her. I faw the bones of the fœtus in Mr. Charlefworth's posseful on, perfectly white, and, I believe, not one wanting. The woman farther told me, that nine months after the wound

PART II.] SMELLIE'S MIDWIFERY.

was healed, file was delivered of another live child at full time, but with great difficulty. The whole time that the bones of the foctus may be fuppofed to have laint in the woman's belly, was about four years and a half. Thus, Sir, I have drawn up the account as well as I can, but very inaccurately. I have purpofely omitted terms of art, in order to make myfelf better underflood by those who are not furgeons or anatomists. There are feveral particulars in the account which I cannot reconcile to any natural laws that I am acquainted with. However, as the truth of the whole is incontestible, it shows most evidently what wonderful things nature can do with proper allistance.

In No. 486, p. 131, is related a cafe and cure of a woman from whom a foctus was extracted that had been lodged in one of the Fallopian tubes, fent from Riga by Dr. James Mounfey.

NUMB: II: CASE I.

Of miscarriages proceeding from the separation of the placenta, and a distention of the collum and os uteri.

A WOMAN; in the fecond month of her fecond pregnancy, flarting out of bed in furprife, felt fomething as it were give way; and inflantly mifcarried, with a large hæmorrhage that foon ceafed.

CASE II:

I WAS, about nine o'clock at night, called to a woman three months gone with child, whom I had formerly delivered. In the morning fhe had been seized with a flooding, in consequence of a fall down stairs; upon which the was put to bed; bled; and took fome tincture of roles, with fyr. e meconio, and the difcharge abated a little; but returning with greater violence in the evening, a gentleman of the profession; who lodged in the house; prescribed another venæsection, together with flyptic medicines, fuch as the tinct. antiphthific: alum. and fang: dracon: When I arrived, the was exhaulted, faint, and pale, the os uteri being clofe, though the had the appearance of flight 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 fluffed the vagina tight with fine tow dipped in oxycrate, which immediately flopped the difcharge: I then prescribed an anodyne draught, with five drops 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 ftrong that the tow was forced through the os externum, together with the abortion, about the fize of a goofe-egg, and fome coagulated blood. I have fince fuccefsfully used the fame 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 distending the uterus, brings on labour-pains.

C. A S E III:

A WOMAN, ten'weeks gone with child, was taken with flight pains and a flooding. The os uteri would hardly admit the tip of the forefinger; nor did the opening increase, though the difcharge grew more vior 12 F f

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lent at every pain. The patient being exhausted by the great loss of blood, was directed to take pill. Matth. gr. x. in confequence of which the pains and flooding abated. Toward morning the enjoyed fome relt, and fell into a breathing fwcat; and, next day, was much easter, her pulse being raifed, and the discharge having acquired a pale colour. On the fecond day it was no longer of a red hue; and the next day, while the fat on the pot making water, the focundines flipped away without pain, the membranes having been broke, and the embryo almost entirely diffolved.

She had twice before mifcarried in the third month; and in fix months after the last of the two miscarriages, conceived again. As the formerabortions had probably been owing to a coffive conftitution and hard straining at stool, she was bled fix weeks after conception; and the fame evacuation, to the quantity of fix or eight ounces, twice repeated, at the interval of a month. At the fame time, the was directed to take frequently at night, elect. lenitiv. zij. or two spoonfuls of the ol. amygdal. d. mixed with an equal quantity of the fyr. violarum, fo as to procure an easy 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 still alive. In the fifth week of her next pregnancy, the was bled to the quantity of eight ounces; but neglecting to undergo the fame evacuation at the period of another month, and being exposed to some severe exercise, she was taken with 2 pain in her back; of which she was relieved next morning, by losing eight ounces of blood from the arm. However, she happened to over-strain herfelf again; and the pain returned with a flooding, which occasioned a milcarriage in the fourth month.

CASE IV.

I WAS called to a gentlewoman who had been feveral years in a bad flate of health, occasioned by frequent collections of matter fomewhere about the outfide of the uterus ; which discharging itself 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 water and in going to flool; which the imputed to her old diforder. She had felt fome fymptoms of pregnancy, fuch as fickness and retching in the morning; but, as the menstrual discharge was regular, she could not think herself with child. Neverthelefs the pains increased, and she 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 ; circumstances which plainly proved that the placenta still fitmly adhered to the uterus; and as it was impossible to introduce the hand, I thought it adviseable to leave it to come away of itsclf, especially as the patient was free from pain. A clyster was administered ; after the operation of which the took an anodyne draught of aq. cinnam. ten. & fyr. de meconio, and enjoyed good reft that night. But her pulse being rather too flow, I prefcribed the following draught to be taken three 3ifs. Pulv. contrayerv. com. Dj. Castor. fal. volat. succin. ā gr. v. Syr. croci. q: f: f. hauftus; 8va. quaq. hora fumend.

By this julep a flight fever was produced; on the fifth day a flooding began, and the placenta being feparated, was eafily delivered. The floodng being at first pretty violent, was restrained by repetitions of the anodyne draught; and before the fecundines came away, she received a clyster every night. After this miscarriage, she enjoyed a better state of health than before.

A N 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 must die, had 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 inftantly of a flooding, occafioned by a violent feparation of the placenta. Thefe inftances ought effectually to caution practitioners against using violence, either when the uterus is but little distended; or when the placenta adheres too firmly to be separated with moderate force.

CASE VI.

I WAS called to a woman four months gone with child, on the eleventh day after the eruption of the fmall-pox. She was then taken with 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 ftrainings, I broke the membranes that were pufhed down with the waters. This expedient ftayed the flooding; the foctus 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, l. iii. p. 139, there is an account of a woman who had the fmall-pox before the 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 delivered 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 Transact. No. 493, p. 235, are fome accounts of the foctus in utero being differently affected by the fmall-pox; by William Watfon, F. R. S. alfo at No. 337, p. 165. *Vide* La Motte, observ. 129.

CASE VII.

I ATTENDED 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 directed to take hartshorn jellies, with firong red wine; and afterwards being feized with labour-pains, and an increase 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 pushed down with the waters, these list were pierced with a pair of feisflars; and the waters being discharged, the uterus contracted fo as that its vessels no longer poured forth their contents, and came in contact with the body of the child, which was delivered when the pains returned. About one-fourth of the placenta was then k f a maciated,

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emaciated, and covered with clotted blood, which had taken the form of a white thick membrane, and lay betwixt it and the nterus; while the reft of the placenta was plump, red, and covered with fresh grumes of blood. The emaciated part had been feparated at the beginning of the flooding, and the other in time of delivery. The child was alive, but very finall, confidering it was born in the feventh month.

CASE VIII.

Communicated in a letter from Mr. Jordan, at Folkstone.

THE woman was four months gone with child; had been troubled with a flight flooding at times for the fpace of three weeks, and mifcarried of the foctus about an hour before Mr. Jordan arrived : and he underflood 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 fhe had bearing pains that frequently recurred, together with a flight flooding, which, however, was very inconfiderable. He directed her to drink frequently a little caudle, and prefcribed an opiate; by which her fpirits were recruited, and the pains for the prefent removed: but thefe foon returned after fhe had enjoyed fome reft.

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 without fome difficulty. Immediately after this feparation, the woman was eafed of her pain; but fome time elapfed before the recovered her ftrength. Many cafes of this kind have occurred in my practice.

When the hæmorrhage was altogether flayed, or continued in fmall quantity, after the delivery of the focus, the fecundines commonly were expelled by the after-pains. But when the woman's ftrength was in danger of being impaired by the flooding, I always endeavoured to bring them away with my fingers; and when these would not reach them, employed the blunt-hook for the fame purpose : nay, when both these expedients failed, I have reflrained the flooding by preferibing opiates from time to time; and afterwards have found it more eafily brought away, if it did not come of itself.

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 kept open, and irritated by the protruded part, fo as to occafion every now and then a pain which helps to feparate 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-hook : but even this method has failed, and a draining has continued for feveral days. I have opened the os externum fo as to introduce my hand into the vagina; and infinuating two fingers into the uterus, have feparated the adhesion. Then, if I could not pull down the placenta with my fingers, I have introduced the hook along with them, and turning the blunt point above the feparated cake, extracted it without farther difficulty, taking care all the time that the point was towards the placenta, and did not touch any part of the uterus

uterns. I have tried to extract it with the polypus forceps; but feldom effected the extraction without difficulty, becaufe this inftrument takes more room, and is not fo eafily managed.

There is very rarely occasion for any affistance of this kind, which should never be used except when the patient is in danger from long-continued drainings.

CASE IX.

Communicated by the Jame gentleman.

A WOMAN about five months gone with child, was taken ill with a flight flooding, which was rettrained 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 or fix days, labour coming on, the was fafely delivered of the focus and fecundines by the labour-pains ; but it was a long time before the recovered her ftrength.

CASEX.

I WAS called to a woman who was feized with a pretty large hæmorrhage, 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 was called, 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 ftrongly comprefied by the uterus into a confiftence of a feirrhous 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 recovered, and afterward bore children. In this cafe the placenta, inftead of increasing and forming a mola, according to the notion of fome old writers, was fqueezed into a fmall, round, compact fubitance, almoft as folid as a cartilage.

CASE XI.

Communicated by Mr. Hengeston, in a letter from Ipswich.

HE was called to a woman in the fourtcenth week of pregnancy, found her much weakened by a flooding, and was told fhe had been four and twenty hours in that condition : on touching, he felt the body of the uterus almost even with the os internum, the os externum forward above the pubes, and the fundus uteri backward, and close to the lower part of the refum 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 little open, broke the membranes, membranes, in hopes that by diminishing the contents of the uterus he might ftay the hæmorrhage; but, after having waited fifteen minutes to little purpose, he again introduced his hand into the vagina, and with his thumb in the os uteri, and his finger pressing backward against the fundus, he pulled down the first, while his fingers pushed up the fundus above the os facrum; upon which the contents of the womb slipped into his hand.

The patient recovered, but laboured under a prolapius vaginæ, occafioned by a former fevere labour. She is now again with child; and finding the uterus lying in the fame position, he delires my advice, in order to prevent another miscarriage from the preternatural lowness 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, *wide* 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 observat. 385, describes a miscarriage from a woman being too much shaken in a coach.

He attended a woman who had mifcarried au 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 fœtus being very fmall, and quite thrivelled, had for that reafon 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 do fo, than to offer violence to the womb, by dilating fo much as was neceffary for extracting this foreign mafs. This misfortune was owing to the woman being too much thaken 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 fœtus of three months, which had been dead eight or ten days, as appeared by its corruption. 'The midwife, for want of fufficient knowledge in her bufinefs, being incapable of bringing away the after-birth, fo exceflive a flooding was excited by its retention in the womb, that the woman muft have run a great rifk of her life, if the had not fpeedily delivered her of it, and fo put a flop to the flooding; after which fhe did very well.

In observ. 694, we find he delivered a woman of the after-birth of a fmall focus of two months, of which she had miscarried three hours before without any manifest cause; the after birth being retained in the womb after the expulsion of the focus, occasioned such a flooding, that the woman had several times fainting fits, from which the recovered as soon as he had delivered her of that foreign mass; for the flux then ceased, and the woman did very well. This was the eleventh child of which she had miscarried.

In obferv. 477, he fays, he attended a woman who was near the brink of the grave, it being the third day fince fhe 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 it, becaufe of the great difficulty fhe found, as fhe 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

the womb was quite clofed when he faw the woman. It turned at length to a molt virulent putrifaction, which caufed a continual high fever, with two or three exacerbations every day, accompanied with faintings and other fyinptoms utual on these occations. But for all these diforders, and a bad diarrhæa besides, she recovered her health, after a most grievous and toublesome fit of sickness for five weeks. He had fome years before attended the fame woman, when she was extremely ill in the like manner, after another mile rriage, where the after-birth had been likewise left behind, the midwise not being able to bring it away; and it was expelled by suppuration like this last.

In observ. 550, he tells us he delivered a woman of a male infant, five months and a half grown, who was still alive, though the mother had laboured under a moderate flux of blood, which was almost continual, for the space of two months, increasing at last to such a degree as to hazard an abortion.

In this fituation, he advifed the woman to keep her bed, or at leaft her chamber, that fo fhe might, if pollible, preferve her great belly to the end of the term. But, inflead of hearkening to his good advice, fhe undertook a journey in a coach, which was the direct way to deftroy her infant, who lived but half an hour, though the mother was as well after he had delivered her, as if fhe 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 travelling. This brought upon her pains in the belly, which lasted 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 first fight it was the foot, took no care, but drew it out as far as the fhoulder, 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 pushed 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 frait, and too dry for him to introduce his hand without violence, in order to turn the child, he judged it more prudent to trust nature with the expulsion of it, than attempt it with a too forcible extraction ; plainly forefeeing, that fince it was very fmall, it might eafily come away in the fame pofture it was in, when the womb 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 staid to attend her, missing the opportunity, let the womb close of itself, 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 force, as he was defired when he first came, the violence he must have used in dilating the orifice, fo as to be able to introduce his hand, might have been very prejudicial to the mother, whom he preferved by prudently committing this business to nature, for reasons declared above.

In obfervat. 28, he tells us he attended a woman fix months gone, who, for eight days paft, had a moderate flux of blood, in which were fome clots, occasioned by the shocks of a violent cough, which had enlarged the orifice

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of the uterus to a finger's breadth. For this reafon he told her fix would certainly mifcarry in a little time, although fhe felt no pain at prefent, becaufe he was affured, from the opening of the orifice and difcharge of blood, that it was impossible for the agitation of fo vident a cough not to accomplish the mifchief it had begun. The event answered his prognostic; for the next day the woman mifcarried of a child, which lived but a day and a half.

In observat. 164, we find; that he attended a woman who had miscarried three hours before of a dead child of four months. 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 aceident, began to void a little blood. From that time the never felt her Infant move, but had the misfortune to lofe it without the after-birth; which rentained behind, the midwife not being able to bring it away, becaufe the womb clofed immediately on the expulsion of the child. Having himfelf examined whether there could be any means found out to eafe this woman, and having difcovered that the orifice of the wordb was only open enough to receive one finger, he judged it the fafeft way at prefent to trult nature, and postpone 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 difeafe. So he deferred it till the next day, when, finding the womb much more dilated, he happily delivered her of her burthen; and though the had at that time a fever upon her, the did very well afterward:

In observat. 308, he writes, that he attended a woman who just before miscarried at the end of two months and a half, of a small focus no bigger. than a bee, which nature had expelled with a confiderable quantity of blood, which had been preceded by a distillation of reddish ferosity for feveral days. When he was called to deliver her of her after-birth, he found the womb was entirely shut, 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 promise her from the extraction would have been beneficial. For this reason he thought proper to trust nature with the businefs; which was not accomplished till the twelfth day after, the foreign mass lying all the while in the womb, and was then expelled half suppurated, after which the woman did well.

The principal caufe of this abortion, as he fuppofed, was a great coffivenefs in the time of pregnancy, which in this woman was fo extraordinary; that fhe was fometimes fifteen whole days without going to ftool; fo that the great efforts fhe made to eafe herfelf of excrements, exceffively baked and hardened by fo long a ftay; did at the fame time very forcibly comprefs the womb, which might 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 cafes are from La Motte.

Obfervat. 129. The fmall-pox which raged in Valognes fome years ago, was more fatal than general, most of those that caught it dying of it. Among others, a lady of distinction, fix months gone with child, or thereabout, fell ill with it. All went exceeding well; the fever was moderate; the pultules large, raifed, and white; when on a fudden she was taken with a convulsion: in lefs than half an hour the pustules 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 convultion came on, and the died.

Obfervat. 151. A young woman that lived two leagues off, having reached the fifth month of her pregnancy, found herfelf ill, as the thought, with the colic. Her mother fent for him in hafte, lest she should be in labour, as the really was, for he found her brought to bed of a child of five months, who was still alive when he came. As the placenta had followed, he left her to the care of her 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 : fhe came off as well this time as before. Being a third time with child, the was exceedingly watchful over herfelf, to do nothing that could produce a mifearriage. He bled her three times in the fix first months, and kept her to a very regular moistening diet. She carried 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 than ufual, the refolved to be still more cautious the next time. To that effect, he bled and purged her twice, after 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 moiftening diet, not fuffering her to eat any thing roafted, nor to drink any strong 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 labourpains, 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 foon after. He afterward brought away a large placenta, common to both children, and fie foon recovered. He has feveral times fince laid her of one child only, whom the has carried her full time without any inconvenience.

What follows is from Gifford.

Cafe 118. He was fent for to a poor woman in Knaves-Aere, the wife She was about fix months gone with child, and had been of a finith. feized with a flooding fome days before, for which her midwife had lately come to confult him; when he ordered an aftringent mixture to be taken, to the quantity of three or four fpoons, now and then, and a quieting aftringent draught, to be continued every night, in cafe her flooding did not itop. He likewife defired they would give him an account of her the next day; at the fame 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 measure, the defired effect for the prefent, he heard nothing farther for two or three days. Her flooding, however, returned again, her husband came to him, and defired he would visit her; which accordingly he did, and, upon examination, found the os internum not dilated enough to receive the end of one finger, and not eafily to be dilated; wherefore he advifed a repetition of the medicines before preferibed; and, on the next day, the man called again to tell him that the draining continued, but was not fo violent ; however, as the became 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, he advised a conti-Gg 12 nuancé

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muance of the mixture and draught. On the third day, the midwife fent him word, that the draining continued, 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 hand and bring away the foctus.' Upon his touching, he found an opening large enough to admit the end of three fingers; wherefore he endeavoured to dilate it with his fingers, and firetching them wide from each other, he got in his thumb, and afterwards his whole hand. The first thing he met with was part of the placenta feparated from the uterus, and passing his hand by it he felt the child inclosed in the membranes, and floating in the waters. He readily broke the membranes with his fingers, and paffing his hand, within them, foon met with a leg, which he drew out, and taking hold of it with a foft cloth, he gently pulled toward him, at the fame time advifing the woman to affift by bearing flrongly down. By this method he prefently extracted the foctus 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, being before in part, if not wholly, feparated from the uterus; the flooding flopped immediately on the delivery.

Mr. Giffard gives a hiftory, in cafe 157, of a fœtus above fix months old, contained in a facculus without the womb, and protruded through the anus. *Vide* Extra-uterine fœtuses, collect. v.

Mr. Chapman, in p. 206, gives the cafe of a child that was delivered at the anns 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 hæmorrhages of the womb, flopped by pulv. flyp. Helvetii. vol. iv. p. 38.

To these it will not be improper to add some examples from Hoffman.

In part, iii. p. 183, obferv. 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 exposed herfelf. There followed immediately a violent flooding; after this the laboured under an uterine hæmorrhage, which fometimes flopped for a little, but immediately broke out again; her belly fivelled, and the had frequent palpitations, which made her fuspect 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 fwelled in the evening, and the felt a weight in the hypogaltric region.

Various carminative laxatives and clyfters were in vain administered; but after three days use of the caroline mineral waters, the hæmorrhage flopped, and by continuing to use them, the evacuated a great quantity of viscid in atter, both by flool and urine, and the fweiling of her belly fubfided. Wherefore the entered the bath; and after once bathing, had violent pains and spafins, just like those of a woman in labour, and evacuated from the uterus fome flefth-like membranous bodies, commonly called molas; after which the perfectly recovered her health.

In part iii. p. 183, obferv. ii. we have the cafe of a young woman of a lax habit of body, who had mifearried four times in the third and fourth months of Ler pregnancy. Being with child a fifth time, fhe was bled in the third month. About her ordinary time of aborting, fhe found fpafms, flatulencies, and comprellion of her loins and abdomen, fuch as fhe was ufed to have formerly when fl.e mifearried; which, however, were removed by fome antifrafmodic

antifpaf nodic medicines, by embrocating her abdomen with his balfam and vitiæ, and by the application of toafted bread to the umbilical region. She had fome fpafms and pains in the feventh month; but kept her burthen 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 full time.

In obferv. v. p. 185, we find that a ftrong woman, thirty years of age, who had had two live children, but afterward fuffered fix abortions, two in the feventh and four in the fifth months, being again pregnant, had an uterine hæmorrhage in the third month, and was again threatened with abortion; but by letting blood immediately, the hæmorrhage ceafed; by repeating it often, and drinking nothing but pure water, taking fome of the teltaceous powders, and by applying Barbett's faponaceous 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 used to do.

In part ii. fect. i. chap. v. De Uteri Hæmorrhagia 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 discharge of blood from the vagina, which continued, in a small degree, for fourteen days. But from using too violent exercise, the was taken with' a profuse flooding, which threw her into faintings: after trying both internal aad external remedies to no purpofe, he being called in to relieve the patient in this extremity of danger, immediately fluffed the vagina with tow, dipped in a folution of the caput mortnum of vitriol; by which the difcharge was in a very little time flopped; and by corroborating diet and medicines, her ftrength was recruited. The lint, three days after, was extracted with great difficulty, from its being matted and concreted with ' the grumous part of the blood; on which followed alfo a fmall flefh-like fubstance, with a little, uncoagulated blood. By taking proper medicines, with a nourilhing diet, the patient recovered; after which the was again pregnant, and fafely delivered. He, in that part of his works where he treats 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 venæfection when neceffary, together with aftringents, opiates, corroborating and laxative medicines, according as the exigence of the cafe requires.

I find in practice, that the flooding commonly diminifhes, 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 flows, that those who run into extremes, either in hurrying off the placenta in all cafes, or in leaving its expulsion always to nature, err; for a practitioner ought to vary his method in these cafes, as well as in others, according as it thall appear most preper; as in the foregoing cafes of abortion from Mauriceau.

NUMB. III. CASEI.

OF MARKS AND MUTILATIONS.

WHEN I defired the woman, mentioned in No. ii cafe vii. to put out her tongue that I might examine it, in confequence of her complaint ing that it was dry andparched, I observed fomething on the tip of it like a

plum,

plum, 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 blue reddifh, or purple colour; and the feels an hard griftly fubftance like the ftone in the middle; in winter it thrivels and decreafes, and next feafon refumes the fame appearance. It feems, when her mother was with child of her, the longed for fome plums, which the cheapened, but would not buy, becaufe the 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 trantient touch, the child was affected in the fame place.

CASE II.

I DELIVERED a woman in the eighth month, of a child, from the outfide of whofe little finger on the right hand, hung an excretcence about the fize of a nutmeg, refembling one of the finall potatoes that are used for feed, both in the colour and little indentations on its furface; and fome of the women affirmed the mother had longed for that foo before delivery. The tumour dropped off in a few days, in confequence 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 retained no marks, although the mothers had been frightened and furprifed by difagreeable objects, and were extremely apprehensive of fuch confequences.

One woman in particular, when three months gone with child, was furprifed, upon opening the door, by a beggar thrufting a bare flump in her face; a circumflance which alarmed her to fuch a degree, that fhe made herfelf and all about her unhappy, being fully pertuaded that her child would be born with the fame mutilation; and indeed fhe could fcarce be convinced of the contrary, when fhe felt the child's arms after it was delivered.

Schenckius, in lib. iv. De Gravidis, from p. 621, to 625, relates feveral observations on the strange effects produced from the imaginations of pregnant women, occasioned by the different accidents that happened to them in that state.

In the Phil. Tranf. 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 diffemper from her hufb nd the next time of being with child.

Vide Ephemerides, ann. octav. observ. 46, and 55, anni 9 and 10, obs. 23. Decuriæ secundæ ephemeridarum, ann. prim. observ. 40.

Mauriceau, in p. 288, and obferv. 348, relates his having delivered a woman of a child whofe head was of a monftrous figure, being all made up of face, as it were, with great gogling eyes. It had towards the occiput a flefhy mafs, almost like the placenta, which feemed to come out of the cerebellum and nape of the neck. The mother had felt this child move in her womb 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 monstrous fhape to her having fixed her eyes fleadfaftly on the figure of an ape.—*Vide* Philof. Tranfact. No. 456, p. 341, and No. 461, p. 764.

I have delivered many women who were prepoffeffed with things of this kind before delivery, which I have never yet found to happen as they imagined. I 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 afking her before fhe knew of it, fhe acknowledged that nothing extraordinary had happened to her during her pregnancy.

COLLECTION XIII.

Of the fituation of the child during pregnancy, the figns of conception, and premature labour.

NUMB. I.

OF THE SITUATION OF THE CHILD IN UTERO.

[Vide Part i. Book iii. Chap. i. and ii.]

DURING a fucceffion 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 cufes 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 pufhed it out after the membranes were broke. A woman in the fixtn mo, th was brought to bed of twins, and both children prefented with the breech, and were to delivered one after another, by the labour-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 occasion to diffect another subject of the same kind, and found the child nearly in the same fituation. In both cases, according to Mr. Oald's allegation, one ear was to the pubes, and the other to the facrum.

From these subjects, some very accurate, useful, and curious plates, are published.

Dr. Camper, professor, of Franker, in Friesland, opened a woman, in whom the child was fituated in the fame manner; and I find the head prefenting fo in almost all natural labours.

Dr. Monro flowed me fome drawings of a fubject, which his father had the preceding winter diffected in the public theatre; tables of which are juft publifhed in Phil. Tranf. of Edinburgh. This was a woman faid to be fix months gone with child, in whofe uterus the fœtus lay in a longifh form, with the legs and breech to the fundus, the head refting on the brim of the pelvis, and the fore parts of the child to the back part of the womb, though turned a little toward the left fide. He obferves, that though this fœtus, and thofe examined by Dr. Hunter, were found 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 third, fuppofed to be in the feventh month, diffected by his father and himfelt.

La Motte, in chap. xxi. book i. gives three instances of pregnant women whom he had occasion to open.

In the first, 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 the back formed a kind of vault conformable to the fhape of the womb, and the placental was between them.

In the fecond, who being five months gone, fell into a fainting, of which fhe did not recover; the child lay acrofs the uterus, with the legs bent up.

In the third, who died in the fixth month, of a fluxion upon her break, 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 labours.— Vide tab. vi. vii. viii. and ix.

From Dr. Garrow, Barnet.

THE few following remarks I lately made on opening the body of a young woman just dead of a flooding; in the beginning of the eighth month:

1. The uterus, diftended by the waters, placenta, and fœtus, appeared pretty much of an oval figure, prominent in the middle, and gradually flattening toward each fide.

2. The fundus reached rather above the middle fpace between the navel and ferobiculus cordis, preffing up the omentum and intellines, fo as to make it eafily appear why umbilical ruptures are lefs troublefome to women in the laft months of pregnancy.

3. The thickness of the uterus was about a quarter of an inch, as near as I could guess, without measuring.

4. The child lay on its left fide, the head prefenting; confequently the face and fore parts turned toward the mother's right fide, though not directly, but rather inclining toward the os pubis.

5. The placenta adhered to the os internum nearly by its middle or thickeft part; in which part I perceived a laceration upward of an inch long, and penetrating almost through the fubstance of the placenta.

6. There was not the least appearance of blood in the navel-string, except a few drops just by the child's belly; and I believe the whole quantity in mother and child, at that time was very inconsiderable; but I had no opportunity of examining farther.

NUMB. II. CASE I.

OF THE SIGNS OF CONCEPTION.

I VISITED a woman who was attacked by a fuper-purgation in the third month of her fecond pregnancy, and dreaded a micarriage. 1 prefcribed opiates; by which her diforder was immediately rettrained; but I could not diftinguifh the period of her geflation 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 flomach, and retching, which fhe had before experienced, were the fymptoms from which fhe concluded herfelf with child. The loofenefs was foon flopped; and fhe felt the motion of the foctus in about fix weeks, when the other diforders abated. Vide tab. vi.

C'ASE II.

I WAS confulted by another patient, who had a regular difcharge of the menfes, without retchings, but fufpected herfelf of being pregnant, by feeling a greater fulnels about the third month. This, fhe fuppofed

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posed might proceed from the bulk of the uterus, which kept up the intestines, and in five or fix weeks after, her fuspicion was justified by the motion of the child.

CASE III.

MIDWIFE confulted me about a woman fuppofed to be in the eight h month of her pregnancy. I was told fhe had been feized with a flooding, and in danger of milearrying in the fifth month, when a gentleman of the profession was called, and used the common methods of restraining the discharge. This happened twice after; and bleeding, with restringents, 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 proposed that the other gentleman should be called to the confultation; but was given to understand that he was difmissed, and would never be employed again in the family. The os internum was fmooth; 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 these observations, I declared; that if the was at all pregnant, fhe could not be above three or four months gone; and fhe affured me, that if the was not in the eighth month, the could not be with child at all. I then concluded that the had been obstructed 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 first attended her, had, a few, months before this occasion, affirmed, that he could at any time difcover whether or not a woman was pregnant, and tell the period of her gestation within, eight days of the exact truth.

CASE IV.

11 1 1 Mar. 5 45

MIDWIFE of Mary-le-bonne workhouse follicited me to go thither. A and fee a girl about twelve years of age, supposed to be eight months gone with child, who was fent by the overfeers of the parish to lie-in at the houfe. She told me, that feveral gentlemen of the profession, as well as midwives, had examined her; that one of them had offered to deliver her gratis, and some others had made great, interest to be prefent at the occation. I accompanied the midwife; and, first of all, examined the external parts; when finding the paffage to finall, that I could not introduce the tip of my little finger, I made no helitation in declaring that the had never converfed with man. I found a large fwelling betwixt the ferobiculus cordis and the navel, which appeared to be the liver very much enlarged. I he uterus it could not be ; for I pushed my fingers quite below it. and preffed in the parietes of the abdomen almost to the vertebræ of the loins. The girl had been advertifed, and the matron had got money from numbers who went to fee her; and notwithstanding my declaration, the farce was cartied on, until people began to fufpect the deceit, when the was fent to one of the hospitals for the cure of her hepatic diforder.

A LADY fent for me to preferibe medicines for a favourite maid who was obstructed; and from whose florid countenance I immediately suspected there was something extraordinary in the case: for women troubled

CASEV.

troubled with fimple obstructions of the catamenia, are commonly, in the fixth month of the obstruction, of a pale bloated complexion. With great difficulty fhe was prevailed upon to let me examine the state of the uterus by the touch; when I plainly felt the stretching of the womb in the vagina, as well as the circumscribed tumour a little below the umbilicus. By which circumstances, I was certified of her being fix months gone with child.

In many cafes, however, when the woman is fat, it is impossible to judge from this firetching till about the feventh or eighth month.

La Motte, in chap. xi. book i. gives several cases on the infallible signs of pregnancy in the last four or five months of uterine gestation.

Schenckius, in lib. iv. De Conceptione, p. 617, 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 women pregnant after the age of three-fcore.

Hildanus, cent. 2, observ. 60, mentions a girl of eleven who had the menses; and in observ. 61, affirms, that this discharge continued in a woman to the age of seventy-eight.

In the Memoirs of the Academy 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.

OF PREMATURE LABOUR.

WOMAN, imagining she had gone her full time of a first child, sent A for the midwife, who had attended her three days; the husband came, and defired me to order some medicines to quicken the pains; or, if I. thought it more necessary, to go and fee his wife. When I went to the house, I found the midwife at work in stretching the parts, and, to use her own phrase, in making room for the child to pais. I fat down to wait for a pain, during which I might examine; but nothing of that kind happening, I introduced my finger into the vagina, and felt the uterus quite light, without the least distention ; nor was any stretching perceptable in the abdomen (vide tab. v.) I then declared the was either not at all pregnant, or very young with child, to the aftonifhment of all the women, who could scarce 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 her having been weakened by large discharges from scrophulous ulcers. However, in eight months after this period, the was delivered of a full grown child; and, in all probability, the uneafinefs of which fhe complained, when I was called, was no other than breeding complaints.

A YOUNG practitioner in midwifery having attended a patient all night, fent for me in the morning, and told me that the os uteri was a little opened, that the membranes were broke, and the head prefented; that the woman had flight pains, and he had tried to firetch the parts to no purpofe. Upon 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 first

first child; and, according to her account, she wanted three weeks of being 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 loofenefs, with which fhe was attacked the preceding day. In confequence of my advice, the was bled (her pulle being quick) and took an opiate, which carried off the pains, though in three weeks the real labour came on.

CAS E III_{*}

TATTENDED a woman come to the full time of her first child : the had for three days been fubject to flight pains, which recurred every now and then : the os uteri was a little opened, but thick ; and as the head prefented, though the membranes had broke too foon, I refolved to allow tome 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 first, the patient would have been delivered before this period. The flight pains therefore no fooner returned, after the effects of the opiate ceafed, than the began to ftretch the parts, and fatigued the woman to 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 fronger, fhe was fafely delivered.

BOUT fix in the morning, I was called to a woman in her first preg-A BOUT fix in the morning, I was cannot to a uteri was confiderably nancy. 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 feveral different positions. Her skin being hot and dry, and the pulse full and quick, she was bled to the quantity of ten ounces ; a clyster 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 composed 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 still very tight. I ordered the opiate to be repeated; fhe enjoyed good reft; and the parts being gradually diftended, the was delivered next morning.

COLLECTION XIV. Of natural Labours.

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NUMB. I. CASE I.

OF THE OS INTERNUM OPENED BY THE WATERS AND MEMBRANES. [Vide 'I ab. x. and xi.]

WAS befpoke to attend a woman in her first child, and received a call about the middle of the ninth month, when the complained of pains in her head and back; and I understood she was costive, and troubled with a tenefmus, which the millook for labour-pains. After having 244

ing felt her pulfe, which was quick, fat by her fome time, and put the neceffary questions to the nurse, 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 circumstance I declared she 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 breadth of half-a-crown; the membranes with the waters were pufhed down by every pain, and the child's head refted 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 every two hours; and, by the time I was called, they had grown stronger, and came faster. As she was still costive, I prescribed an emollient clyfter, 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 position, but allowed her to walk about, and undergo her pains either fitting or lying in bed. The membranes having fully opened the os internum, and being pushed down in a globular form to the lower part of the vagina, gave way during a pain, while she stood leaning on the back of a chair; a large quantity of waters was discharged, and the child's head funk down into the pelvis. This was her first child; she was of a strong 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 these parts being pretty well distended, and every thing fast approaching toward delivery, she was 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 externum was widened more and more; the perinæum lengthened to three fingers breadth, and the fundament to two: the crown of the child's head turned gradually upward toward the upper part of the labia, the forehead being backward at the lower part of the facrum and coccyx : advancing still, the back part of the neck was felt below the pubes; then the perinzum being firetched to four or five fingers breadth, very tenfe and thin, I applied to it the flat part of my hand during each fucceeding pain, in order to prevent its being toren, and let the head be delivered in a flow manner, by rifing up with an half-round turn below the os pubis. The fame pain that delivered the head, forced down the fhoulders, which I helped eafily along, with my 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 extracted by pulling gently at its lower edge, and at the funis. The child was a ftrong healthy boy, and the mother recovered to my with.

I have given a particular detail of this cafe, in order to make young practitioners acquainted with the common method of acting in natural labours, thefe being the circumstances that ufually occur to an healthy woman in bearing her first 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 ftronger, the delive y is the fooner effected. The os internum is very different in different women, with regard to the thickness and rigidity; and, in proportion to thefe, requires more or lefs time for the dilatation. In forty-nine cafes out of fifty, the membranes break after the os internum is fully opened, fo as that they are protruded into the middle or lower part of the vagina. After these are broken, the pains frequently abate for a fhorter or longer time, and then growing stronger, 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 most fafely effected by flow gradual pains; for there is feldom occasion to lubricate or use other means for stretching the parts. Indeed, in natural , labours, almost our whole business confists in encouraging the patient, and preventing the fourchette, or frænum 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 do the work. We ought not, therefore, to fatigue the patient by putting her too foon in labour, according to the common phrase, but to attend carefully to the operation of the pains; and in most cafes we thall have nothing elfe to do but receive the child.

I DELIVERED a woman in the beginning of the feventh month, of her third child. Her hufband had died fuddenly about twenty days before, and upon that occafion fhe had felt the child move with great violence, and this was fucceeded by a kind of tremulous motion; after which fhe 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 fhe was immediately delivered of a dead child, which paffed eafily along, though its abdomen was much fwelled,

OF THE OS EXTERNUM OPENED BY THE MEMBRANES.

B EING 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 firong, returning at fhort intervals, forced the membranes and waters with the child's head through the os externum; even the fhoulders, and part of the body, were delivered before the breaking of the membranes, which then gave way, tearing all round from the edge of the placenta, and remaining upon the head and body of the child, which H h 2 could not breathe till I had stripped 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 she had not undergone above fix pains when I arrived; and before the pupils could have notice to come fhe was delivered. She expressed great joy when the knew the child was born with a cawl, which the dried and carefully kept, in full perfuasion that her child would never fuffer extremity, either by fea or land, while it remained in her poffeffion.

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 flood leaning on the back of a chair : then the membranes breaking, were toren all round before the shoulders were delivered, and remained flicking on the head: the fame pain brought forth the body and the placenta; and I arrived just in time to prevent the child falling on the ground.

I ATTENDED a perfon who fell in labour in the latter end of the eighth month : fhe 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 protrusion of the membranes, which at last were forced down about the fize of a child's head, without the os externum. While the head was retarded in this fituation, the weight of the waters firetched 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, fhe was delivered of a child, which had been dead eight or ten days, with a fwelled abdomen, which had retarded the birth.

BEING called, in a great hurry, to a gentlewoman in labour of her first 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, I opened them in a hurry, and perceived that the child had been dead ten or fourteen days.

MY affiftance was demanded for another patient, come to the full time in her first 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 fwelled.

DELIVERED a woman in the eighth month, whofe os externum was opened by the membranes and waters which opened by the membranes and waters, which were pushed out a great way: the child's head was likewife partly protruded, but yielded a very uncommon

uncommon feeling to the touch, as if there had been another fet of membranes and waters, within which I thought 1 felt the loofe bones of the fkull. When 1 broke the membranes, I felt the hairy fealp, and difeovered an hydrocephalus in the child; which was foon delivered, and lived fome days, though, from its continual moaning, it feemed to be in great agony. *Vide* collection 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 paffage 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 fuperflition.

NUMB. III. CASEI.

Of the os internum opened by the child's head and membranes. Also of the es externum opened 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 the was not immediately delivered, the would lofe her opportunity; and indeed this apprehension was the cause of my being employed. After she had undergone two or three pains, I found that the head had gradually increased the dilatation of the os internum ; that the membranes were not yet broke, and that the midwife had certainly miftaken a finall discharge 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 dilated, I felt the membranes very fmooth. Another pain forced the head down to the lower part of the pelvis, when the membranes fplitting upon the head, I could plainly diffinguish 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 small quantity difcharged when the body was delivered.

Both before and fince this occafion, I have been 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 defeended low down, and then I have perceived them protruding the membranes at the back part of the pelvis. *Vide* tab. xiv. and xv.

CASE II.

I ATTENDED at a labour in which the child's head came down in the fame manner as that deferibed in the preceding cafe: the child was fmall, and came eafily along; but I 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.

NUMB. IV. CASEI.

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.

CASE II.

MY attendance was befooke for a woman in her firft labour, by her friends, who were afraid it would be difficult, becaufe fhe was pretty much difforted, had been fickly during pregnancy, and took but very little nourifhment. For two or three days fhe had been fubject to flight 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 externum. 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 fhe 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 fponge 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.

CASE III.

A BOUT fix or 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 fhe 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 the rofe from bed, till one night, being told the child was very ill, the ran up to the nurfery in a hurry, and this motion entirely carried off 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, notwithflanding all my expedition, have been delivered 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 firft child.

COLLECTION

PART II.]

SMELLIE'S MIDWIFERY.

COLLECTION XV.

Of lingering or tedious labours.

NUMB. I. CASE İ.

FROM THE RIGIDITY OF THE MEMBRANES WHEN PUSHED DOWN WITH THE WATERS.

BOUT 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 usual, rested against the superior part of the os pubis; and during every pain, a Imall quantity of the waters pushed 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; because, when I attended her at the birth of her first 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 the continued without any fleep or reft, fubject to pretty fevere pains at the interval of five or fix minutes, till about feven in the morning, 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 pushed down. I introduced my finger into the vagina, and, after two or three unfuccessful attempts, burft them during a ftrong pain, by which means a large quantity of waters was discharged, and the head forced down to the middle of the pelvis. This being effected, the was foon delivered of a fine child, though smaller than the former.

CASE II.

A BOUT three in the morning I was called, by a midwife, to a woman in labour of her first child. I understood that the pains had been ftrong and frequent, and that the friends being uneafy, recourse was had to my advice and affistance. 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 standing, and in various other positions, had enjoyed little or no reft for two nights, and was very coffive. I prefcribed 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 head, which being touched by the finger, fwam up and returned : a circumstance that plainly proved there was a great quantity of waters. I assured the patient and her friends, that the child prefented fair, and that there was no apparent danger ; then I advised the midwife to put her to bed, without exposing her to any farther fatigue, or defiring her to force down, except when compelled by the pains; and in cafe she should not otherwise enjoy some rest, I prescribed the following draught :- R Aq. alexit. simp. 3xiv. Tinct. thebaic. gt. xv. Syr. e meconio. zij. m. and directed her to drink frequently

frequently of weak warm caudle, to promote a diaphorefis. Next evening I received another call, when the midwife gave me to understand that she had taken the draught, in confequence of which, fhe had enjoyed refreshing reft, and a plent ful fweat, although fhe 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 membranes pushed down with a large quantity of waters to the lower part of the vagina; and when the pain abated, felt the head pretty low. It still moved easily up and down; whence I coneluded, that either it was fmall, or the pelvis not narrow; yet, as this was her first labour, I waited two hours, in hopes that the membranes would advance farther, and open the os externum; but they remaining in the fame fituation, I imagined their rigidity retarded the delivery; and breaking them in this perfuasion, the child was foon delivered.

CASE III.

BEING called, by a midwife, to a woman who had been four-and-twenty hours in labour of her first shild. I four had been I twenty hours in labour of her first child, I foun the mouth of the womb largely open, the waters pushing down the membranes in a large globular 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 she was afraid of breaking the membranes too foon, becaufe the fulpected that the woman was a little difforted, and the pelvis narrow : however, the friends being concerned at her being fo long in labour, and a discharge of blood supervening, the had thought it necessary to alk advice. After having twice again examined during pains, and maturely confidering the cafe, 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 not be engaged, and that there was a great quantity of the waters. Though the had not to all appearance loft above twelve ounces of blood, yet, as the discharge seemed to increase, 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 stretch by the membranes and waters, she became perfectly eafy, had no pains for a long time, and the flooding entirely cealed. Before the membranes were broken, fhe had felt a ftrong propenfity to fleep, which the pains prevented; but now I ordered her to be undreffed, put in her naked bed, and kept quiet, that, if poffible, fhe might enjoy fome natural repofe. She accordingly refted, and was refreshed. As for the blood she had lost, she was rather benefited than injured by the difcharge; for the had for fome weeks complained of a drowfinels, fulnels 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 should 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 strong and healthy, nothing else was necessary but that she fhould frequently drink weak caudle, broth, or barley-water, to encourage and support a plentiful perspiration. I was afterwards informed, that she flept feveral hours, and upon the return of the pains, was fafely delivered by the midwife. CASE

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fore

CASE IV.

ATTENDED a gentlewoman, though not in labour of her first child, who fuffered all the complaints defcibed in the preceding cafe, except the flooding. By my advice, she lost eight ounces of blood, and was immediately relieved: but the labour being retarded by the rigidity of the membranes, though the child's head was pretty far advanced in the pelvis, they were broken; and in two or three pains after, the woman was delivered.

NUMB. II. CASEI.

FROM THE RIGIDITY OF THE MEMBRANES WHEN NOT PROTRUDED BY THE WATERS.

A BOUT four o'clock 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 fpace of three hours, and the had every pain expected the delivery, which the fuppofed was retarded by the child being large and dead. I found the child's head about two-thirds down in the pelvis, and during every pain perceived the difeharge of a very little water, which I at first mistook for those of the uterus. But, upon the ceffation of a pain, raifing the head a little with my finger, I observed a large quantity was difcharged from the bladder; and when I felt for the hair of the featp, I found the membranes fmooth and unbroken. I again raifed the head, that the patient might difeharge 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.

N EAR the fame time I attended a woman in labour of her first 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 my finger all round the under part of the child's head, felt the ear at the os pubis, and diftinguished the futures, I concluded that the head was not large, nor the pelvis narrow; but that this delay must proceed from the rigidity of the membranes. These, therefore, during a pain, I endeavoured to wear thin, by rubbing them with the edge of my nail, which was smooth and fhort: accordingly, in time of the next pain, they fplit upon the head, which was immediately 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 membranes; but as I have frequently known tedious and lingering cafes proceed from too much precipitation in breaking the membranes, I choose rather to err a little on the other extreme, provided the patient is in no danger from weakness or flooding.

NUMB. III. CASEI.

FROM THE MEMBRANES BREAKING TOO SOON.

MY attendance was bespoke to a patient who was very fat and unweildy. She had been taken with very flight pains, and the membranes breaking, a great quantity of waters was discharged; upon which, being called in a great hurry, I found the mouth of the womb open to about the breadth of a fixpence, and thin though rigid. She had been, five years be-

fore, delivered of a child which followed immediately after the rupture of the membranes, and fhe now expected the fame expeditious delivery. It 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 triffing, and the child prefented fair, I encouraged her to exert her patience, to banificall anxious thoughts, and avoid all manner of fatigue; and as the was coftive, I preferibed a clyfter, 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 womb was 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.

G. A S E II.

I WAS called to a poor woman who had been two days in labour of her third child, 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, which probably had brought on fome flight pains. She had been attended by a perfon of no education or practice in 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 paticnt exceffively, by ordering her to walk about and bear down with all her force at every inconfiderable pain.

The woman being quite exhausted, I directed her to be put to bed and kept quiet, and leaving a gentleman and midwife, who at that time were my pupils, I defired them to give her five grains of the *pilulæ faponaceæ*, and repeat the dofe once or twice, if there should be occasion. By these means the was freed of pain, procured rest, and recovered her exhausted spirits. She continued easy for two days, except in time of sight pains, which every now and then recurred, and during which, a small quantity of the waters continued to be discharged: but on the third night, the pains increased, the os uteri became foster, and was more and more dilated by the child's head, which advancing, plugged up the parts, so as that the dribbling of the waters ceased; and in a very little time the woman was fafely delivered.

CASE III.

Soon after this occafion, I was called to a labour by a gentleman of very little experience in the practice of midwifery, who, taking me afide, told me he was juft going to deliver a woman whom he had attended a night and a day, and that, as his character was not established, he thought it advifeable to have a perfon of the profession p refent. Indeed I was struck with his apparatus, which was very extraordinary, for his arms were rolled up with napkins, and a sheet was pinned round his middle as high as his breast. His intention was to turn the child and deliver footling; and he desired me to examine the woman, that I might fatisfy the friends of the necessity he was under to take this step immediately, for the prefervation of the mother and the fruit of her womb. I selt the os internum open to the breadth of a crown-piece, and the head presenting; and after having fully informed myself

myfelf of every circumstance necessary to be known, I concluded that the Jabour had been rendered tedious from the premature rupture of the membranes. I then gave the gentleman a friendly advice in private; in confequence of which he laid afide his working drefs ; and as the woman, who was strong, had enjoyed no rest the preceding night, an opiate was admi-nistered. She slept feveral hours, and was refreshed, and toward morning, the pains returning, delivered the child and fecundines. I have affifted 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, weeks, 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 perhaps he owing to laxity.

CASE IV.

Communicated by Dr. Urban, of Richmond, in Surrey.

HE was called to a woman in labour, near Norwich. The waters had 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, the found the child's head prefenting. He directed her to be put to bed; prefcribed an anodyne draught, in confequence of which she had a refreshing sleep 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 use them but when they were absolutely necessary, The fame method he has fuccefsfully used upon feveral occasions.

CASE V.

WAS called to a patient in labour of her first child. The membranes broke in the evening, and she had frequent pains all night; but would not allow me to examine till about eight o'clock next morning, when I found the child's head refting above the pubes, and the os uteri foft and lying loofe, as if it had been pretty largely opened before the membranes broke: but the vagina was very straight, as well as the os externum. She enjoyed no reft all night, the pains grew excessively strong and frequent, and the child's head had not advanced in the leaft. Being apprehenfive from her wiolent complaints of the abdomen, that the uterus would burft by fuch strong; efforts, I prefcribed a parcgoric draught to allay the violence of the pain and procure dleep. As the had been used to take opiates, the dole amounted to thirty drops of the tinct. thebaic. with zij. fyr. meconio, and fome fimple cinnamon-water. This prefcription had the defired effect, the flept feveral hours, though every now and then her fleep was interrupted by a ftrong pain. About twelve 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 still in the fame fituation, the draught was repeated. This kept her tolerably cafy till eight in the morning, when the pains returning, it was again administered : for the same reason it was repeated at fix in the evening, and four in the morning. About eight I was permitted to examine the third time, when I felt the head pitched down in a lengshened form to the middle of the pelvis : but the lower part of the vagina was Ail

fill very narrow, as well as the os externum, and time was required for dilating both, and for pushing down and elongating the head, which was large. At the beginning of labour she had some loose stools, but made no water for three nights and two days; fo that when the effect of the opiate ceased, the diftention of the bladder aggravated the agony of her fufferings, yet no perfusiions 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, she endeavoured to suppress, lest I should 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 almost delivered, I had just time to prevent the laceration of the external parts. I felt a languid motion in the veffels of the funis; but could not, by all the usual methods, bring the child to breathe. I brought away the placenta, found the uterus in a right state, 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-twenty hours, becaufe the could neither reft nor faeat without it; her pulse flagged, and her spirits funk, and no other cordials had the least effect. After delivery, her urine was obstructed for three days, and for eight weeks afterwards she lost the power of retention, which however returned with her ftrength. As for the child, it was probably loft by her timorous disposition, in consequence of which the refused all assistance at the latter end of labour.

ÇOLĻECTION XVI.

LTAN, NOT BARR, BURRING THE SPANNER AND AND

The second statement of the se

Of lingering and tedious labours.

NUMB. I. CASE I.

FROM THE FOREHEAD BEING PREVENTED FROM TURNING BACKWARP INTO THE LOWER CONCAVE PART OF THE SACKUM.

[Vide Tab. xiji. and Sect. iii. No. iii.]

WAS called to a woman who had been long in labour of her first child, and was naturally of a weak and delicate conflictation. On that ac-L count, the midwife 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 pains were flight and at long intervals; and that fince the discharge of the waters, the child's head had advanced flowly to the external parts, where it had flopped for a confiderable time. This account I found true upon ex-amination. A clyfter had been administered with good effect, and the patient had enjoyed a good deal of fleep between the pains : but finding her pulse rather too weak and languid, I directed her to take two spoonfuls of the following mixture every half hour :- B. Aq. cinnam. ten. 3iv fs. Spirituof. fal. vol. c. c. Bls. Conf. cardiac. Bj. Syr. fimp. 3fs. m. 1 attended fome time without perceiving that the head advanced to open the os externum. I felt one of the ears at the os pubis, the lambdoidal croffing the end of the fagittal future at the lower part of the right os ifchium, and the fontanel on the opposite fide at the upper part of the left. 1 perceived that the pains had not force enough to move the occipat from the right ifchium

chium, fo as to pafs under the os pubis, and the forehead from the oppolite fide to the hollow of the os facrum; I therefore, during the next 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 being now toward the fides and lower part of the pelvis, the vertex immediately advanced forward, gradually opening the os externum during every pain; and the woman being fafely delivered, the placenta feparated flowly, and was difcharged in about half an hour.

CASE II.

BEING called to a woman in labour of her first child, I found a mid-wife and a male practitioner in waiting. This last gave me to underftand, that when he came, the patient had been a long time in itrong labour; that after the mouth of the womb was fufficiently opened, the membranes 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 he concluded there was an absolute necessity for opening the head. Upon examination, I found the head in the fame polition as that defcribed in the preceding cafe, or rather higher in the pelvis. The pains were tolerably ftrong, the woman's pulse was much more quick than is usual, even in time of pains. She complained of a violent head-ach, laboured under great drought, and her skin was very hot and dry. Of these complaints, however, the was relieved by loting ten ounces of blood from her arm. told the gentleman, that as the patient was ftrong, and the pains continued. we ought to wait the efforts of nature, without using either forceps or fillet, which I never applied, except to affift nature when the was too weak. When I examined again, I found the head lower down, 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 an extraordinary fize. But the fillet having galled and toren part of the hairy fcalp from the occiput, was the occasion of a violent inflammation, of which the child died in a few days. The mother, however, recovered tolerably well; and fince that time has had pretty eafy labours.

CASE III.

A MIDWIFE fept for me to a very fat woman. near the age of forty. in labour of her first child. The membranes had been long broken before I came; and I understood that the friends, being uneasy, had fent for a gentleman of the profession, who, in attempting to deliver the patient, faid he had broke his instrument, and went home in order to fetch another; but instead of returning, he fent a message, importing, that he was obliged to go and attend another woman. Her pains being strong, the os externam and lower part of the vagina were gently dilated; and the forehead being moved backward at the fame time, the head advanced, and the woman was delivered in about half an hour after I arrived.

There was a very fmall opening through one of the parietal bones of the child's fkull; yet none of the cerebrum was evacuated, though a great deal of blood was difcharged, notwithftanding the application of proper compresses; and the poor child died moaning in five or fix hours after its birth. C A S E

CASE IV. I N the courfe of the fame year, I was called by a gentleman who had formerly attended me for a thort time in the 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 applied; that he had pulled with great force, without being able to move the child's head; and that the woman was in fuch imminent danger, he did not believe she could live until we should reach the house. Notwithstanding this declaration, I found her pulse frong 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 understood she was used to have tedious labours, proceeding, in all probability, from the Imall fize of the pelvis. I privately convinced the gentleman of his error; observing, that as the pains were good, no force ought to be applied; that the forceps would never fucceed, except when the head was come lower down ; and even then ought not to be used, unless the woman was in danger from weaknefs and want of labour-pains. We prefcribed a mixsture, to amuse the patient ; and in about five hours she was fafely delivered.

NUMB. II. CASE I.

Of the vertex prefenting, though low in the pelvis, the forehead being toward the os publis.-Vide tab. xx. xxi.

A MIDWIFE fent for me to a woman whom the had attended near two days, and whofe former labours had been very eafy; from which circumftance the inferred, that the child was of an extraordinary fize. 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 increased I withdrew my hand, which was followed by the child's head, and the woman was in a little time delivered.

CASE II.

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 flowly. 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 firong pain; the vertex protruded the perinæum and posterior parts, in form of a large tumour; the forehead, face, and chin, turned immediately out from below the pubes; and the vertex was raifed upward, with an half-round tura, from the perinæum and posterior parts. The child was fmall, and cried as oon as the head was delivered, even before the body was extracted,

NUMB. III.

FROM THE PRESENTATION OF THE FONTANEL.

HAVE often been concerned in cafes where I found the fontanel prefenting: they commonly proved tedious and lingering, though the delivery was generally effected by the labour-pains, and the child's head fometimes fometimes appeared in form of a fow's back, a circumstance, in all probability, owing to the preflure it fustained in the pelvis, while it advanced in that unufual way. Sometimes, in these lingering labours, I have, by raifing up the forehead with my fingers, altered the position, fo as to let the vertex fink lower down, particularly in the following instance:---

CASE 1.

ATTENDED 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 usual, but rested at the upper part of the pelvis. As she had been long fatigued with fevere and fruitlefs pains, I examined the position of the head more narrowly, 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. I then found that the vertex was to the left fide, and the forehead, with the face, to the opposite part. As she lay in bed, upon her left side, I could not so easily affist in that polition; she was therefore turned on her back, her head and shoulders being raifed a little with pillows, and her knees held up toward her belly, as the lay acrofs the bed; for her pains were also ftronger while fhe continued in this posture. 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 increasing, I withdrew my hand, and found the vertex link down to the lower part of the left ischium. In a few pains the forehead turned backward, the hindhead came out below the pubis, the os externum was gradually opened, and the child fafely delivered.

NUMB. IV. CASE I.

FROM THE PRESENTATION OF THE FOREHEAD. [Vide Tab. xxii.]

B EING called to a woman in labour, by the friends, who were unealy at the lingering eafe, and imagined the midwife kept her in hand, becaufe fhe had been feveral times delivered by another midwife, and her labours were eafy, I underftood the os uteri was fully opened, and the membranes had been broken feveral hours; that the child prefented fair, and the pains were ftrong; 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; but when the head advanced, in confequence of fucceeding pains, and protruded the perinæum and pofterior parts, I felt the eyes 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 femicircular 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 fugar-loaf, the vertex being prefied flat, and the face and hairy fealp very much fwelled.

The mother for feveral days after delivery, complained of great pain in her back and at the pubes, which feemed to proceed from an over-firaining of the ligaments at the juncture of the bones; but by lying quiet, and drinking plentifully of warm and weak diluting fluids, the enjoyed profuse fwcats, and foon was freed of these complaints.

CASE II.

THE following year, I affilted in a fimilar cafe, where the head was high up, and had long refted at the brim of the pelvis. At first I thought it prefented fair; but as it did not advance for feveral hours, notwithstanding the strong pains, and I was told that the patient had been delivered of her second and third child before the midwife could reach the house, I concluded that the head did not prefent in the common way, and introduced my shand flowly into the vagina, as she lay on her left fide. Finding the forehead prefenting with the face to the right ilium, I pushed it up to that fide, and as I withdrew my hand a little, still preffed it up with my fingers, that it might not return before the next pain, which forced down the vertex from the opposite fide; the head defeended gradually, and the woman was delivered in a few pains.

NUMB. V.

FROM THE PRESENTATION OF THE EARS.

I HAVE known a few cafes in which the ear prefented; and when the child was not large, the pains commonly altered the polition, by forcing down the vertex, and the patient was eafily delivered. This was commonly the cafe, too, when the fontanel prefented: but when the head was large, the labour was more tedious and lingering; upon which occasion I ufually pushed up the head fo as that the vertex might advance, particularly in the following inftance :--

CASEI.

B EING called by a midwife to a woman who had been long in labour, I introduced my hand into the vagina, and finding the ear prefenting, could perceive, when I raifed the head, neck, and fhoulder, 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 have required great force to turn the child fo as to bring it by the fect i I therefore raifed the head higher, forcing the forehead upward, and the vertex coming in as I withdrew my hand, the child was prefently delivered.

NUMB. VI. CASE I.

FROM THE FRESENTATION OF THE FACE, SHOULDER,

AND BREAST:

[Vide tab: xxiii.]

DEING called to a woman who had been 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 exceflively fwelled, that at first I imagined the breech prefented; until examining a fecond time with my fingers. I felt the mouth, eyes, and nole. When the friends afked if the cafe was dangerous, I precipitately anfwered, that there was no great danger but that of lofing the child, which might be faved if the mother was foon delivered. They replied, that provided the mother was fafe, the child was of no great confequence, as the had already more children than the could well maintain. The patient told me, the felt the child fir every now and then; and indeed I felt its motion by laying my hand on her belly. However, as every body prefent declared againft my giving any affitance, and were fatisfied with my telling them the woman was in no immediate danger, I left

[PART II.

I left her to the care of the midwife, who indeed had opposed 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-string or the contraction of the lower part of the uterus round the neck, or before the shoulders; for the head was pulled up as the pains abated.

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This visit 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 pla-centa, 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.

CASE II.

I EXAMINED one of the poor women, attended by my pupils, in labour of her first 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, I defined the gentleman to let the breech be pushed 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 fhould be effected. In about three hours I was called again; and underftood from the midwife, that after the mouth of the womb was fully opened, the child defcended very fast, prefenting at first with the cheek, but that now the plainly diftinguished the face. When I examined, I found the chin down to the lower part of the left ifchium; and turned up below the pubis? In a few pains, the os externum being fufficiently dilated, the forehead and vertex turned up from the perinzum, and the woman was immediately delivered of a fmall child, before any of the pupils arrived.

GASE III.

[Vide Tab. xxv.]

SOME years ago, I was called to a woman 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 first when I examined I was of the fame opinion ; but during thenext pain, which was very strong, I found the head was pushed down much lower at the back part of the pelvis. Feeling at that part, with my finger, for the lambdoidal future, I plainly distinguished the face, and the chin backward at the coccyx. In two pains more, the face and forehead protruded the posterior parts in form of a large tumour, the perinæun and fundament were greatly lengthened, the vertex and occiput flipped 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 child. Her pelvis was large, and the ufed to have very quick labours.

CASE IV.

ATTENDED a gentlewoman, whom I had twice before delivered, after tedious labours, proceeding from the largeness of the children and the small fize of the pelvis. When I was called on this third occasion, the mouth of the womb was open to about the breadth of a crown-piece, the Kk memoranes

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membranes and waters were very tenfe during a pain, but being relaxed, when that abated, I felt fonte part of the child, though more unequal than the apex of the head. Having waited till by degrees the membranes had fully opened the parts, and were pulled down to the lower part of the va-gina, I examined again, and felt the child's face prefenting through the mem-branes. Reflecting upon her former tedious labours, and forefeeing that if I allowed the head to come along in that position, the patient would fuffer, and that if I should bring it by the feet, the child might be lost, I directed her to be laid on her back, with her breech to the foot of the bed, and fupported with pillows, between a fitting and a lying pofture, on pre-tence that the labour would be favoured by fuch a fituation. While a woman fat behind fupporting her head, and one on each fide held up her legs and knees, I gradually dilated the os externum during the pains, until I could introduce my hand into the vagina. In pushing it farther up, I felt the membranes break ; but, my hand still 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 forehead to the left fide, I raifed this last upwards, grasping the vertex, which was now lowermost, with my fingers and thumb. I then gently withdrew my hand a little, to let the waters pass, that the uterus might be contracted, and keep the child in that polition. Finding this expedient fucceed, I drew forth my hand, when the patient thought the child was delivered. However, I convinced her that what I had done was abfolutely necessary, and that fhe was now in a fair way of delivery, provided fhe would exert that cou-rage and patience which had fupported her in her former labours. Nor was I difappointed in my prognostic; for this delivery was much quicker than those she had experienced before.

CASEV.

MY attendance was required to a woman in labour, by a midwife who had formerly attended my lectures; the informed me that the mouth of the womb was largely open; and although the membranes were not bro-ken, fhe could find fomething like a hand and fingers: fhe likewife told me, that the woman was ftraight made; that fhe 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 every thing as fhe defcribed, 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, should it be brought by the feet, I refolved to feize the opportunity of trying to bring in the head, fince the membranes were not broken. 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; be-fides, I loft a great quantity of the waters, by being obliged, after I had pushed up the shoulder, 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 vertex being turned down, and one of the ears toward the vertebræ of the loins, I withdrew my hand, when the forehead with the right-hand was to the right, and the occiput to the left fide of the pelvis, and the pains ceafed for fome time, as ufual, after the membranes are broken. Having how encouraged the woman, by telling her that the child prefented fair, I took my leave; and in about three hours fhe was fafely delivered, though not without very ftrong and fevere pains.

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. C. A S E VI.

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 pelvis. On this occafion, fhe had been fubject to frequent though flight pains the day before I faw her; toward morning the membranes had broken, a fmall quantity of the waters was difcharged, and fhe had no more pains till 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 uterus, although the membranes were broken; and going to work as in the two former cafes; brought in the vertex, with great difficulty, occafioned by the flippinefs 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 these cases we are feldom called in by the midwives before the membranes are broken, otherwife we should, in preternatural positions, have a better opportunity to bring in the vertex, when the pelvis is so small, or the head so large, that the child cannot be faved, if brought by the feet,

CASE VII.

Communicated by Mr. Hargood, in a letter from Chatham.

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 if chium. 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, the 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.

CASE VIII.

Communicated by Mr. Cook.

I WAS called to a woman in labour, and felt the child's face prefenting. I underftood the had undergone 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 k ft ifchium. I then, during the pains, endeavouted to raife it to the os 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 over another, and on one fide of the head was a very deep imprefilon formed by the jutting in of the os facrum. The face was very much bruifed and fwelled, and the child dead. I preferibed an opiate for the woman, who had undergone great fatigue; fhe enjoyed good reft, and did well.

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COLLECTION XVII.

Of tedious cafes from the rigidity of the os internum, vagina, or os externum; as alfo from the wrong position of the mouth of the Womb.

NUMB. I. CASE I.

OF THE RIGIDITY OF THE OS UTERI.

WAS called to a woman turned of forty, in labour of her first child, who, though, by her own and midwife's account, fhe had three or L four weeks to go, had been in a kind of lingering labour for two days. At fix in the evening the membranes broke; and as the lived at a diftance, I could not be with her till about four next morning; when the midwife told me, that after the membranes broke, fhe had every now and then a ftrong pain, but that the mouth of the womb was not open as usual to these 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 prefenting. There was an intense heat at the mouth of the uterus, and she complained of great pain in that part, even in absence of the labour-pains. She was of a ftrong and healthy constitution, though of a thin habit : her pulfe was quick, full, and hard ; her fkin hot and dry : fhe laboured under a fevere drought, and I understand she had from time to time fwallowed cordials to affift the labour, fach as white-wine and malt-fpirits. Having confidered the circumftance of the cafe, I concluded that the difficulty of delivery was owing to the rigidity of the os internum, for the had lain chiefly on the bed, without having been fatigued ; that the head was but fmall, becaufe it had pushed the mouth of the womb fo low down, and that the fever was owing to an indiferent use of spiritubus liquors. In confequence of these reflections, the was bled at the arm to the quantity of twelve ounces, directed to drink plenty of barley-water, 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 refift and abate the violent force of the pains. By these means she was greatly relieved; enjoyed between whiles gentle flumbers and plentiful fweats; the mouth of the womb turned more foft and yielding, and when largely dilated, I pushed it gently up with my fingers all round the head, which at last glided easily 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 usual time, and advised her to abstain from any violent exercife for a confiderable time after fhe fhould be able to walk, in order to prevent a prolapfus uteri,

CAS.E II.

I ATTENDED a patient, near forty, in labour of her first child, who had been afflicted with a prolapfus uteri during her pregnancy. When I was called, the had fome flight pains, the mouth of the womb was very little

little open, feemed thin and rigid, and was fituated more forward in the vagina than is commonly the cafe; the child's head was prefied low down, and feemed fmall, but I could feel no waters. Her pulfe being very quick, fhe was bled to the quantity of cight ounces; an emollient and laxative clyfter being injected, difcharged a great quantity of hard fæces; and as fhe had enjoyed no fleep that day or the preceding night, I preferibed an anodyne draught, and directed her to drink plentifully of barley-water. Thefe expedients fucceeded to my wifh; fhe 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 fenfible 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 externum by degrees, was fafely delivered.

CASE III.

S OON after, I was befoke to attend a woman who had been fubjeft to tedious labours. When called, J 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 backward 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 great pain from this protrufion of the lower part of the womb by the head. However, fhe 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 I thut up the mouth of the womb, betwixt the pubes and head, which afterward made very quick advances, and was foon delivered.

A WOMAN I attended in labour of her firft child, whofe belly was pendulous, and hung forward over the pubes (vide tab. xii.) When I came fhe was pretty ftrait-laced, the pains were ftrong, the membranes pushed 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, defired 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 head advanced lower in the pelvis; but the os internum remaining ftill backward, and the head preffing down the lower 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.

CASE IV.

CASE

CASE'V.

B EING called to a patient not above fifteen years of age, in labour of her first child, I found the head of the child prefenting, and that the membranes and waters, after having flowly dilated the os internum, advanced quite to the os externum, which I hoped they would open alfo; but they broke just as they arrived at the part. Then the head advanced, and pussed out the lower parts, in form of a large tumour, the perinæum being very thin, and stretched to the extent of five fingers. Nevertheles, the os externum was very little dilated, and the pains were fo strong, that I was obliged to prefs the flat part of my hand upon the parts, to prevent the fourchette from being toren, and, by resisting the force of the head against the os externum, allow it time for gradual relaxation. The paina, continuing to return every five or fix minutes for the space of an hour, without any alteration. I found it necessary to preferibe an opiate to restrain them, that I might have time to lubricate with pomatum, and dilate gently with my fingers. By these means the os externum was gradually itretched fo as to allow the head to pass without any laceration of the parts.

CASE VI.

A BOUT the fame time I attended another patient, though not fo young, and the labour proceeded much in the fame manner; but after having guarded the parts, in order to prevent laceration during a few pains, I withdrew my hand to take fome pomatum, for lubricating the external parts. In that interval a ftrong 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 owing 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 labour of their first children, I always turn up and pin the upper fheet to the bed-quilt, as the child's head advances to the lower part of the pelvis.

CASE VII.

Communicated by Dr. Auftin, of Edinburgh.

HE was called to a young woman in labour of her first child, who had acute pains from Tuesday to Saturday night, when she was delivered. All that time the child's head was squeezed in the pelvis, and for twentyfour hours the bones rode one another in the vagina. About two hours before she was laid, he attempted to introduce the forceps, which, however, he declined using, because the pains became stronger, and he imagined the child was dead. Indeed, to all appearance it was still-born; but in a few minutes he was agreeably surprised to find it alive, and both the child and the mother did well. Two days after delivery, he extracted from the woman five English pints of using with the catheter.

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SMELLIE'S MIDWIFERY.

COLLECTION XVIII.

Of lingering or dangerous cafes, from weaknefs, anxiely, frights, floodings, loofenefs, convultions, fevers, &c.

NUMB. I. CASE I. FROM WEAKNESS.

WAS called to one of the poor women whom my pupils attend, in labour of her first child. She was young, and fo excessively weak, from want of nourifhment, that when we were called the feemed really expiring. Another patient, who lived in the fame house, faid, this young woman was an entire stranger, who had been taken in as a lodger the preces ding night, and feemed to be in a flarving condition ; and at last the poor creature herfelf owned, that the had received no fustenance but water for three days. She had been fubject to fome flight 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 weakness fo alarming, that I immediately fent for a roll and fome ale, which was qualified with a little fugar, nutmeg, and geneva; to which last I supposed the was accustomed, and therefore judged it was a better cordial than any other I could have prefcribed from an apothecary's shop. Of this nourishment I directed her to take a very little at a time; and accordingly her exhausted spirits were gradually recruited, infomuch, that although the cafe was lingering and tedious, fhe was fafely delivered by the labour-pains.

CASE II.

A MIDWIFE called me to a woman of a weak habit and melancholy disposition, accasioned by the excessive flooding which had attended a former delivery. She had become pregnant again before the recovered her ftrength, was feldom able to rife out of bed, and her ftomach was fo weak, that it could receive or digest but very little nourithment. The midwife told me her pains were fo weak the was afraid the could not be delivered without affistance; that the had enjoyed little or no fleep for the fpace of forty-eight hours, but had been subject to frequent faintings, from which the was with difficulty recovered; and, lastly, that the mouth of the womb was foft and a little open. I telt her pulse very low; and examining during a pain, which feebly protruded the membranes and waters, 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 also informed, that as the had an aversion to all forts of nourithment, the eat very little, and feldom had paffage in her belly, and was commonly coffive.

I directed her to take frequently a tea-cup full of chicken-broth, and, between whiles, a little of the weak cinnamon-water. A clytter of the broth being thrown up, emptied the inteffines; then half a p nt of the fame, in which two grains of opium were diffolved, being injected, I defired that the might be kept quiet in bed, in hope of procuring her fleep, and take an ounce of ftrong cinnamon-water every four hours. By these means the faintings went off; fhe flept pretty well that night between the pains; and these gradually increasing, fhe was fafely delivered in the morning. C A S E

[PART II.

CASE III.

A TTENDING 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 yomit up every thing fhe eat or drank; by which complaint fhe was reduced to a ftate of excellive weakness from want of nourishment.

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 a coach.

By this method fhe recruited a little; and with the affiftance of fome mint and antihyfteric water, fhe could keep a little broth in her ftomach. I managedher much in the fame manner as that described in the former cafe in time of labour, which, though tedious, ended happily.

NUMB. II. CASE I. and II. FROM ANXIETY AND GRIEF.

A TTENDING a gentlewoman in labour of her first child, who, a few days before, had been fo much affected with the fudden death of her husband, that she was feized with frequent faintings and great anxiety of mind, found, when I arrived, her pains were very weak, and the membranes had boken even before the mouth of the womb was much dilated. Although the child's head was small, the continued three days in a kind of labour; yet by encouraging and supporting her with cordials and nourifhing things, and indulging her as much as possible with rest, the was fafely delivered of a child; which feemed to have died foon after the heard the melancholy news of her husband'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 fo low, and the cafe was fo tedious, that I was afraid fhe had not ftrength to undergo the delivery; yet by the management defcribed above, fhe was fafely delivered of a weakly child.

I have attended many other women in labour, whole lives were endangered by great weaknefs, proceeding from various caufes; yet by fuch management they were fafely delivered. Anxiety, misfortune, and difappointment, 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 affects the paffions to a degree of violence or transport, 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, &c. are not attended with violent floodings, convultions, or fevers, the patients generally recover, though fometimes the children are dead. Nay, even when thofe bad fymptoms have accompanied the cafe, I have known both mother and child happily faved.

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NUME. III: CASE I. and II.

FROM FLOODINGS.

WOMAN near her 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 house, as well as from the fatigue incurred by removing the furniture. When I arrived, the fire was extinguished, and I found her lying upon hay in a barn, lofing blood very faft. The mouth of the womb being pretty largely opened, I immediately broke the membranes, which, with the waters, were pulhed down in every pain, and the hæmorrhage foon ftopped: the patient was very cold from the feverity of the winter feafon, and the thinnefs of her covering. While I practifed in the country, I always carried in my pocket some spirit of hartshorn, tincture of castor, and liquid laudanum, in separate bottles. Of these, with the allistance of some brandy and water, I composed a cordial and anodyne mixture, of which fhe took frequently two or three fpoonfuls; and being accommodated with more clothes from the neighbourhood, fhe recovered her natural heat, and at last enjoyed a plentiful sweat, and refreshing repose. The pains were flowly augmented with long intervals; as her pulfe and ftrength returned, the labour advanced; and although it was tedious, fite was at last delivered. Yet her fleep was afterward interrupted by frightful dreams of fire, and the often awoke in a delirium; fo that twenty days elapfed before the 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, these evacuations being impeded by the diffurbance of her thoughts. Her greatest danger, however, feeming to proceed from weaknefs, occasioned 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 the was every now and then subject to shiverings, and laboured under a low weak pulse, I prefcribed repeated dofes of the bark, and the moderate use of French claret, from which the found great benefit.

When labour is brought on, and a flooding occafioned by fuch alarms, fo that the patient is exhausted by the hæmorrhage, this is either diminished 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 woman feized with a flooding in the middle of the ninth month, though no visible cause could be assigned for this hæmorrhage, and she had bore children before with easy labours. As the discharge was not so great as to require immediate affistance, and her pulfe was rather ftrong thin otherwife, I ordered her to be bled to the quantity of eight ounces, and to be kept quiet in hed. Being collive, fhe repeived a clyfter, took frequently two fpoonfuls of a mixture composed of fix ounces of the tincture of rofes, and about twenty drops of liquid laudanum. The flooding abated, and fhe reded tolerably well that night; but when fhe rofe to have her bed made, foine large clots were difeharged with a little pain, and the flooding returned, though it was foon reftrained when the lay down again. In this condition the continued for feveral days, during which, upon the least motion, fome clots, or co-gula, were forced off from the vagina, and followed by a field difcharge, which, notwithstanding all our efforts to encourage her, and support her strength, gradually weakened her constitution. It returning one evening with greater violence, I was called in a hurry, when I found her low and difpirited, 12 L 1 and and

CASE VI.

B EING 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 flopped; that feeling fomething like a flefhy fubfiance come down, fhe had tried to pull it away, on the tuppofition that it was a falle conception, and that thefe attempts were followed by a large quantity of blood. This fubfiance, 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, fhe was delivered of the placenta, which was much lacenated, and a dead child. I have been concerned in many cafes, where the flooding, when inconfiderable, was eafily flopped, and the woman proceeded to the full time.

CASE VII.

From Mr. F. W. at T. W.'s with my answer.

COME time ago I was fert for to a woman after the midwife had made O use of all her art to no effect. Upon enquiry, 1 found she had not gone her full time; the membranes were broken, and there had been, and ftill was, a profuse flooding. On touching. I could find no os tincæ. I then introduced my hand with fome difficulty through the os externum, but could not readily meet with the os tincæ, being oppofed by a foft flefhy fubflance, 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 fland. 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 effusion of blood, together with the foregoing circumstances, I thought it abfolutely necessary to attempt her delivery, by opening the contracted parts, and turning the child; but I had no fooner fat down before her, than, providentially, she had a strong pain or two ; and, to my great furprife, the child was brought into the world (the placenta coming first) inclosed within its membranes. This plainly convinced me of the error of fome who have afferted, that the placenta always adheres to the fundus uteri; seeing, in this case, it was the reverse. With regard to this cafe, the information I should be glad to receive is this :-- Suppose the child had not been born as it was, whether I should have endeavoured to pass by the placenta, or extracted it before the child? And suppose part of the os tincæ is covered with part of the placenta, how to act ?--Vide collect. xxxiii. No. ii. cafe iii.

Anfaver to these queries.

I had a cafe pretty near the fame kind; the placenta adhered to the lower part of the pterus, and as the os uteri began to firetch, that part feparated from the placenta, and then a finall flooding began. When I was called, the patient had fome labour-pains, and on examining, I found the os internum open about the breadth ot half-a-crown, and the placenta prefied a little down into it. As the difcharge was not great, and the woman flrong, I delayed to deliver until the os internum fhould be more open. Some hours after this, I was again called; the flooding was pretty violent; I found the os internum fully opened, and the placenta fully prefenting. I laid the woman on her back, with her thighs raifed ; then introduced

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PART II.]

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 pulie was not fo weak as one would have imagined, confidering the quantity 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 every now and then, when the venured to go abroad; but, by the advice and affiftance of another gentleman, who ws 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 introduce her hand by degrees into the vagina, and feel all around for the edge of the placenta, at which part the might tear the membr nes: the accordingly felt them at the left fide; and a large quantity of waters being difcharged, the child's head advanced, prefling the under part of the placenta to the right fide. Then the pains increased, the head gradually dilated the os uteri, and being fmall, defeended lower and lower, fo that in a few pains the patient was delivered. The flooding abated when the waters were difcharged, and was entirely flopped as foon as the head plugged up the os internum. From time to time I felt her pulfe, which continued in much the fame flate, or rather turned flronger, from which circumflance, I concluded there was very little, if any, internal hæmorrh ge; and her flrength was kept up by her taking frequently a tea-cup full of broth, or wine and water.

was at water -

CASE V. MIDWIFE called me to a gentlewoman, whom the had formerly de-A livered of feveral children. This patient was taken with a small difcharge of blood in the beginning of the ninth month, when I prefcribed venæfection and a clyster; after the operation of which, the received a paregoric draught. But the discharge continuing for several days, though in a small degree, I examined and found the mouth of the womb very foft, placed fo high, and to far backward, that I could not perceive the placenta prefenting, though I telt through the vagina and uterus that the child's head refted against the os pubis. As the uischarge 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, she was attacked with labour-pains, and the flooding increasing, I received another call, when I was informed by the midwife, that the mouth of the womb was largely open, that the waters had been difcharged immediately before my arrival, that the placenta had come low down, but the could feel no part of the child. A throng pain immediately fucceeding, I examined and found the placenta putting through the os externum: and the delivery of this was immediately followed by that of the child, which w s alive, although the placenta came nrit. The midwire told me, that when fhe found the placenta prefenting, the was cautious of touching it with her fingers, remembering, that when the attended my lectures, I nad obferved, that the death of the child, in flooding-cafes, might be owing to its loting blood from the laceration of the cake.

CASE

and her friends in great anxiety and confidentation. 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 th t fome other gentleman of the profession might be confulted for their and my fatisfaction; however, this propofal they declined. Thus left to my own diferetion, and feeling the os uteri very foft, though very little open, I gently introduced the tip of my finger in order to dilate it, and defired the patient to affift my efforts by ftraining 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 Aight pains that returned of themfelves. Notwithstanding feveral attempts, I could not break the membranes, until gradually fretching the os externum during every pain, fo as to introduce my hand into the vagina, 1 tried to advance my finger fa ther up; but not fueceeding, I infinuated the female catheter, 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 womb. She now lay eafy for a long time, without the return of a pain, during which interval fhe was nourifhed and supported by frequently receiving a little broth; but being afraid that there might be an internal flooding flopped 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 adviseable to bring on and encourage the pains, by firetching as before; and, to my with, the parts were more and more dilated, the pains grew stronger, and at last the patient was fafely delivered. During labour I frequently felt her pulfe, which, initead of finking, rather grew ftronger.

CASE III.

A MIDWIFE 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 hæmorrhage was abated : fhe had fent for me, becaufe the found the navel-ftring in the vagina, and the woman was very 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 flopped.

I immediately directed her to take fome of the folution of portable foup; and hot bricks wrapped in flanmel 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 fhe continued fo weak, th t for many weeks after her delivery, fhe was fearce able to walk about the room.

CAS.E IV.

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

I have often known, in fuch cafes, premature labour-pains vanish, and the woman proceed to her full time.

I WAS 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; but that the head was no fooner forced into the upper part of the pelvis, than the patient was thrown into violent convultions, which went off and returned with every pain. She was a flrong young woman, of a florid complexion. This was her first child: her pulfe being full, hard, and quick, ten ounces of blood were immediately taken from her arm: the convultions abated every pain, until they went off entirely; and in about an hour after they left her, the was fafely delivered.

A woman in her third pregnancy, near her full time, being taken with a giddinefs, which was immediately followed by ilrong convultions, I was called by the midwife ; and examining in time of a convultion, found the mouth of the womb open, and the convulsion forcing down the membranes and waters in the fame manner as they are usually prefied down by the labour-pains. She was infenfible, and thefe fits returned every fix or eight minutes. Her pulse 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 consequence of these remedies, the convulsions abated and soon went off; but the was still infensible, and incapable of fwallowing any kind of liquid. The friends being averfe to my delivering her, I defired, that in cafe the convultion thould return, I might be immediately called in order to deliver her, otherwise the would certainly be loft. 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 bleeding and bliftering, 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 conftitution of the weather. Vide part iii, collect, xxxiii. No. iii.

CASE III.

Communicated by Mr. Mudge, of Plymouth.

H E 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 convultions, for which he prefcribed 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 neceffary to fave her life, he examined by the touch; then putting the patient in a proper position, 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 first very difficult to be diffinguished.

After feveral unfuccefsful trials with his finger, he was obliged to defift, in hope that it might be better difposed to dilate by next morning : before which

tions for the space of twelve hours before my arrival. I was told by the midwife, that the was in labour of her first child, though the wanted about three weeks of the full time : but I was not allowed to examine, a circumstance at that time of little confequence, because whether she was or was not in labour, the first intention was to carry off the vomiting and loofenefs, and recruit her lost strength and spirits with all possible 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 straining, she took thirty drops of liquid laudanum in a glafs of brandy and water : but this being immediately 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, moistened 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. Ι likewife felt the membranes, waters, and child's head. The complaints beginning to return, I repeated the last dofe; and in about half an hour after she had taken it, she fell into a found sleep, which lasted feveral hours, and awoke very much refreshed, her complaints being entirely removed. All that day fhe felt no labour-pans; and as fhe was very weak, I directed her to take frequently a fmall draught of pretty ftrong 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 was at last 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 she was eight months gone in her fecond pregnancy. She had been exhautted by the evacuation the preceding day and night; during which she enjoyed no repose : and in the morning, when I was called, I found her pulfe weak and flow, and her extremities cold; and fhe told me, that in firaining upon the ftool, fhe h d fome-thing like labour-pains. I immediately prefcribed the following bolus aud draught :--- R Theriac. andromach. Dij. fumend. cum haustu sequenti.-R Aq. ciunamom. fimp. 3 ifs. Nuc. moschat. 3s. Liquid laudan. gut. v. fyr. e meconio zij. M .- I directed 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 reftore the natural heat, to promote a sweat, and encourage reft. 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 prescribed, her extremities became warmer, her pulse rose, she sell into a breathing fweat, and flept three hours; but being waked by a pain and fielh straining, 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 still very weak and feeble. To obviate this complaint, I directed her to take every now and then fome burnt red-wine, with nutmeg and toast, and in the interval fome chicken broth. She continued eafy the night following: when I called next day, fhe told me fhe had fome flight rains; and I found the child's head lower in the pelvis. The pains increased, and in two hours after I arrived the child was delivered.

I have

troduced my hand into the vagina, paffed up by the placenta into 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 where the placenta has come down into the vagina before the child's head, and was obliged to deliver it firit, but in fuch cafes the child 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 detacned, they all flipped along with eafe, and were fo fuddenly delivered.

CASE VIII.

WAS 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 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 flronger, 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 reit fifteen or twenty minutes before the child was delivered. We now expected the child would be loft from this laceration; but, contrary to our expectation, it was alive, and did well; the mother alfo recovered, though the had loft a great deal of blood, and had fainting fits before I was called.

CASE IX. Communicated by Mr. J-, at F-.

B EING 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 preferibed an opiate that laid her quiet about three hours, during which the flooding abated. But when fhe awoke and began to ftir, it returned, though not to fo 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 fhe was delivered of a live female child, and both did well.

NUMB. IV. CASE I. and II.

FROM LOOSENESS.

SOME years fince, bilious colics, attended with vomiting and loofenefs, being epidemical, I was called to feveral women labouring under thefe complaints at different times of pregnancy; and they were generally removed by washing the stomach and intestines with warm water, and afterwards preferibing opiates. One case, however, was more obstinate. I was called to a woman who had been exhausted and weakened by evacuations

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which time, however, he was twice called in the night, found her in continual convultions, and no alterations in the parts. About noon next day he visited and found her convulted without intermittion, though the force of the fits had not dilated the os uteri in the leaft; neither could her mouth be opened to as to receive any medicine. 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 fearce believe this information, which, however, he found literally true, and fent for his forceps to affift in delivery; but just as he was about to apply them, the head was forced down by the convultions; he then delivered the body, and afterwards extracted the placenta; and the convultions immediately abated.

NUMB: VI. CASE I: and II. FROM FEVERS:

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DURING the time of a pleuritic fever that was epidemical, and often proved mortal if the patient was not plentifully bled at the first 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 great difficulty in breathing; for which the immediately 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 those who were bled too sparingly, or too late, funk under the difease : but I did not venture to bleed this patient to such a quantity on account of her condition. Neverthelefs, as the fymptoms were alleviated, though not removed, by the first venæfection, I followed Synderham's method in preferibing plenty of diluents, and next morning repeated the bleeding to the fame quantity. Upon my first arrival, I had fent for an eminent phyfician, who lived at fome diftance, and he approved of what I had done; advising, that as it would be hazardous to take a large quantity at once from a perfon in her condition, the might be bled the oftener; and this method being followed, in two or three days relieved all her complaints, having prevented a suppuration, perhaps a mortification, of the pleura. Though much exhausted by these evacuations, she gradually recovered ftrength to proceed in her prognancy; 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 pregnbncy, 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 died: her delivery was attended with inconfiderable difcharges, and fhe expired that fame evening.

I have attended in many cases, at different periods of pregnancy, in the beginning, increase height, and declension of fevers; and the patient commonly recovered, if miscarriage or delivery happened at the beginning or declension, provided the discharges were not extraordinary: but when the fever was violent and at the height, the patient usually died; and the child was frequently dead when delivered in the decline of the fever.

NUMB.

SMELLIE'S MIDWIFERY.

NUMB. VII. CASE I. and II.

FROM THE SMALL-POX.

THE observations I have made on fevers will also hold good in the fmall-pox.—I deliveted a gentlewoman who had the confluent smallpox in the fifth mouth of her prognancy; from which the recovered, and proceeded to the full time. No marks of the diffemper appeared upon the shild, which had not been dead many days before delivery; but the head was dropfical, and could not be protruded by the pains until the water was discharged 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 24th day of February; feized with the fymptoms of the fmall-pox, and on the 28th the eruption appeared very quick and fmall. A phyfician from Shréwfbury being called, found them of the confluent kind, with petechial fpots, and preferibed decoft. cort. Peruv. cum elix. vitriol. & tinft. rofar. pro potu communi. She recovered of this diforder, and was, on the 29th of April following, delivered of a dead child, upon whole body the eruptions appeared to have been about the crifis.

COLLECTION XIX:

Of circumvolutions and knots of the funis umbilicalis, contractions of the uterus before the shoulders, &c.

NUMB. I. CASE I. and ÌI.

OF CIRCUMVOLUTIONS. [Vide Tab. ix.]

WAS called to a gentlewoman in the eighth month of her pregnancy, by Mrs. Canon, who told me the labour had been very tedious: the head had been advanced to the os externum for near two hours, but was drawn up again after every pain. The patient being averle to my examination, I advifed the midwife to introduce a finger or two in the rectum during a throng pain, when the head was low down, and preffing againft the forehead at the root of the nofe, keep the head in that position for a few pains. By this method the patient was foon delivered of a dead child, round whose neck the funus was four times circumvoluted.

I was called to another gentlewoman in labour of her first child, whose os uteri dilated with the membranes and waters in a flow and gradual manner, 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 pushed farther in time of a strong pun, it was drawn back to the same place as the pain abated, and continued to advance and retreat in this manner for several hours, so that the patient was very much fatigued, and her friends began to be very uneafy.

That I might examine more narrowly; I began to dilate and open gently the os externum during every pain, until I could eafily introduce my fingers all round the lower part of the child's head, fo as to perceive that the delivery was not retarded by the largeness of the head, or the fmallness of the pelvis; neither could it be delayed by the contraction of the uterus before

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PART II:7

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before the fhoulders, becaufe the head began to be drawn upwards, immediately after the membranes broke; and the contraction feldom happens until all the waters are difcharged. From thefe eireumstanees, I concluded that the difficulty proceeded from the circumvolutions of the funis umbilicalis round the neek of the child. The left ear of the fœtus 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 affift in bringing the head lower, and keeping it fo with the help of the foreeps, had it continued much longer in that fituation ; but as the had every now and then a ftrong pain, I first tried what might be effected by different positions, and directed her to bear the pains standing, fitting, kneeling, lying on one fide, or refting on the bed in a posture between fitting and lying. This laft was the most fuccefsful, and in three or four strong pains, the head, though still retracted, advanced lower and lower, and began to dilate the os externnm. But observing that it made another ftop, I introduced two fingers into the rectum, when it was pushed down by a ftrong pain, and preffing them against 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, I found in Mr. Oald's Treatife, published in the year 1742; and I have frequently followed it with fuces, when the forehead was come down to the os coccygis; but when it advances still lower, I withdraw my fingers from the restum, in order to prevent a contusion of that part, as well as of the vagina, and prefs with my fingers on the external parts, and on each fide of the coccyx. Care, however, must be taken to avoid the eyes in this pressure, otherwise they will be afterwards inflamed.

I muft observe, that this affistance is not to be used, except when the head comes low down, without continuing to firetch 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, such gradual dilatation is much more fafe for the woman than a fudden differition, by which the parts are in danger of being inflamed or lacerated.

CASE III. and IV.

I HAVE in this manner affilted in a few eafes where delivery was retarded by the fhortnefs of the funis; patieularly in one patient who was delivered by the forceps; and in another who was delivered by the labourpains, affilted in the manner deferibed above. In this laft eafe the funis was not above two hand-breadths long, though very thick.

Mauriceau, in p. 336, and obferv. 406, relates an inftance of his having delivered a woman of her first child, whose navel-string was extremely short, and as thick as its arm. The child had been dead several days before delivery.

It may be proper to obferve, that when labour is retarded by the fhortnefs or eircumvolution of the funis, the retraction or drawing back of the head does not begin to be perceived until it is low in the pelvis; whereas it is fooner obfervable when owing to the contraction of the uterus before the fhoulders. The head is also low down before it can be retarded by one of the fhoulders refling above the os publis or facrum, instead of being towards the fides at the brim of the pelvis.

NUMB. II. CASES I. II. and III. OF KNOTS. [Vide tab. xxix.]

M Y attendance was befpoke to a woman, who imagined 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 elytter.—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 fearf-fkin was eafily ftripped off, the abdomen tunified, and the funis fwelled and livid, about ten 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 affifted in another cafe, where the funis, being nine hand-breadths long, had a loofe knot on it, and was twifted 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 nature of the labour, which was very lingering, the head being fqueezed to a great length, and the brain too long compressed in a narrow pelvis.

NUMB. III. CASEI.

Of contractions of the uterus before the shoulders, and these last resting above the pubes or facrum. [Vide tab. xiv.]

BY the following cafe, I difeovered that labours are often rendered tedious and lingering by the lower part of the uterus contracting before the fhoulders, when the membranes break and the waters are too foon evacuated : this contraction not only keeps up the body of the child, but fometimes prevents the fhoulders from turning to the upper part of the pubes 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 first child, the membranes having been broken a long time. I found the head prefented almost 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 first 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 I could forefee nothing dangerous in the cafe. I accordingly took my leave, after having affured them the was in a fair way, and would in a little time be fafely delivered by the midwife. In about two hours, I received another call, and was told the medicine had done her no fervice. I likewife undertbood from the midwife, that the child's head was very little advanced, and that the had kept her in an eafy polition, according

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according to my direction. When I examined, during a firong pain, I found the head lower down, but as the pain abated, it was drawn back to its former place: upon which I turned her upon her fide, in order to bring down the head with the forceps, but first refolved to try what could be done by dilating the parts. Accordingly, placing her breech to the bed fide, I gradually ovened the os externum during every pain, introduced my hand up the vagina, and with great difficulty raifed the head above the brim of the pelvis. In suffing up my hand, on the posterior part between the os uteri and head, I felt the lower part of the womb firongly contracted round the child's neck; then, by continuing to push up farther, I raifed the child, and gradually firetched the contracted part; fo that when I withdrew my hand, a firong pain immediately followed, and forced down the head to the lower part of the pelvis; and in a few subsequent pains the child was delivered.

Although the child is not large, nor the pelvis fmall, labour is frequently retarded by fuch contractions, when the membranes are broken too foon: fo that practitioners fhould avoid breaking them until the mouth of the womb is fully opened, that the head, by defeending immediately into the pelvis, may plug it up, and prevent the waters from being too foon difcharged. Except, however, in cafes of flooding, where the lefs difficulty or danger muft yield to the greater, and the membranes be broken in order to flay the hæmorrhage.

By those contractions, the child's head is feldom kept up fo long as in in the case described above, but is gradually pushed lower down; and the the labour is more or less lingering, according to the degree of contraction, and the strength or weakness of the pains. In a word, there is feldom.occafion to affist until the pains fail, as we shall observe in the laborious cases.

.... COLLECTION XX.

Of lingering cafes from the large fize of the child, and the hydrocephalus.

NUMB. I. CASEI.

FROM THE LARGE SIZE OF THE CHILD. [Vide Tab. xxi, xxvii, and xxviii.]

WAS called to a woman, whofe friends told me fhe had been three days in labour, and that the midwife, who had loft her opportunity, was keeping her in hand. She, however, in her own vindication, gave me to underftand that the had delivered the patient twice before; that the first labour was lingering, and the child, which was fisall, came before the time; that the fecond was alfo tedious, and the child, which was large, ftill-born, becaufe they had fent for her when it was too late to fave it by making more room: that, in order to obviate the like misfortune upon this occafion, fhe had been, called in good time, and confiderably dilated, the parts; but when the waters were difcharged, the pains had not been, ftrong enough to deliver the child. She likewife affirmed, that when fl e was called, there was no opening of the os internum, which did not begin till the preceding night; but that the woman laboured under a colic, sttended with a loofenefs, which had been flopped by fomething preferib dr by the apothecary, upon which the pains grew ftronger; and that fuc, the midwife, had loft no time, but tried all the different positions, and dilated the parts during every pain. Indeed, the loofeners had exhausted the patient; and she was moreover fatigued by this unskilful management of the midwife, who was extremely ignorant, had never received the least inftruction, and feemed incapable of profiting by her millakes in practiee.

When I first examined, I found the mouth of the womb pretty largely opened, but thick and fwelled; the external parts were likewife tumified and inflamed. I afterwards, during another pain, felt the head prefenting, though very high up. Her pulfe being low and quick, I directed the attendants to put her to bed, and keep her as quiet as possible. As she was, troubled with a great drought I defired her to drink barley-water, and take now and then a little weak broth, with toassed bread; and lassly, in order to amufe herfelf and friends, I preferibed a draught of fyrup and fimple waters to be repeated every two hours. Then exhorting her to difregard the triffing pains she had, I affured her they would grow stronger, and affist the delivery with better effect, after she should have enjoyed a refreshing fleep. Having given these directions, I took my leave about eight in the morning, and returning in the evening, was informed that she had flept very found for five or fix hours, fweated plentifully, and undergone every now and then a fmart pain.

Finding the parts much fofter, the heat abated, and the pains gradually pushing down the head of the child into the pelvis, I encouraged the patient, telling her fhe was now in a good way, though, in confequence of her weaknefs, her delivery would require fome time, and therefore the ought to exert her patience. I likewife privately directed the midwife to let her reft in bed, and fleep as much as poffible, without fatiguing her by a repetition of her former conduct. But notwithstanding this express admonition, when I was called early next morning, I underftood fhe had afted diametrically opposite to my advice, by raising her out of bed, andharraffing her in the manner already defcribed, fo that the was quite funk and dispirited, 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 much recruited and refreshed; the inflammation also abated; upon which the pultice was re-. moved, and the part cleaned ; and the pains growing ftronger, fhe was delivered about noon, of a dead child, whofe head was fqueczed to a great. length.

I afterwards delivered this woman three times, and the children were all uncommonly large; but by giving her time, and keeping up her ftrength, fhe was fafely brought to bed, and they were all alive.

CASE II. and III.

B EING ealled, in the evening, to a patient by the midwife, who told me the woman had been long in labour of her first child, that the os netri had gradually and flowly opened, that the waters had been discharged a great many hours, and that the child's head did not advance. I found, upon examination, the head was come down to the middle of the pelvis; and the woman being strong, with a quick, full, hard pulse, was bled to the

the quantity of ten ounces. She was kept quiet in bed, and flept between the pains, every fecond or third of which was pretty flrong. 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 being exhausted, and her pains growing weaker, I refolved to deliver by turning the child, or if that should not be practicable, to affist 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 vagina : upon which I determined to use the fillet; when a ftrong pain coming on, as I withdrew my hand, the head defeended lower, and in two more pains the woman was delivered of a child, whofe head was squeezed to a great length. By this method I have several times fucceeded in fuch cases.

Some time after, I was called to another woman, who had been long in labour of her third child. When I first 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 exhausted spirits were recruited, and her pains grew stronger; I affisted as in the preceding cafe, and she was delivered of a dead child, with a large head squeezed to a great length.

CASE IV. V. and VI.

No. 11 - Channel Martin Landarian

I WAS called to a patient whom I had delivered twice before: in her first labour I used the crotchet, in the second I tried the fillet, but without success; upon which I brought the child by the sect, though I could not fave it, because the head was very large.

Having found by experience that feveral children were loft by using 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 manner, 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 confliction, Ikept her chiefly in bed. The waters broke foon after my arrival; the labour was very tedious from the largeness of the head, which advanced very flowly in the pelvis; but by encouraging and keeping up her ftrength, she was at laft fafcly delivered.

In the fame year, I attended another patient who had been long in labour, and whofe waters were difcharged many hours before I arrived. I found the mouth of the womb largely opened, the child's head advanced to the middle of the pelvis, the patient very much fatigued, and the midwife told me her pains had been firong, but 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 every pain; but, not fucceeding, I increafed the force until the noofe flipped off. Then refolving refolving to try what nature would do, I prefcribed a gentle opiate; and fhe being kept quiet in bed, enjoyed between the pains fome refrefhing flumbers, by which her ftrength was gradually recruited, and the pains 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 confequence of proper applications, recovered in a fcw days.

In the year following, I attended a gentlewoman in the city, in labour of her first child. She was young, strong, and healthy, stad 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 space of four hours, before it descended to the lower part, where it continued two hours longer before the was delivered.

I perceived that the greateft difficulty proceeded from the large fize of the head; and fhe being throng and the pains brifk, I thought nothing fhould be done but to encourage and prevent her from being fatigued. However, before fhe was delivered, her fpirits 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 most effectual while she continued in bed betwixt a fitting and lying posture, when they began to grow weak, I refolved, as the head was low down, to affist with the forceps: but before I used that expedient, I thought proper to alter the position, and try what would be the effect of her taking some pains standing, a posture which had succeeded in other cases. She was accordingly taken out of bed, and some loose clothes being put on, supported between two women. Her pains increased in confequence of this alteration; and after she had undergone several fevere ones, I found the child's head began to move lower and lower, and protrude the parts, in form of a large tumour. Then she was put to bed again, and with great difficulty I faved the perinzum from being toren. After the head was delivered, it required great force to bring along the shoulders: indeed this was the largest child I ever brought into the world alive.

The head was fqueezed to a great length, had a large tumour at the vertex, and if the mother's pelvis had not been very large, the child could not p offibly have been faved.

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CASE VII.

M Y affiftance was required to a patient about the age of forty, in labour of her first 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 ti ne, I understood the child advanced very flowly after the os uteri was largely opened, and the membranes had broken; and that the pains, though feldom, were pretty flyong.

In this manner labour proceeded for the fpace of twelve hours, at the expiration of which, the midwife told me, that although the had at first 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 head had been for two hours without the external parts. However, the child was delivered foon after the gave me this account, and appeared to have been but a very little time dead; and, in all probability, when the head was

PART II.

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fo low, and the pains abated, it might have been faved by the affiftance of the forceps, which feldom or never fail when things are in that fituation. I afterwards learned, that the fhynefs of the patient proceeded from the artful infinuations of the midwife, who terrified her with dreadful accounts of the use of inftruments.

NUMB. II. CASE I. and II.

FROM THE HYDROCEPHALUS.

A TTENDING a gentlewoman in labour of her fourth child, 1 felt the membranes passed down, and the os internum and os externum largely 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 fome time uncertain whether it was the head or breech. But the waters being difcharged, it was pussed a little lower down; then I felt the hairy fealp, and perceived that the head was dropfical, from the loofeness of the bones, and the great distance between them. After many fevere pains, the fealp was protruded to the os externum, which the contained water distended to fuch a degree, that the head passed, 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 firft child. The membranes 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 feemed to be much thicker than the external. But before the os uteri was fully opened, the real membranes broke, and then I difcovered the other was the hairy fealp; 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 firetched the vagina and os externum in the fame manner as they are commonly dilated by the membranes and waters of the fecundines; and I felt the bones of the fkull loofe, and riding one upon-another.

At length the head being delivered, I was obliged to exert a good deal of force 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.

COLLECTION XXI.

Of lingering cafes, from a small, narrow, or distorted pelvis,

NUMB. I. CASEI.

[Vide tab. xxvii. and xxviil.]

LTHOUGH these labours may feem to be of the fame clais, and sequire the fame management with those that preceed from a large head, there is an effential difference; for though they are much the fame with regard to the efforts of the woman, the operation in these has much lefs room when he is obliged to affist with his hand, and the child's head is disfigured and compressed into large indentations, occasioned by the jutting in of the upper part of the facrum and vertebre of the loins.

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I was befpoke to attend a woman of a middling fize, and to appearance well m'de, who had been three times before delivered of dead children. The first prefented with the arm, and the midwife having kept her two days in hand, with promises of fafe delivery, the friends called a gentlem in of the profession, who, with great difficulty, extrasted the child by the feet, and was fo much fatigued with the operation, that he w s obliged to keep his bed for feveral days. In her next child I was employed, after the had been weakened and exhaulted by another midwife, who, with great felffufficiency, had undertaken to bring matters to a happy iffue.

Having waited a long time to no purpole, I tried the forceps; and these failing, dilated the cranium, according to the method deferibed in laborious births. Then I found the difficulty proceeded from the large fize of the head, and the jutting in of the upper part of the facrum, which was , not above three inches and a half from the os pubis. In her third labour, I attended by myfelf; but the breech unluckily prefenting, and the child being very large, I could not poffibly fave it, for I was obliged to use the curved crotchet in delivering the head. to the great grief an.l mortification of the poor mother, who had fuffered fo much, and loft three children.

When I was called to her in labour of her fourth child, the mouth of the wonb was open to about the breadth of a shilling, and the child's head refted 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 last vertebra of the loins. Labour being juit begun, I encouraged the patient, by telling her, that I had faved many children, even where the pelvis . was narrower than her's; and that I wis now in great hopes of ficceeding, provided the child was not of an extraordinary fize. As the had flept but little the preceding night, and her pulfe was rather full, I ordered ten ounces of blood to be taken from her arm, and her inteffines to be emptied by a clyfter; and taking my leave in the morning, defired the nurfe would not fend for me until the membranes should be broken. She was accordingly kept quiet in bed, and enjoyed fome refreshing fleep; and in the evening I received a meffage : then the membranes were broken, the mouth of the womb being largely opened, and the head beginning to be fqueezed in at the upper part 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 hitherto undergone proceeded from the membranes stretching the mouth of the womb; and now the he head being kept up, dil not continue the distention of these parts, but locked them up fo as to detain a quantity of waters still in the uterus.

I went away again, defiring the nurfe to fend for me when the pains fhould return and grow ftronger; and in about three hours I returned, in confequence of another call, when I underftood 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 almost expended, and that the uterus was close contracted to the body of the child.

As the patient had been chiefly in bed during the whole day, I directed her to take her pains in a fitting posture, and now and then to walk about without fatiguing harfelf. She therefore fat in an eafy ch ir, leaning backwards; and in this manner took her pains, until towards morning, being very much fatigued, the was again put into bed, and laid on her back : her shoulders being raised with pillows, fo as that her posture was between fit-

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ting and lying, I defired her, in time of a pain, to pull up her legs, while an afaftant fupported her fect, and directed her not to force down, except when the pain was ftrong. The head continued to advance very flowly, the bones of the cranium riding over one another; 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 generally the ftrongeft, the head advanced, and the occiput was gradually raifed to the fpace below the pubes, the forehead turning backward to the lower part of the facrum and coccyx.

The head being now fo low down, and difengaged from its confinement and preffure at the upper part of the pelvis, proceeded much more eafily than before; however, as the child was large, and might be loft in being detained too long by the contraction of the uterus before the fhoulders, I affifted a little when the forehead was come down to the lower part of the coccyx, by placing my fingers on each fide of it, in time of a flrong pain, in order to prefs the head forward to the fpace below the pubes, and prevent its being drawn back upon the abatement or ceffation of the pain.

The head being delivered, I was fain to use a good deal of force in extracting the fhoulders; for although I had brought them down to the lower part of the ifchium, I could not effect the delivery until I introduced a finger above one of them, up to the middle of the arm, and, by prefling toward the facrum, brought it down with an half-round turn; upon which the body followed.

The circulation in the funis being flopped, the child, which was very large, and whofe head was compressed 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.

CASE II. and III.

THREE years after, I delivered the fame patient of another child, when the labour proceeded much in the fame manner; with this difference, however, 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 above the os pubis, as in the former cafe. She was bled, and received a clyfter, as in the preceding cafe; but as the pains were not begun, and I was engaged at another labour, I left a midwife, with projer directions how to manage when the pains fhould come on, until 1 fhould be at leifure to come and attend her.

Soon after 1 went away the pains began, and a large quantity of waters was from time to time difcharged. When I returned in the evening, I found the os uteri pretty largely opened, and the head pufhed down to about one-third of the pelvis; and taking it for granted that the would have many more ftrong pains and that all the waters were not yet difcharged, I lay down in a bed to take fome reft, becaufe I had been much fatigued the night before, and defired the midwife to call me as foon as the head fhould be come down to the lower part of the pelvis. The patient bore many fevere pains with extraordinary courage; the child's head was in the function deferibed for about three hours after 1 went to bed; and in half an hour after I rofe, the woman was fafely defivered of a live child. Since the

the publishing of the above she has been twice delivered in the same cautions manner by Mrs. Maddocks, on my account; and the children were live-born and did well.

I attended another woman whole pelvis was also difforted, and rather fmaller and narrower than that defcribed in the precessing cafe. She had, the year before, been long in labour, and much exhausted, before she was delivered by another gen leman, who was obliged to open the child'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 larger than the former, wa not above the common fize .- Vide the crotchet cases.

M Y attendance was bespoke to a woman who had been four times deli-vered by another gentleman of dead children; and it was alledged her pelvis was fo narrow and ill-formed, that fhe could not poffibly bear a live child.

I was averfe to interfere with any other practitioner; and actually refufed to undertake the cafe, until I was importuned by two of her acquaintance whom I had delivered, and affured that the other gent.eman would never be employed again at any rate : upon these representations I premised to attend this patient, who was a little woman of a delicate constitution fubject to icterical complaints; for which I advifed her to c afult fo ne phyfician; though in this particular fhe neglected my advice, on the fupposition that her health was mending.

Soon after my first visit, I was called to her when she imagined herfelf in labour, and found the mouth of the womb but very little open, though foft and yielding. Her pains feemed to proceed from her being cottive; yet I felt the head refting above the pubes, and was agreeably furprifed to find the pelvis was not fo narrow as it had been deterized ; for with 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 circumitance, I understood the pelvis, at th t part, was not half or three quarters of an inch narrower than those that are well formed. I therefore hoped, that if the child was not large it might be faved, provided I could keep up the woman's ftrength. With this view, after having encouraged her, by communicating my opinion, I preferibed a clufter ; after the operation of which fe took the following draught :- R Aq. cinnamom. fimp. 3ifs. cum fpiritu zij. Confect. damocrat. zfs, Syr. e. meconio zij. M.

It was now late; and I being uncertain when I bour would begin, flaid with her during the best part of the night, but went 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 morning, when I understood fhe had triffing pains in the night, though the had flept in the intervals. found the waters pushing down the membranes, and the mouth of the womb open to about the breadth of a crown; and the being weary with lying, I advifed her to rife and take her breakfail. Having iat with her about two hours, during which the pains were but flight and returned feldom, and b lieving they would not grow much ftronger until the mouth of the wonb thould be fully opened, the membranes roben, and the waters difcharged, I proposed to go and visit some other patients; and laid injunctions upon

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the nurfe to put the woman to bed, and fent for me as foon as matters should be thus ripened.

She feemed uncafy at my going, and afraid I would not return. She obferved, fhe had been already two days in labour; th t the other gentleman would not have waited fo long, but have delivered her before this time, either by turning the child, or extracting it with inftruments: the nurfe, too, made reflections of the f me nature.

I paid 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 nt, and known the particular circumflances : and nothing ean be more abfurd than to justify 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 labour till the night before; that I would do every thing in my power for the fafety of herfelf and the child; and begged, that if fhe was in the leaft diffident of my fkill, fhe would fend for the perfon who formerly delivered her; for I would not attempt to force 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 I had promifted to return upon the first notice, which was about eleven; but at two I was fent for in a great hurry. The nurfe had put her to bed; and I, during a ftrong pain, felt the membranes pushing down large and full through the os externum. As the pain went off, and they were relaxed, I 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 compressed, I am inclined to believe, that though the child had 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 vanished, and in two months she was healthier and stronger than she had been for many years.

NUMB. II. CASE I. and II.

From inflammatory or ædematous swellings of the pudenda, scirrhous tumours, po'ypus, or calesity in the wagina or os uteri.-Vide sect. iii. No. v.

A WOMAN in the latter end of her first pregnancy, had ædematous fwellings 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 ædematous, feemed to have contracted an inflammatory hue; the left leg and thigh were much mo e tumified than those of the right fide, and the skin was fomething of a livid colour. Twelve ounces of blood were immediately taken from her arm; the was put to bed, and in confequence of fomentations, in three days the pain and inflammation abated : but the fwelling of the pudenda still continuing, I preferibed an emollient eataplasm to be frequently renewed; and in the first day she had taken two dofes of gentle cooling physic. On the fifth day she was taken in labour; and though the parts were still swelled, and stretched with great difficulty, she was at last fafely delivered.

The pultice was still applied, the fwelling gradually fubfided, and she 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 were fo excellively fwelled, that both patient and midwife believed the child could not poinbly pafs; and the tumefaction was attended with fuch pain, that for three days the had been obliged to keep her bed, and lie on her back, without daring to after that pofition. When I examined her during a pain, 1 found the os uteri very little open; and thence concluding labour was but juft beginning, I punctured the parts in teveral places with a lancet, a large quantity of ferous fluid was difcharged, the fwelling fubfided, and the labour proceeded in a flow manuer, until fhe was delivered.

Such cafes have often occurred in my practice, and I never knew them attended with any bad confequence; for when the fwelling 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.

CASE III. and IV.

WOMAN, in labour of her first child, was attended by a midwife, who imagined the felt the child's head, though very finall, in the vagina : but examining again after a few pains, the felt that iubnance pullied to one fide of the pelvis, and the membranes and waters forcing. down at the other ; these being broken and dricharged, the found tome -. thing like another head come down alfo. She being alarmed at this ftrange circumstance, recourse was had to a gentleman of the profession, who, be-. ing alfo puzzled, made a pretence to leave her, and afterwards fent a meffage, defiring that another might be called, as he was indiffentably engaged. But before any affiftance could be procured, the woman was delivered by the labour-pains of a middle-fized cluld: and it was not till. fome months after that the fubiliance was found to be a feithous tumour. or excrefcence of the polycus kind, adhering to the outlide of the os uteri, which was afterwards t ken off by ligature :- In tome few cales, after fevere labour, I have felt what I supposed to be hard cicauses, or callofities at the os uteri, vagina, and os externum, by which the delivery was retarded.

My attendance was bespoke to a woman, who had recovered with great, difficulty after a former tedious labour.

When I examined, the os uteri was open to about the breadth of a crown, the membranes, with the waters, were pufhed firongly down, and I felt uncommon hardneffes and fir.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 me, that for fome days after her laft delivery, little fieldy fubitances were now and then difcharged, of of a blackish colour, and bad finell; and that a long time elapted before the recovered and was able to fit up.

The labour now proceeded very flowly, until the mouth of the womb was fully opened; and the neutranes bleaking, the contracted vegina, was gradually frietched by the head of the child; for notwithit noting the callofities which ftill continued, the neight curing parts yence by degrees, and though it was long refore the os externum was functionaly dirated, at laft the child was delivered.

¹ I managed this cale with great caution, becaufe, from the imperfect accounts of her former labour; I fuppofed there had been a violent minamma-

tion, and that the callous firitures were the confequence of a partial mortification, which had been feparated and caft off by nature.

I kept her mostly in bed, and during every strong pain, preffed my fingers, gainst the head, fo as to abate the force of the protrusion, and allow time for the relaxation of the strictures, by which means the labour fucceeded beyond expectation.

NUMB. III. CASE I. II. and III.

OF THE DETENTION OF THE SHOULDERS AND BODY OF THE CHILD, AFTER THE HEAD IS DELIVERED.

WAS called to a patient in labour, after the child's head was delivered, as the midwife could not extract the body, though the had pulled fome time with great force. I found the navel-thring furrounding the neck, and luckily hooked with my finger that part of it which was next the child's belly, it was to loofe as to flip over the head: I undid two other circumvolutions in the fame manner, and the child being difentangled, was immediately delivered. I have, in many other cafes, freed the child from the circumvolutions of the funis, in the fame manner; and was difpoted to be-Heve, that it was very feldom, if ever, neceffary to cut and tie this rope before the delivery of the child, until my opinion was altered by the two following inflances:

I was called in a great hurry to a woman, whofe delivery was retarded by the fame caufe deferibed in the foregoing cafe, and tried to difengage the child from the circumvolutions of the funis, though without effect. Then, without waiting to make a ligature in two places, as we are commonly directed to do, 1 infinuated my fingers between one of the turns and the child's neck, fnipped the funis in two with my feiffars, and delivered the body of the child, which was dead. The face and neck were very much fwelled, and in this laft appeared a deep imprefion from the tightnefs of the circumvolution.

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 fnipped it afunder.

The confequence of this operation, was the immediate delivery of a ftrong 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 flortness of the funis; but the child was always fafely delivered, by turning the body along the breech of the mother.

I RECEIVED 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. Bu't before 1 arrived, the patient was delivered of a dead child, whole fhoulders were remarkably large. I have been called by midwives to many cafes of this kind, in which the child was frequently loft.

I attended in another labour that was rendered tedious by the large fize of the body after the head was delivered. I attempted to being down the shoulders in the gentlest manner, according to the directions in my Treatife;

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but found I could not fucceed without using such force as would over-strain the neck and destroy the child; for the shoulders were so high, that I could not reach with my singers to the arm-pits. I then introduced the blastlook, but could not succeed, without running the risk of breaking the arm, or over-strining the joint at the shoulder; and as the woman had strong pains, I resolved to wait their effect, without using any violence that might endanger the life of the child. Accordingly, in three pains, I brought the shoulder down to the os exterium; then turning one of the arms into the hollow of the factum, the body followed, and the child was born alive. From this, and other cafes, I have learned to wait the effect of the labour-pains, rather than to use violence in pulling at the neck:

CASE VI.

Communicated in a letter from Mr. A-, at E-,

HAVE had lately another melancholy cafe in midwifery. I was fent for to a woman, aged forty, who had boren fev ral children before. When I came, I found the frontal and parietal bones separated from the reft, and without the vagina, the brain being evacuated. I fl.pped up my fingers, and found the os tincæ contracted about the neck of the child, and endeavoured to pull it away, but in vain. I then fent for Mr D and Mr S. neither of whom could come. I next fent for Mr L. wn) came; and I defired him to fee what he could do, as my fingers were numbed. He first got one hand into the uterus, and then flipped up the fingers of the other, and brought away the child. The woman's pulfe before delivery was ftrong, and the had little flooding : but we had not been gone a quarter of an hour when we were fent for again. They told us, that immediately after we went away, which was about five minutes after delivery, the was feized with a thivering and vomiting, and had fainted. We found her in a fwoon, and held spirits to her nose; but she could not swallow, and died 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 rupture of the internal orifice, which the vomiting feems to have indicated ?

The Anfaver.

I really think you have had your thare of bad and unfuccefsful cafes: but in all of them, especially the last, you acted with produce in fending for others of the profession.

In cafes where the head is delivered, and the fhoulders are fo large, or the lower part of the uterus is fo contracted, that the body cannot be orought away by pulling with moderate force; if the woman's pains have not entirely left her, or fhe is not in a dying condition from floodings or other fymptoms, the best method is to wait for the effect of the labour-pains; for I have lately been concerned in the cafe of a weak woman, where the body of a live child was delivered half an hour after the head was without the os externum.

Now, as your patient was not weak, I think you might hall e waited and amufed her with medicines; or if the had turned weak, and nature feemed infufficient. you might have puthed up your haad, and after having firetched the contracted part, tried to deliver the child. If this method had

[PART II.

had failed, recourfe might have been had to the crotchet, as the child was already dead. This being fixed upon the body, would; by dilating the ihorax or coftæ; have diminifhed the bulk, and brought down one fhoulder the great way before the other.

I eannot pretend to accertain the caufe of the woman's death.

I have been concerned in feveral cafes, where, though the os internum was tore, the patient has recovered without vomiting or any other bad fymptoms; and have known other women die. as it were inftantaneoufly, after delivery, though I always imputed fuch fudden death to their being exhausted by long labour, the fudden emptying of their vessels, and a greater loss of blood than their constitution could bear.

COLLECTION XXII.

Of children fupp fed to be dead-born; of the head fqueezed into different forms; of the funis not fufficiently tied, broke fhort, or feparated in a wrong place.

NUMB. I. CASE I. and II.

OF CHILDREN SUPPOSED TO BE DEAD-BORN.

WAS called by a midwife, to a woman in labour in the feventh month, who, before I arrived, had flooded a good deal, though the hæmorrhage was flopped. The patient was foon delivered of a child, to all appearance dead: and, after the midwife had tried the common methods 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 these experiments, and two or three minutes more, while I was preferibing fome medicines to recruit the weak patient, I heard a kind of whi npering noife in the clofet. Not knowing where the child was laid, I afked if there was not a kitten confined in that place. The nurfe immediately ran into the clofet, and brought out the child, 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 ret feveral times before I could effect it; to that the pulfation eeafed, and the child feemed to be dead, after all the common efforts were ufed for its recovery. Neverthele's I inflated the lungs, by blowing into the mouth through a female catheter, and the child gave one gafp; upon which I repeated the inflation at feveral intervals, until the child began to breathe; and it actually recovered.

NUMB. II. CASES I. and II.

OF THE CHILD'S HEAD SQUEEZED INTO DIFFERENT FORMS.

ATTENDED a woman who had before been fubject to lingering labours, occafioned by the fmall fize of her pelvis: at this time, however, the delivery was pretty quick, becaufe the child was fmall, and the bones of the cranium cafily yielded and rode one another. But the head being

being fqueezed to a great length from the face to the vertex, I preffed the palms of my hands against both these parts, and with great ease brought it to a better form.

In the courfe of the fame year, I attended another woman who had a large and well-fhaped pelvis, and had formerly been favoured with very quick labours: but on this occasion, the child being large, and the mother weak, the delivery was tedious, and though the child's head was compreffed into a longitudinal form, I eafily reduced it into the natural fhape.

In all cafes where the head was thus fqueezed. I have been able to alter the form by a gentle preffure between my hands; unlefs it had been compreffed for many hours by being retained in the pelvis, and then I have found it impossible to make an effectual alteration.

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NUMB. III. CASES I. II. and III.

OF THE FUNIS NOT SUFFICIENTLY THEP, FROKIN SHORT, OR SEPA-RATED IN A WRONG PLACE.

A WOMAN I delivered, whole cale was preternatural. Though the navel thring was thicker than ufual, I thought I had tied it fufficiently; and the child being laid by the fire, continued in that fituati n a good while before it was dreffed, becaufe the attention of myfelf and the attendants was engroffed by the mother, who was extremely weak and low. After the was recovered and laid properly in bed, I went towards the child, and was very much furprifed to fee for much blood loft, and to obferve it ftill flowing from the funis. I no foone, difcovered this, than I made another ligature on the outlide of the former; and, pulling it very tight, the difeharge leffened, though it did not entirely ceafe until I had made a third. The child, which fee ned to be healthy and flort when firft born, was exhaulted by this hæmorihage, and continued weak and gale f r feveral days, until it was recovered by fucking the mother. Thick navdftrings require very firm ligatures, and a good portion of them ought to be left in the feparation.

Having delivered a woman whole cafe was laborious, I defired one of the affiftants to hold the child before the funis was cut or tied, until I fhould move the woman a little farther into the bed, that the might not run the rifk of catching cold. The affitant, who received it in a hurry and trepidation, pulled away to fuddenly, as to break the funis that from the belly; when the midwife, perceiving the child bleed excettively, took hill of the part, and preffed it firmly between her fingers and thumb. I had juft room enough to make a ligature, and was obliged to take a flitch with a needle, in order to fecure it from flip ing.

After having delivered another patient of a fmall and we kly child, I tied and cut the navel ftring, and put the child into the hands of a woman who pretended to great fkill and experience, and had come thither to fuperintend my conduct. I no fooner laid hold of the funis, than feeling the ligature upon it, I was convinced that I had feparated the rope between it and the child's belly, which not a little disturbed me, as I had to deal with a cenforious matron. However, I recollected myfelf in an inftant, and defired to fee the child, that I might know whether or not the navel-ftring had bled fufficiently, for by fuch a difeharge I had often prevented convultions in children. I immediately perceived the blood fpringing ou from the arteries with great force, and before I could make a proper liga

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ture, the child had loft three or four ounces; by which evacuation it continued feveral days in a very weak condition. Indeed, when the child is large, and the had has long been compressed in the pelvis. I have imagined, that by type g the ligature flightly at first, fo as to let the funis discharge two or three spoor fuls, convultions have been prevented; but this was a f all child, that passed easily, and could not well bear such an evacuation. N vertheles, my mistake turned to my advantage with the knowing lady, who was very loud in my praise for having found out such an effectual and extraordinary nethod of preventing convulsions in children.

COLLECTION XXIII.

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Of coses in which the placenta was with difficulty delivered.

CASES L. H. HI.

WAS called to a woman in labour in the feventh month, who flooded vio ently, and delivered her fafely of the child; but as the placenta did not follow, 1 introduced my hand, and felt fome parts of iç har I and feirrhous, which I feparated with great difficulty. The flooding, which had flopped, now returned; and the patient in a little time fell into fainting fits, and ex, ired.

I was again called to deliver the placenta in a woman who had mifcarried n the fixth month. Finding it a cafe of the fame nature with that deferibed above, I refolved to act with greater caution; and extracted those parts only that fepar ted with eafe, leaving fuch as ftrongly adhered, to come away of themfelves. I told the midwife my reafons for acting in this manner, and prognoflicated that what remained would be expelled in two or three days, and pafs for common clots or coagula. This accordingly happened, without any bad confequences to the patient.

In the fame year, about feven in the evening, 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. Imagining that a good deal of force would be required to extract it, I ordered the woman to be laid fupine acrofs the bed, with her breech to the fide, and I er legs raifed up and supported by two affistants. Then anointing my hand, and introducing it into the vagina, I gradually dilated the os in ternum; but found the lower part of the uterus fo ftrongly contracted, that I at first despaired of making farther progress; and the force I exerted was fo great, and my hand went up fo high, that I was apprehensive of tearing the uterus from the vagina. Feeling the womb roll about, under the relaxed parietes of the abdomen, I pressed one hand on the outside, to keep it down and prevent its motion, while I proceeded flowly, puffing up and fretching by intervals, with my fingers in the form of a cone. By thefe means, I gradually dilated the pasts, though I was obliged to change hands first times, becaufe my fugers were cramped; and at length, with great difficulty, I reached the fundus, where the placenta had been fo ftrongly con ned. Having gained my point thus far, I eafily feparated and brought it gently along. CASES

SMELLIE'S MIDWIFERY.

CASES IV. V. VI.

TMMEDIATELY after 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; pushing up farther along the navel-string, my fingers flipped into a contracted part, and the placenta felt as if it had been contained in a feparate cavity from the uterus. As I pushed up, in order to dilate the contracted part, it role 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 preffed down the fundus, and kept it steady. Then I gradually dilated ; and infinuating my hand into the part where the placenta was confined, I felt it lying loofe and detached from the fundus, feemingly retained by this contraction only; fo that it was eafily extracted From this, and feveral other eafes of the fame kind; I was disposed to believe Dr. Simpson's theory concerning the contraction of the upper part of the neck of the uterus, until I found, in a great number of instances, the whole lower part of the uterus contracted, as described in the third cafe.

After another delivery, I found the edge of the placenta at the infide 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 I 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 pushing up along the ravel-string, found the placenta adhering to the back part of the uterus. Then grafping it with my whole hand, I attemped to feparate by fqueezing; this expedient failing, I attempted to part the upper edge with my fingers, but it adhered firmly 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 posterior part of the uterus; and finding it adhere firmer as 1 reached farther up, I preffed my fingers with greater force against these parts, which felt callous, and by degrees 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 these efforts proving ineffectual, I puthed up again, and made a total feparation ; after which I brought it away in a very 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 often thought that this hurrying method was unneceffary, 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 itself at leifure; the woman has loft Jefs blood, and recovered better, than where force hath been used to extract it immediately.

Being called to a woman who had been delivered feveral hours, the midwife told me she had at first tried gentle methods to bring down the placenta, but 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 diffinct cavity at the upper part and left fide of the uterns; but as the patient moved from me, and could not be kept Ready, and the uterus rolled about as I endeavoured to dilate the contracted

parts,

CASE

parts, I put her in the position described in the third case, and extracted the placenta in the fame manner.

The appearance here was different from any I had formerly felt; there was a pretty large 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 first fearce admit two or three of my fingers.

I underste od from the midwife, that the membranes had broken before delivery; that the woman was very big, and a large qu ntity of water had been difeharged. This fudden evacuation, in all probability, was the caufe of the womb contracting itfelf into fuch a cavity around the placents.

CASES VII, VIII. IX.

I N the fame year, I was called to a woman in labour, and finding her belly pendulous, I ordered her to be laid on her back, with her thoulders low, and her breech raifed. The child's head being finall, the was foon delivered, and I defired the midwife to let the placenta come flowly away. Neverthelefs, as it was not immediately expelled, and the was loth to lofe the credit of the operation, the julled with fuch force as broke the funis clofe to the placenta, and afterwards introduced her hand to feparate, though without fuccefs. I was then called from the next room to her affiftance, and being informed of the accident, took the opportunity of the patient being full in the proper position, to introduce my right hand into the ute us, to the fore-part of which I found the placenta adhering; but it was fo much forwards, the I could not feparate while the remained in that position; I therefore turned her on her left fide, fo that my hand could reach farther forward, and effected the feparation.

After having delivered a woman of a dead child, I found the placenta gradually defeended into the vagina, and imagining it was fully difengaged from the uterus, I helped it along, by pulling gently at its under edge, and at the navel-firing. However, it was fo tender, from being n ortified, that fome part of it was left behind; but feeling the os utericlofely contracted, 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 difcharged 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 purfe of what would happen.

I delivered 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; but the membranes were tore all round from the edge of it, and detained in the uterus, which was contracted as in the former cafe.

The gentleman agreed with me, that it was more prudent to let them come away of themielyes, than to run the rifk of hurting and inflaming the womb; and they were accordingly difcharged in four or five days, without the leaft inconvenience to the patient.—*Vide* Ruyfch, tom. iii. dec. 2. p. 30.

And Mr. Portal, obferv. xvi. relating to the os internum, toren by its being miltaken for the placenta.

CASE X.

Communicated in a letter from Mr. ____.

A BOUT nine in the evening, he was fent for to a woman who had been delivered of a live child that morning, but the placenta remained; and he found her in strong hysteric or convulsion fits, which recurred almost without intermission. The placenta adhered so firmly to the uterus, that with great difficulty he separated part of it, and what came away, was brought off in feveral pieces, but the woman died in a few minutes after the operation.

Thefe are only a few, from the many eafes of this kind in which I have been concerned.

When I lived in the country, I was feldom called to deliver women, except in laborious and preternatural cafes; and then the woman was generally fo weak and fatigued, that I w s afraid of waiting, and therefore extracted the placenta fcon after the chi'd was born ; but if the patient was not in danger, I commonly left that office to the midwife, whole method was to proceed with patience 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 feather.

When I fettled in London, I found the practice in this particular quite different; the women were always in a fright when the placenta was not immediately delivered, when it was in the leaft lacerated, or when any part of it and the membranes were retained. For this reason, male practitione s were fo' often ealled; and they, from miftaken notions adopted from former writers, never failed to blame the midwives for having neglected fo long to deliver the placenta, observing, that if they had been called at first, before the uterus was contracted, they could have eafily prevented the bad confequences which were likely to enfue. Such infinuations alarmed the women ; and, in order to avoid these 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 answer their aim; for if the placenta was toren, or any part of it, or the membranes retained, and the patient chanced to be leized with a fever, perhaps from a different cause, so as not to recover in the usual way, it was always imputed to the retention of these portions, and the midwife blamed accordingly.

I have been often amazed at the ridiculous and superstitious observations of practitioners with regard to the knots upon the funis, fcirrhous appearances, and the different shape or figure of the placenta, which was often kept nine days in water, and the circumstances of the woman's recovery predicted from its eolour.

I at first fivam with the stream of general practice; till finding, by repeated observation, that violence ought not to be done to nature, which flowly separates and squeezes down the placenta by the gradual contraction of the uterus ; and having oceasion to perceive, in feveral instances, that the womb was as ftrongly contracted immediately after the delivery of the child, as I have found it feveral hours after delivery; I refolved to change my method, and act with lefs precipitation, in extracting the placenta. What helped to determine me upon this occasion, was a cafe in which the woman was fo weak, that I durit not venture to feparate, though I waited three hours, without finding the placenta at the os uteri; neverthelefs, when the recovered a little, a few after-pains came on, and forced it down to the vagina.

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Soon after this occurrencé, in confulting Ruyfch about every thing he had writ concerning women, I found him exclaiming against the premature extraction of the placenta. His authority confirmed the opinion I had alfeady adopted, and induced me to choose a more natural way of proceeding. Either before or after I have separated the funis and given away the child, I introduce my finger into the vagina, to feel if the placenta is at the 6s uteri; and if this be the cafe, I am fure it will come down of itfelf at iny rate. I wait fome time, and commonly in ten, fifteen, or twenty mifutes, the woman begins to be feized with fome after-piins, which gradually feparate and force it along. By pulling gently at the funis, it defcends into the vagina, then taking hold of it, I bring it through the os externum. But if, after having waited a confiderable time, without feeling any part of the placenta, or perceiving any natural efforts for its expullion, I provoke the woman to retch, and if this expedient is not attended with fucces; I infinuate my hand gently, and deliver the cake; obferving always a medium between the two extremes of practice, namely, that of delivering foo foon, and that of waiting too long for its expulsion. But it muft be obferved; that in laborious or preternatural cafes, when the women is in danger, I commonly affilt fooner.

COLLECTION XXIV.

Of laborious cafes, when the veries prefents, and the child's head is low in the pelvis, and delivered with the fillet.

CASEI.

WAS in the morning called to a woman in her first pregnancy, who had been long in labour, and very much fatigued by the officiouners of the midwife. I found the child's head at the lower part of the pelvis, where, as the midwife told me, it had remained from eight o'clock the preceding night, though she had tried all the different positions; and 1 underfood the waters had been craining off for twenty-four hours.

Having loft fome children, in cafes of the fame nature, by turning, and others by being obliged to deliver with the crotchet, after having tried Mauriceau's fillet without 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 fmall by moving my fingers eafily round it, Yet, before ever I attempted this method, I preferibed ten drops of li uid laudanum, by which she procured some sleep. Her strength 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 circumfance which I at first imputed to circumvolutions of the funis, or the contraction of the os uteri round the neck of the child, The os externum having been fufficiently opened by the midwife, I tried to flide up the noofe mounted on my fingers, along the fide of the head ; and, after many unfuccef ful efforts, at leagth fixed it : then 1 pulled gently with one hand during every pain, while 1 preffed with the fingers of the other, at the opposite fide; and thus pulling and moving from fide to fide, I made thift to deliver, though not without having used a great deal of force; and the hairy fealp was pretty much galled, but not to as to endanger the life of the child.

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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 tincæ at the middle of the head; and when the child was delivered, the 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 uncertainty, until I difcovered that, in many cafes, this obfiruction proceeds from the contraction of the lower part of the uterus before the floudders, or from the retention of thefe before the pubes.

I WAS concerned in a cafe of the fame nature, and found the woman much weakened by frequent difcharges of blood. I delivered her, in the manner deferiped 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 fealp was more galled, and part of it torea from the cranium.

In another cafe, I tried to use the fillet upon a child which was higher in the pe vis, but could not fix it until I pushed the head above the brim; then my hand having more room, I accomplished my aim, and succeeded better in this than in the former inflance; for the hairy fealp was not fo much galled, because the woman had stronger pains to affist the expulsion.

I tried in feveral other cafes, without fuccefs; and was obliged to deliver with the crotchet, becaufe the children were 1 rge. In the three cafes I have related, the head being fmall, I attempted to turn and bring the child by the feet; but was prevented by the firong contraction of the ut ras = and I am now certain, that had I then known how to ufe the forceps, I could have delivered with gre t cufe, not only in thefe, but in feveral other cafes where I failed with the fillet.

COLLECTION XXV.

Of laborious cafes when the head of the child is low in the pelvis, and delivered with the forceps.

[Vide Part. i. Book iii. Chap. 2. Sect. 4. No. 1. Tab. xvii. xviii. znd xix.]

IROM WEAKNESSES AND ANXIETY OF MIND.

EING called in the evening to one of the poor women who admitted my pupils, I found her in labour of her third or fourth child, and reduced to extreme weaknefs by long fafting, as fhe had not been able to go abroad feveral days to beg in the ftreets. I immediately, fupplied her with fome coudle, bread, and broth : but her flomach was fo weak, that it could retain but very little; for, though I defired fhe fhould take it at first by cupfuls, fhe was fo greedy of nourifhment that the fwallowed too much at once. However, fhe was afterwards restrained from doing herfelf an injury, and her flomach kept enough to recruit her ftrength, in fome measure. I found the os uteri largely open, and the membranes broken, and the head at the upper part of the pelvis. I left one of the eldeft pupils to manage the labour, advising him to perfift in giving her nourifhment, at proper times and in fmall quantity, and to let her lie mostly in bed, that fhe might enjoy fome fleep and refreshment. Indeed,

Indeed, when we first arrived, all of us were of opinion that the would expire; but in two hours her pulfe raifed, and her strength recruited, though the was still weak, and her pains feldom recurred. Thus the continued all night, fleeping between the pains; and when I called in the morning, I found the child's head advanced lower in the pelvis. I could then diffinguith with my finger, the ear at the pubes; and by the fore part of it I diffeovered 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 end of the fagittal on the right, and the fontanel higher up on the left fide.

I left her again, after having defired the pupil to proceed in the fame cautious manner, hoping, that as the patient was much recruited, the pains would grow flronger, and deliver the child.

Being called in the evening, and underflanding that the pains were ftill weak, and the goffips 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 perincum and parts adjacent, in form of a tumour, and nothing retarded the delively but the weaknefs of the pains.

I waited an hour longer, encouraging the woman and her friends to exert their patience; but finding that after the had undergone feveral pains, the head did not advance, and that I could eafily affift the labour, I placed her in the polition cholen for lithotomy, and gently dilated the os externum with my fingers during every pain. When one was going off, 1 flipped up the fingers of my right hand to the os uteri, on the left fide of the vagina, introduced one blade of the forceps between them and the head, turning the blade upwards towards the woman's groin, over the child's ear, holding it in an imaginary line with the ferobiculus cordis: then withdrawing my right hand, with which I took hold of the handle, I introduced the fingers of my left on the opposite fide, but more backwards to the space betwixt the facrum and ifchium, where the other car was fitnated, within the os uteri; and preffing the head against the blade that was introduced, fo as to keep it in its place, I with my right hand infinuated the other blade in the fame manner on the right fide of the vagina. Having fecured and locked them together, I waited for a pain, and then pulled gently; by which means the head advanced flowly and gradually. I his of eration I repeated during every pain; the os externum was gradually dilated, the child's forehead, turned into the lower and back part of the pelvis, and the vertex came out below the os pubis. By this time the tumour occasioned by the diffention of the external parts was become much larger, the perinæum was extended near 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 part of the child's neck, I flood up, turned up the hundles of the forceps, and gently movel from blade to blade, while at the fame time I preffed the flat . part of my hand upon the perinæum, to prevent its being lacerated. Thus I continued pulling upwards, by intervals, until the head was fafely delivered; then taking off the forceps, the body was eafily extracted.

While I was employed in tying the funis, fome of the pupils obferved, through the thin covering, that the woman's abdomen was full very big; and on examinining in the vagina, I felt the membranes and waters of another child, which I brought by the fect, after the patient had taken fome wine wine and water, and recovered of the fatigue of the first delivery.—I used the forceps in this case, as a pair of artificial hands, to assure the delivery, because the pains were too weak to expert the child:

CASES II. and III.

T HE fame year, I and my pupils attended another woman, in labour of her first child, who was reduced to a very weak and low condition by a tertian ague and extreme poverty. I was obliged to affist with the foreeps, in the fame manner as in the foregoing case; but the heid was not fo foon delivered, because the parts were more rigid. One of my female pupils first observed that the abdomen was very large after delivery; and I found there was a fecond child, which was likewise brought by the feet.

At another time, I was called to a woman who was taken in labour of her first child, and reduced to a very low state by violent floodings, with which she was feized in the beginning of labour. According to the midwife's report, I found the mouth of the womb open and back ward, and the waters were not yet discharged. As the patient lost blood very fast, I introduced a finger into the os internum, and brought it forward toward the pubes; and this irritation produced a pain which pushed 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 my fciffars between them, and as the child's head lay at a diftance, eafily fnipped the membranes. The waters were immediately difeharged in great quantity; and as the head came lower and locked up the parts, the flooding diminished, 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 fpoonfuls of the following mixture every now and then, as a cordial :- R Aq. einnamom. fimp. 3v. Tinct. thebaic. gut. x. Syr. e meconio, zij. M.

Her pulle being very low, the prins cerfed for a confiderable time; but by degrees the recovered from the extreme langour oceasioned by lofs of blood. As the difeharge was ftopped, I exhorted the women to wait patiently for the efforts of nature; and ordered the midwife to keep her quiet; and continue to administer the broth by little and little; as her stomach could bear it, until the lofs of blood fhould, in fome measure, be supplied. At the fame time, as the was inclined to doze, I defired that the might have no more of the cordial. These 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 child's head was come low down, it could not be delivered without affiltance. Upon examination, I found the vertex at the os externum, and the back part of the neck at the pubes. The patient, though much recruited, being still weak and the pains languid, I directed the midwife to proceed in fupporting her with the broth, and preferibed a cordial mixture, without any opiate, to amufe the woman and her friends.

I received another 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 not force 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 confideration of her weaknels, I let her ite

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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 exactly opposite to each other, and in a line with the forobiculus cordis, I managed them as in the two former cafes, and delivered the head flowly.

CASE IV.

I RECEIVED a meffage from a midwife, defiring me to preferibe fome medicines to quicken the labour-pains in a woman whom the attended. As I was then engaged, and would not preferibe without being more fully informed of the patient's condition, I fent one of my elder pupils to receive a more perfect 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 requested my affiftance.

As foon as I was difengaged, I accompanied him to the place, where I found this loquacious midwife extremely ignorant, without the leaft tincture of knowledge in her profession. . When called to the patient, whose pains were just beginning in this her first labour, she had walked her about and fatigued, her fo much, that she was quite exhausted, and the pains had entirely ceafed. She faid the had done all that fay in her power to make room for the child, and that her fingers were fwelled and painful with fretching the birth ; but, fhe could not inform me how long the waters had been discharged. Finding, upon examination, the head at the lower part of the pelvis, and the hairy fealp of the child, as well as the os externum of the mother, very much swelled, I ordered her to be put to bed, prefcribed an anodyne mixture of aq. fontan. 3v. tinct. thebaie. gut. xx. fweetened with fugar, directed her to take two fpoonfuls every half-hour, in order to procure fleep, and applied to the os externum a large pultice of loat-bread and milk, with hogs-lard. These swere 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 present. The woman had enjoyed tolerable reft, and the pultice being removed and the parts wafhed, we perceived the fwelling was much abated. We therefore waited feveral hours, in expectation that the pains would increase, so as to dilate the os externum flowly, and effect the delivery. In this hope, however, we were difappointed; then I refolved to affift with the forceps, as the head was fo low down; though it was fo fwelled, that I could not diftinguish its polition, for I could feel neither future, ear, or back-part of the neck. Neverthelefs, I concluded that as it was fo low down, the ears would be to the fides of the pelvis, especially as the fost parts below were protruded by the head, yet not fo much as to allow me to reach to the forehead, if backward, by introducing a finger in the rectum. However, I thought it highly probable that the forehead was backward toward the facrum, rather than forward to the pubes ; and, in this perfuafion, I directed the woman to be laid on her back across the bed, with her breech a little over the fide, her head being fupported by the bolfter and pillows, and two affifiants holding afunder and fupporting her legs. Then I introduced a blade of the forceps on each fide of the head, and gradually affilting as in the foregoing cafe, delivered the woman without lacerating her parts, or even marking the child's head.

EASE

CASEV.

Communicated in a letter by Mr. Puddecomb, at Lynn Regis.

HE was called to a woman who had been two days and nights in labour. and very much fatigued. The pains had left her; and though the head prefented at the upper part of the pelvis, he delivered her fafely of 2 live child, whose head retained no impression or mark of the forceps.

C A S E VI. Communicated in a letter from Mr. Jordan, Folkstone.

THE woman had been for a confiderable time in ftrong labour, fo that her free was excellively fwelled, her eyes ready to ftart from her head, and fhe was hardly able to fpeak. The labia were very much tumified, the vertex prefented, the head was low in the pelvis, and lay diagonal, the forehead being to the fide of the facrum, and the occiput at the mother's groin on the opposite fide, in which fituation it had continued for the fpace of five hours.

After having placed her in a fupine posture, he introduced the forceps, and delivered her of a dead child. As she laboured under a dysuria from the tumes faction of the parts, cataplasms 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.

Communicated by Mr. Brookes, in a letter dated North Walfham.

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 ifchium, but fo ftrongly compressed that he could not raife it. He was therefore obliged to introduce the forceps diagonalwife, fo that one blade was at the fore part of the ear, and the other at the back part of the other 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 furprised when they heard the child cry, as they took it for granted, its life could not be faved.

Mr. Brookes 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 woman's first, could not be delivered by the labour-pains.

NUMB. II. CASE I. FROMANXIETY OF MIND,

B EING called to a patient, the midwife told me that the labour had gone on as well as the could defire; until an officious woman came in, and, in her hearing, faid there was a fire in the neighbourhood. She was fo much alarmed and affected at this report, that the was immediately feized with faintings and thiverings, and her pains in a manner ceafed.

Upon examination, I found the head low in the pelvis, the back part of the neck being at the upper part of the pubes; from whence, concluded, that the forehead was turned to the concavity of the factum, and that the cars were at the fides of the pelvis, all the back and lower part of which was filled up with the parietal bones. The patient being of a weak and lax habit, her pulfe low, and her fpirits depressed in preferibed the folio ing julep:—R Aq. cinnamom. fimp. 3v. Cinnamom. fpirit, 3s. Tinct. castor. Sp. c. c. a gut. xxx. Confect. cardiac 3s. Syr. croci, 3s. M. Of this she took two spoonfuls frequently; by which her strength 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 stronger efforts; for I knew the child was small, because I passed my singers all around the head, which was not retracted after a pain.

I had placed her in a position betwixt fitting and lying, at the bed's foot; one woman being behind to hold up her head and shoulders, and two others on each fide to support her legs, in ho, e th t the weight of the child might affist the delivery; but finding, that although the head was so low, it did not advance, and having waited to no purpose for the effect of a great many successive pains, which I encouraged and endeavoured to increase by firetching every now and then the os externum with one or two fingers, I thought it would be the fafest method, both for the mother and child, to affist as in the former cases of this collection.

Although a fupine polition 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 between to keep them afunder.-Then infinuating two fingers of my right-hand between the facrum and left ischium, to the infide of the os uteri, I with the other introduced one of the blades, turning it forward to the left ear of the child : now withdrawing my right-hand, with which I held this blade, until I pufhed up the fingers of the left-hand at the other fide, between the facrum and right ischium 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 diffended. 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 perinæum over the forehead and face of the child. Then taking off the forceps, the body was delivered, and the play centa coming down was foon extracted.

CASES II. and III.

W Y 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 increafed by the grief produced from this misfortune, that the looked like one flarved by want of fleep, appetite, and digeftion. When labour came on, I was afraid the would fink under it; for the fainted feveral times, and threw up every liquid or cordial that was given to fupport her.

I kept her constantly in bed; and as it was her first child, the os uteri was very flowly opened by the waters and membranes, which luckily did not break until this part and the vagina were fully dilated. As for the os.

externum

externum, which I feared would not fo eafily yield, it was lubricated with romatum, and I every now and then gradually firetched it with my fingers during a pain. When the membranes broke, a large quantity of waters were difcharged; the child's head-being finall, foon came down to the os externum; the pains entirely ceafed; fhe could now keep fome broth on her ftomach, lay a long time quiet and cafy, and enjoyed fome fleep; by which the was very much refreshed.

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 ftrength beginning to fail again, I applied the forceps, and delivered her pretty much in the manner deferibed 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 fhe was in labour, when her mother had beaten, abufed, and exafperated her to fuch a degree, that fhe had become frantic; and in her turn 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 the would not fpeak when the women told her they had brought feveral doctors to keep her in order. I examined as the 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, fome of the gentlemen kept her in that position until I introduced the blades of the forceps as in the two last 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 backward into the concavity of the facrum and coccyx. I afterward pulled at intervals; and as the head advanced, and os externum firetched, 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.

I 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 neceffaries of life, as well as by being fatigued by midwives, who, to use the common phrase, had put them too foon upon labour. Many of these women have, by means of rest and nourishing things, recovered strength, and heen delivered by the labour-pains; though sometimes, when the child's head was low down, and the pains so weak as to prove ineffectual, I have, as in the above cases, used the forceps, without doing any violence to mother or child.

CASE IV.

Communicated by Mr. Ayre, of Boston, Lincolnshire.

W HILE he attended my 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 convultions, and and lay infentible between the fits. He found the os uteri open to the breadth of a crown, and very thin; underflood the membranes were broken; and the convultions acted as labouring-pains. A finall flooding beginning, he tried to affift by firetching the parts, which yielded with fome difficulty; and the head being advanced, he delivered the child with the forceps, which had made a fmall imprefion, though without excoriation.

The woman continued infenfible for three days, but had no fits after delivety, except a few that were flight in the evening; and fhe at length recovered. The child too, which was weak at first, did well,

ĊASEV,

A ROBUST young woman, in the ninth month of her pregnancy, was, without any apparent caufe, fuddenly feized with violent convulfions about fix o'clock in the morning, after having complained all night of a head-ach, and ficknefs at her flomach, with vomiting; which, however, ceafed when the was taken with convultions. About ten o'clock I found her violently convulfed, and the os tincæ a little opened; as the had a florid complexion, and full pulfe, twelve ounces of blood were immediately taken from her arm, a flimulating clyfter was injected, and a cephalic julep preferibed; but notwithflanding thefe remedies, the continued convulfed, and quite infentible. Being called again by the midwife at eight o'clock, I found her extremely low, her pulfe being fcarce perceptible; and upon examination, I perceived the child's head was, by the violence of the convultions, 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 introduced in the manner defcribed above, the woman was readily delivered, and the placenta, which firmly adhered to the fundus ateri, was afterwards brought away. She feemed eafy after delivery, but her pulfe was fo low that it could not be felt, and the expired in about half an hour.

From all these circumstances, it plainly appears, that if the woman had been sooner delivered, she might have recovered, as well as the person mentioned in the former case.

COLLECTION XXVI.

Of difficult cafes from the rigidity of the parts, circumvolutions of the funis, and contractions of the uterus, in which the forceps were used.

NUMB. I. CASE I.

FROM RIGIDITY.

WAS called to a young unfortunate creature, about the age of fifteen, who was in labour. The membranes were broke before I arrived, and the os utcri, which was open to the bleadth of half-a-crown, was very thin, but felt ligid in time of a pain.

Labour proceeded very flowly all night, and when I returned in the morning, I found the child's head low in the pelvis, and the vertex protrading truding the parts below in form of a large tumour, but the os externum was fo firait and rigid, that I could fearce introduce two fingers, and the pains were fo firong, that I was afraid of a laceration. In order to prevent this, I, with the palm of my hand applied against the perinæum, refirained the force of the head, and when the pain went off, dilated the os externum by little and little. However, two 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 fame manner, and in about two hours more, it was fo largely dilated, as to receive about one-third part of the child's head, that pushed out in a conical figure.

By this time the poor creature was very much fatigued, and the pains were become fo languid, that there was no longer occasion to prefs the hand against the external part. Though we continued to encourage her, and support her with caudle and broth, that the parts might have time to dilate, the and they grew gradually weaker and weaker, and I began to be afraid that if assistance should be longer delayed, the might be in danger of her life, for the was every now and then attacked with fainting fits. When her pains began to grow languid, I had placed her in a posture betwixt fitting and lying, with her breech to the bed'sfoot; fo that, without altering her position, I applied the forceps, and with great difficulty delivered her of a child, whole 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.

CASE II.

IN the following year, my attendance was befpoke to a woman in her first pregnancy, turned of forty, and of a thin, though healthy confitution. 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 pushed down in form of a long gut. The waters being difeharged, the child's head, which was finall, advanced downward. pushing before it the os uteri, which was not enough dilated to allow it to This I kept up during every pain, ftretching it with my fingers, pals. 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 ftrength and patience were almost exhausted ; nevertheles, by amusing and encouraging her, she exerted her courage and fortitude for two hours lottger, though to very little purpose. At last, perceiving the pains were too weak to force down the head, and dilate the parts fo as to let it pafs, though about one-fourth part of it was already protruded through the os externum; observing these circumstances, I fay, I tried to introduce the whalebone fillet, described in my Treatife, and alledged it to be an excellent contrivance for helping along the head in fuch cafes. This I endeavoured to infinuate betwixt she child's head and facrum of the mother ; but as it could not be properly fixed fixed over the chin, I withdrew it, and applying the forceps along the ears at the fides of the pelvis, affilted the delivery as in the former cafe.

The child was large, and the head being compressed into a lengthened form, produced convulsions, of which, however, it recovered, in confequence of my allowing the funis to bleed a little.

NUMB. II. CASE I.

FROM CIRCUMVOLUTIONS OF THE FUNIS, OR CONTRACTIONS OF THE UTERUS:

O NE 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 propelled a little farther by two or three fueceffive 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 proceeded from the large fize of the head nor the narrownefs of the pelvis, I concluded it must be owing to the funis rather than to the contraction of the uterus before the shoulders; becaufe this contraction of the head happened immediately after the rupture of the membranes, and before all the waters were evacuated; and I/was certain that it could not be occasioned by the expansion which happens in the abdomen of a dead child, becaufe I plain ly felt it alive by the motion of its head.

Thus convinced, I directed the patient to be placed in a posture between 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 rectum, 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 before, 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; fo that 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 still too high up. I, during the next pain, brought it lower; when, finding I could command the head by preffing my fingers against 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 defcribed in the lingering cafes. The funis being thirty inches in length, was twice circumvoluted round the neck, and once round the arm.

CASES II. III. IV. and V.

ATTENDED 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 every pain, as in the former cafe. Having fixed the forceps, I brought the forchead down below the coccyx; but as her painswere weak, and this was her first child, I kept on the instrument until one-third of the head

head was without the os externum; and I found I could eafily keep down the head by prefling my fingers against the external parts on each fide of the coccyx. After having taken off the forceps, I; during cach fucceeding pain, prefled the head upward with that hand, while with the fingers of the other I flipped the os externum over the child's head. The funis was uncommonly flort; and once round the neck:

At three in the morning I was called to a woman in labour, by a midwife, who told me the waters had been difcharged two days, even before the os uteri was much opened; that after this difcharge the pains were lingering, and fome part of the waters continued to dribble until the evening before I was called, when the head came lower down; but now it was after every pain drawn back out of reach, and the pains were grown much ftronger. I took the proper opportunity of examining, and found the head propelled to the middle of the pelvis by every pain; after which it was drawn back to the upper part:

After having feen her undergo feveral strong pains, by which the head was not at all advanced, I eatily introduced my hand into the vagina of the patient, who had boren feveral children ; and as the pain abated, raifed the head fo high above the brim of the pelvis, that I could pass 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 ftrongly contracted. I continued to push farther up and dilate the part; so as to be able to bring the child by the feet; but finding this expedient impracticable 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 afterwards retracted to the middle of the vagina. However, having fucceeded to 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 easy talk to affist the delivery; I had recourse 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 not alter her polition, but brought her breech to the bed-fide, and moved her head to the upper and back part of it; then fitting in a low chair behind the patient, the forceps being privately difpofed; I eafily introduced the fingers of my right-hand to the os uteri, between the pubes and head of the child, which was finall, 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 llead and the facrum; carefully turning back the handle in order to humour its curve; and being certain that the inftrument was well fixed, pulled gently from blade to blade, and kept the head from being retracted as the pain abated. I continued to affift in this manner during every pain; until the occiput was brought to the lower part of the right ifchium; then turning the forehead into the concave part of the facrum, the ceciput came out from below the pubes, and the head was flowly delivered.

We had a public cafe of this nature, at which my pupils attended. The waters had been long difcharged before the head was forced into the pelvis, and we managed the labour in the cautious manner deferibed above; yet after I had dilated the parts, and applied the forceps, I could not, by repeated trials, bring the head through the os externum. Being affured from experience, that the obstruction proceeded either from the coutraction of the uterus or the detention of one shoulder above the pubes, and not from a tumefaction of the abdomen, because I felt the pulfation, though very weak.

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weak, at the fontanel, I difengaged the inftrument, and, raifing the head again, found the difficulty was owing to the left shoulder being over the pube. As the woman lay on her back, I introduced my right-hand, but could neither force the fhoulders to the right fide of the pelvis, nor puft the child farther up, fo as to bring it by the feet, though the head was not large. I then withdrawing my right, introduced my left-hand on the other fide, and raising the head, tried gain to push up at the anterior parts of the child, so as to reach the feet; but failed once more from the strong contraction of the uterus. However, 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 pelvis. I turned the right-arm to the right fide of the facrum, the pains being weak, again fixed the forceps; which I moved in a proper manner; and pulling gently at the hand, 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 discharge of the waters, the head was forced low down by every pain, but afterwards drawn up again. I was likewife informed, that formerly she used to have large children and quick labours. Encouraged by this intimation, I tried to turn the child, 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 shoulders. This last 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 days. The funis was three times round the neck, being much tumified, and of a livid colour.

COLLECTION XXVII.

Of laborious cases, occasioned by the large fize of the child's head, the narrownefs or differtion of the pelvis, when the head is low and delivered with the forceps.

> [Vide Part. i. Book iii. Chap. 3.].

NUMB. I. CASES I. II. and III. FROM THE LARGE SIZE OF THE CHILD.

Y attendance was befpoke to a woman who had loft her first child in confequence of its large fize. This fecond labour went on in the ufual way, until the os uteri was largely opened by the waters and membranes, which breaking, the vertex 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 pain-began to recur every now and then; and a good deal of water being difcharged, they returned ftrong and frequent; as for the patient, whofe conftitution was weak, I kept her mostly in bed.

The parietal bones began to ride each other, the hairy fealp became loofe. and wrinkled, and the head was gradually and flowly fqueezed down to the lower part of the pelvis, where it remained for a confiderable time. The occiput was strongly presed against the lower part of the right ischium, the fontanel being at the upper part of the left; but the head was fqueezed to,

o great a length, and fo firmly compressed against the infide of the pubes, that I could not reach the ear with my finger.

After many ftrong pains, the patient's ftrength and spirits began to flag; and both the and the friends became apprehensive that this child also would be loft, notwithstanding the encouragement I gave, by telling them, that I had delivered many women of live children after they had been much longer The force of the pains was by this time abated ; yet every now in labour. and then the was taken with one ftronger, that forced the heid a little lower, fo that | could feel the child's left ear toward the left groin of the mother, At length the patient being still more funk, and perceiving no farther advance toward delivery, I incroduced the forceps as the lay on her fide; and during every pain tried to bring the head lower, and turn the forehead backward to the facrum. But in this attempt the inftrument beg n to flip. to that I was obliged to unlock the blades, and move each up ward again over the cars ; the handles being fixed and tied with a garter, I turned the patient on her back, and directed an affiftant on each fide to support the legs; matters being thus disposed, I waited for a pain, and gradually de-livered her as in former cases. The child, whose head was squeezed into a lengthened form, seemed at first to be in a convulsion, but soon recovered in confequence of my letting the funis discharge about two or three spoon. fuls of blood.

I was called by a midwife to a cafe refembling the former, and tried the whalebone fillet (vide tab. xxxviii.) which I could not get over the chin; fo hat finding the principal hold was on the face, I withdrew it, and waiting fome time until the patient and the pains grew weaker, I applied the forceps, 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 exert fo much force as was requifite for delivery, left the part of which I laid hold fhould have been galled to the bone; for I knew one inftance in which the fillet had been ufed, and actually fealped 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, protruded without the os externum. She had been in a flow kind of labour all Saturday and part of Sunday, when the membranes breaking, the pains became throng, and continued fo all Sunday night; by thefe the head had been pufhed down, but did not advance farther than the fituation in which I found it on Monday night.

The patient was much exhausted by farigue and the length of the labour. Her pains being languid, I preferibed a cordial mixture, with confect. cardiac, and flowly dilated the os externum during every pain. By thefe efforts the pains grew stronger, and I expected the head would foon be delivered. But being difappointed in my hope, I thought it was pity the woman should be kept any longer in such a difagreeable way; and as she lay on her left fide, I endeavoured to raife the head, fo as to know its possition. I failed, however, in my attempt, and there was no room for introducing a finger or two to feel either the neck or car at the pubes; though, as the head was so low down, I thought it was probable that the ears were to the fides of the pelvis. I then directed her to be turned on her back, and supported by affistants, as the patient in the former case; and fat down with a resolution to deliver, either with the forceps or crotchet, in order to save $Q \neq 2$

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the woman's life; though I determined to try the forceps first, that the child alfo, if possible, might be faved. As the head, which was compressed into a great length, filled up all the lower part of the pelvis, fo that I could not introduce my fingers to guide the blades of the forceps on the infide of the os nteri, I attempted to introduce them feveral times, until I was certain that they were fafely pass this place, 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 last delivered the woman of a dead child, whose head was squeezed to a great length.

CASE IV.

A WOMAN, in labour of her first child, had undergone lingering prins all Sunday night, and I was called next morning at feven. But the pains being inconfiderable, the membranes unbroken, and the patient referved, I was not allowed to examine until ten, when the pains grew stronger. Introducing my finger into the vagina, I felt the rectum full of indurated fæces, the os uteri fost, thin, and pretty open, the waters pushing down the membranes; and when the pains went off, the child's head resting against the upper part of the pubes.

I immediately prefcribed a clyfter, which operated to fatisfaction; and as fhe had enjoyed fome fleep in the fore-part of the night, I defired fhe might rife until the bed could be prepared before labour fhould be far advanced. Every thing proceeded in an eafy and flow manner, and fhe took her pains in an eafy chair, till about twelve, when fhe was pretty much fatigued. I then directed her to take fome pains on the bed, and now felt the os uteri largely opened, the membranes pushed down large and full to the os externum; but the head was not at all advanced.

Judging from this circumstance that it was large, I would not allow her to be put in naked bed too foon, becaufe if, after the rupture of the membranes, the head fhould not come down without difficulty, it might be neceffary to affilt the delivery by different positions ; and in the mean time, as the pains were strong and frequent, I directed them to get ready cloths to receive the waters as the lay on her fide, for I now expected 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, I allowed her to rife and walk about ; and the took her pains fometimes in a standing and fometimes in a fitting polition; though, in order to prevent her being fatigued, fhe every now and then rested on the bed, half fitting and half lying. By these means the pains increased, and at two next morning, the head was advanced to the os externum and lower part of the pelvis. That it might not be detained too long in this fituation, I began to dilate the os externum a little during every pain; and thefe efforts kept up the pains, which were become languid, in confequence of the fatigue fustained by the patient. The head was not at all advanced farther at four o'clock, when I plairly felt the occiput strongly pressed against the lower part of the left ischium, the parietal bones riding one another, the head, which was large, fqueezed to a great length, and one of the cars at the pubes. Perceiving the pains were not ftrong enough to push the head farther, so as that the occiput might rife from the ischium to the frace below the pubes, and the forehead tyined back into the hollow of the os facrum; and knowing that I could cafily affift and alter the pofition with the forceps, I thought it was pity that the mother and child fhould

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fhould run any farther rifk; and ordering her to be put in bed naked, I appliel the inftrument, and delivered the child, as in col. xxvi. No. ii, cafe iii.

CASES V. and VI.

WOMAN had been in Libour of her fecond child, for many hours after the os uteri was largely opened, and the membranes had broken. and the midwife had affured the friends, that the head would be delivered by each fucceffive pain. At length, however, the patient's ftrength beginning to fail, they fent for me 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 supine posture, and as she 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 compressed into such a lengthened form, that I could not push up my finger at the pubes, to feel the ear or neck; neither could I diffinguish the fituation of the head by the futures, because the scalp was fo much fwelled; nor could I move the head upward, in order to feel the upper parts, fuch as the ear, neck, or face. But fuppoling, from the touch of the lower part of the head, that one part preffed more against the left ifchium than the right, I concluded that the forehead was at the right fide of the facrum, and the occiput stopped between the ischium and groin. ln. 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 lower, when I delivered, as in col. xxvi, No. ii, cafe i.

In the following month, my affiftance 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 diffinguifh its true polition; nor could I raife it fo as to examine higher up. Neverthelefs, as it was very low, I fuppofed that the ears were toward the fides of the pelvis; and having laid her in a fupine pofture, I introduced the forceps, infinuating one blade on each fide, as ufual. But the head fluck 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 first of all tried to move the occiput downward, and turn the forehead back to the facrum, with one blade of the forceps.

NUMB. II. CASES I. and II.

FROM A SMALL OR DISTORTED PELVIS, WHEN THE CHILD'S HEAD IS LOW.

M Y attendance was befpoke to a woman who had before loft a child, which was fuppofed to have been too large to pass through the pelvis; for for the was of a fmall make and flature.—She was taken in labour when I happened to be engaged, so that I was obliged to fend a midwife to attend her; and before I could fee her, the membranes 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 mostly in bed to prevent her being fatigued, and I advifed her to continue in the fame fituation, until the complained of being weary of that polition, and of violent cramps in her limbs. Then getting up, the walked about the room, and took her pains fometimes standing and fometimes fitting; though I defired the would not fatigue herfelf by walking or ftanding too long, nor force down, except when the pains were strong. In this cautious manner she was managed all night, during which the refted at intervals upon the hed, until the was compelled to rife by the violence of the cramps that feized her as the lay; and as lexamined every now and then, I found the head advance by little and little, every third or fourth pain, which was ftronger than the reft. At fix in the morning, the vertex was prefied down to the lower part of the pelvis, below the right ifchium; but at eight it had made no farther progress, though it was fqueezed to a great length, and the purietal bones rode one another. By this time the patient was very much fatigued, her pains were become weaker, and at fmall intervals the was fubject to retchings, which, however, fupplied the defect in the labour-pains, by forcing the head to low as to protrude the perinæum and adjacent parts, in form of a large tumour. I waited fome time, in hope that this extraordinary affiltance 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 effectual expedient; and the child's left ear being to her left groin, and the forehead at the left fide of the facrum, I moved her breech to the bed-lide as the lay on her left fide, introduced the forceps al. n ; the ears, as in collect. xxv. No. ii. cafe i. and in that manner fifely delivered the woman of a live child, which had been retarded by the finallness of the pelvis, though it was not at all distorted.

I was afterward called by a midwife to a woman of a fmall flature, about ten in the morning, when I found the vertex at the lower part of the left ifchium, and the head fqueezed into a longitudinal form, as in the preceding cafe; as for the waters, they had been draining off for fome time before I arrived.

The patient being pretty much exhausted, was put in bed; and as she had been feized with a loofeness at the beginning of labour, and enjoyed no sleep the preceding night. I prescribed an anodyne mixture of tinct. thebaic. gut. xv. & syr. e meconio iij. in aq. simp. 3vis. of which the took two spoonfuls immediately, to be repeated occasionally until rest should be procured.

This prefeription had the defired effect; and next morning about eight, I was called, and informed, that although the pains had been fironger, the head was very little advanced. I now felt the vertex had made fome progrefs; the occiput was turned below the pubes, and the forehead to the facrum, though not fo low as that I could affift with my fingers in the rectum or at the fides of the os coccygis. The pains were likewife become weaker, and the patient's firength 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, I directed her to be placed in a fupine position on the bed, and with the forceps delivered her of a dead child.

C'ASE III.

I WAS called by a midwife to a woman who had been fickly from her in-fancy, and very much difforted. The membranes had been, broken, and the waters difcharged feveral days before the was in labour, and the midwife; who had attended her fince the preceding morning, affured me fhe had been in fitong 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 part of the pelvis; but when I introduced a finger betwixt it and the pubes, I could not reach fo high as to feel the ear, nor could I diffinguish by the futures, the right fituation of the head. Neverthelefs, the patient being weak and low, I directed her to be laid across the bed, in a fupine position, 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 using fuch violence as might be prejudicial to the mother and child, I withdrew the inftrument, and refolved to wait a little longer, and as the patient had flept but very little for two nights, and was much fatigued, I preferibed an anodyne draught, by which the procured reft, and was refreshed. Then the pains returning, and forcing down the head, fo as to protrude the external parts, I received another call, and found the back part of the neck at the pubes : from this circumstance, I knew the forehead was in the hollow of the facrum, and that the ears were to the fides of the pelvis; I therefore, after having allowed her to take a few pains, which were weak, confidered, that as the head was low down, the affiftance of the forceps might prove effectual, in helping it along; fo having placed her in the polition defcribed above, I introduced them along the ears of the child, and by pulling gently every pain, delivered the head, which was fqueezed to a great length; but the os externum was fo rigid, that half an hour elapsed before it could be dilated fo as to let the head pass without laceration.

After delivery, I infroduced my finger into the vagina, and found the pelvis fo difforted, from the jutting forward of the upper part of the factum, that had the child been large, its life could not poffibly have been faved. The head was of a length ened form, and contorted to one fide, and there was a deep imprefion at ove the ear. The forceps too, when first fixed, had impreffed the forehead, though the mark difappeared in five or fix days to but they made a very inconfiderable imprefion when they were fixed the fecond time along the ears.

CASES IV. and V.

A MIDWIFE called me to a woman, whom the had formerly delivered of a dead child, and the faid the had, on that occation, felt an uncommon bump backward. When I examined her, the membranes were broken, and the child's head was funk down to the middle of the pelvis, where it was retarded by a jutting in at the middle of the facrum; for. inficad of feeling it concave, I found a prominence, as if one of the bones in the middle had been putted before the reft; and the vertex of the child feemed to be preffed down in a flattened form, by the woman's pains, which were firong and frequent.

I was called about three in the morning, and preferibed fome innocent things to amufe the patient and her friends, who were extremely anxious, and went away, after having defired that the might not be hurried about or fatigued. I received another fummons about nine, when I found the vertex

vertex squeezed down to the lower part of the pelvis, the woman exhausted, and her pains abated. As I at that time imagined, with others, that in labours the forehead was mostly to the facrum, and the ears to the fides, I caufed the patient to be laid across the bed on her back, as in collect. xxv. No. i. cafe i. and applying the forceps along the head, at the fides of the pelvis, tried, during every pain, to help it along, that the child might not be loft. As the relitance was great, I gradually increased the force, and though the forceps flipped feveral times; I at last delivered the head, by grafping the handles more firmly, and pulling up toward the pubes. But the perinzum 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 squeezed into a longitudinal form; flattened on the fides; with a deep impression on 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 and the occiput, I difeovered that the ears were not to the fides as I had imagined. These impressions had very much galled and inflamed the parts; but, in confequence of proper care; they digested, and the child recovered; and as he grew up, the marks diminished and disappeared. I told the midwife and nurfe, that the patient's perinœum was cracked, and defired they would not make her uneafy, by informing her of an accident which would be attended with no bad confequences. Accordingly; the parts were perfectly healed in the fpace of twenty days.

A midwife demanded my affiftance in behalf of a woman, whom the had once before delivered, with difficulty, of a dead child, in the eighth month. In this labour, the membranes were no fooner broke, than I received a call, and found the pains flrong, the child's head advanced to the middle of the pelvis, and the vertex gradually defeended to the lower, part of the ifchia, which feemed remarkably near to one another. The head being luckily finall, and the occiput to the left ifchium, I refolved, after having waited a confiderable time, to turn the forehead backward to the os faerum, on the fuppolition 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 pubes, and the other at the facrum, along the child's ears, and with great difficulty turned the forehead to the faerum ; but before I could deliver the head, I was obliged to alter their polition, fixing one behind the left ear, and the other before 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 of its large fize.

CASES VI. and VII. Communicated by Mr. J----, of G-----;

THE membranes had been broken, and the woman in ftrong labour 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 confidered, 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 large, and the forehead was to the right fide; he introduced the blades of the thort forceps, that were covered with leather :

leather; but being afraid that the handles were too fhort, 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, however, that the forceps did not flip, but kept a firm hold, he refolved to try and make one effort more; and after pulling with all his ftrength, and moving the handles of the forceps over the pubes, he got the head delivered, yet not without bending backward that blade of the forceps that was next to the pubes. She was delivered of a dead child about noon. In the evening the 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 opietes; but that evening the was comatous, and expired next morning. He fuppofed the last bad fymptom was occasioned by their giving her, without his knowledge, half a pint of rum at two draughts.

As he defired my opinion of this melancholy cafe, I wrote him the following letter, with another cafe of the fame kind :---

"SIR.

" I received your's, which I ought to have answered before this times Since you attended me, I contrived the last forceps with shorter handles, on purpose that too great force might not be used; and when they are not fufficient, I would then open the head, and extract with the crotchet. No doubt I fhould perhaps have been tempted even to ufc as great force as you did, when there was to good a hold; but yet you may confider how much the foft parts of a woman must fuffer, by the bending fo strong an instrament aga nft them as the blade you fent me. If you had been fooner called, to prevent the woman being over-fatigued till the head came 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 cannot, or dare not, turn the child, and the woman in danger from extreme weaknefs, it is right first to' try the forceps; but when you find it will not come along with a moder te force, the crotchet must be used, 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 your's. The membranes 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 he fent for me, and I was allowed to carry along with me four pupils. The ears were to the pubes and facrum, the forehead to the left fide, and the upper part of the os facrum jutted in forward. As I could not turn the forchead with my hand a little backward, or part the blade of the forceps along the ear at that part, I introduced it behind the car at the fide of the os facrum, and the other at the fore part of the pelvis toward the left groin, and before the other ear, fo that the forceps was fixed diagonally on the head, and the fame as to the pelvis. I used a good deal of force, by which I delivered the head, taking care to make the feveral turns in extracting it. 'I he child had been dead many hours, the head was large, and fqueezed of a very long figure, and the parts of the woman very much fwelled. She was attacked with a violent loofenefs, which was reftrained by proper remedies, and the recovered flowly. When the parts are inflamed, and much fwelled, the lochia fometimes are obstructed, and fall upon the intestines; efpecially if the patient has been exhausted by a redious labour.

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CASE

[PART II.

CASES VIII. and IX.

Communicated in a letter from Mr. Ayre, of Boston, Lincolnshire.

T HE 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 force during every pain; but the forceps flipping, 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 first children; the ears were toward the pubes and facrum, and one of the women was very fat, and about forty. He delivered both 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 using great force, 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 gentleman 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 backward, he pulled it along as it prefented; finding, that as the vertex pulled out the perinæum, it was beginning to tear, he took off the forceps; and the head was afterwards delivered with the labour-pains, and both mother and child did well.

COLLECTION XXVIII.

Laborious cafes, in which the vertex prefenting with the forehead to the pubes or groin, the patient was delivered with the forceps.

[Vide Part i. Book iii. Sect. iv. Chap. iii. Nº ii. and Tab. xxi.]

CASE I.

WAS 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 much tumified, I could not diftinguifh by the futures the real polition of the head. The woman being much, exhautled, the pains weak, and the head low, I thought it was proper to affift the delivery, to prevent her and the child from being in danger. For that end, I caufed her to be placed in a fupine polition, as in col. xxv. No.i. eafe i. I then, during every pain, dilated the os externum, raifed the head above the brim of the pelvis, and introduced my fingers and hando flattened 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 polition of the head, I first tried to turn the forehead toward the pack part of the pelvis, and, failing in the attempt from the flippinefs of the faune, I endeavoured to bring the child footling; failing in this effort alfo, from the flrong contraction of the uterus, I withdrew my hand, and and applying the forceps along the cars, used a good deal of force to extract the head 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 perinæum and anus, which were now greatly ftretched. Then I difengaged and brought down the forceps, and introduced 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 forehead 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 forehead coming out, either with ftrong labour or the forceps; but the bad confequences that might enfue both to mother and child, made me afraid to continue in this method of practice. For the perinzum was commonly tore, and that part of the child was fometimes fo much bruifed as to produce a violent inflammation, which destroyed the child; but a lucky incident which happened the year following, gave me thehint of a better method, as in the following cafe.

CASE II.

A MIDWIFE called me to a woman in the morning, who had been most of the night in strong labour. I felt the vertex at the lower right fide of the facruin. Her pains were still pretty strong, although she had loft, both before 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. cafe i. I intro-duced 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 pull 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 these efforts, the forceps slipped off three times ; though I did not observe, till afterwards, that one of the blades, by giving way, was the occasion of their flipping off the head. As I found I could not deliver the head, by pulling either downward to bring out the forehead, or upward, because the head would not yield that way on account of the chin being preffed against the breast, neither did I choose to try the blunt-hook, because of the bad confequences attending that method. I was also averse and loth 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 wideft, an expedient which I immediately exccuted with greatar ease than I expected, I then brought down the vertex to the right ifchium, turned it below the pubes, and the forehead into the hollow of the facrum ; and fafely delivered the head, by pulling it up from the perinaum and over the pubes. This method fuceeeding fo well, gave me great joy, and was the first 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 opened to a new field of improvement on the method of using the forceps in this polition, as well as in all others that happen when the head prefents.

CASE

CASE III.

TATTENDED, with my pupils, one of our women in Drury-lane; the I membranes had broken in the evening, and the had frequent and throng pains all night. When they fent for me in the morning, I felt fomething like the vertex down at the lower part of the pelvis; and the was much in the fame condition as the woman defcribed in collect. xxv. No. i. cafe i. Bu* we were all miftaken as to the position of the head ; for I, as well as the pupils, imagined, that, as the head was fo low, the forehead mult be turned back to the lower part of the facrum; and that, on account of the head being fqueezed to a great length, we could find neither neck nor ear at the pubes. We were likewife millaken as to the futures, fuppofing what was called by the ancients the back fontanel, where the lambdoidal croffes the end of the fagittal, was the fore fontanel, which was backward toward the facium. I told all prefent, that as the head was fo low down, and the delivery retarded by the weakness of the pains, it was fafer for both woman and child to deliver her with the forceps; especially as I was pretty certain of fucceeding without doing injury to either, being confident, as the had formerly quick and eafy labours, 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 her then put in the fame position, and a plied the forceps in the fame manner, as in the forementioned cafe. I then pulled gently every pain, and the woman being exposed to show the operation, I was furprized to see what 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 within the pubes. As the head was now fo far advanced, I thought it would be better first to vry to bring it along in that manner; therefore I continued to pull along gently, but inflead of pulling upward as before, to raife the head from below the os pubis, I pulled downward, to bring the forehead and face out from helow that bone; they accordingly flipped out gradually, and when the chin was delivered from bele . 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 those cafes where the face prefents. Vide col. 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.

CASE IV.

A MIDWIFE called me to affif her with a patient, and informed me that the had delivered the woman feveral times, and her labours were commonly tedious from her having large children; but that this was worfe and more tedious than any of the former; for although the waters were a long time come off, and the head had been low in the bafon for many hours, fo that the expected every pain would deliver the child, all endeavours had proved ineffectual, and the head fent for me, becaufe the was afraid of both mother and child. She alfo told me, that the imagined the head did not prefent right, for the found the opening at the fhare-bone, and imagined this was the occation of the difficulty. On examining, I found it as the had related, and was much pleafed with the midwife's honeft behaviour and fagacieus remark. I felt alfo the vertex backward, putting outward the o- coccy gis and fundament. Although the pains were much abated, and weaker,

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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 her a cordial mixture, and waited with patience to try if the head would advance farther, that the forehead and face might by that means pufh out below the pubes; but finding it did not advance, and that the pains were not fufficient, I thought it was proper to use the affistance of the forceps. I then had her placed as in the former cafe, opened the os externum gradually with my lingers, fcoored up the head above the brim of the pelvis, and as i flipped my hand flattened betwixt the facrum and the child's head, I felt with my fingers the back part of the neck, which more fully confirmed the midwife's opinion and mine, of the forchead being toward the pubes. After I had brought down my hand, and found no advantage from feveral following pains, I introduced the forceps along the ears; having fixed them, and preffed the handles as far back as the perinæum would aliow, and tried to bring the forehead and face below the pubes, by little and little, every pain, could not fucceed. Thus disappointed, I pushed 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 ischium; 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.

Those cases in which the vertex presents with the forehead 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 frænum 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 woman becomes low and weak, the forceps will affift where the pains are infufficient. But if the head is large and fqueezed to a great length, those parts will feldom ftretch 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; belides, if the head ftops there a long time, the child is frequently loft by the long compression of the brain, exclusive 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 those cafes where you cannot alter the wrong polition with your hand, or one blade of the forceps, or turn the child and deliver by the feet.

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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 refreshed her much; but after waiting a long time, and the woman growing weak, and falling into faintings, he tried to dilate the parts during every pain; and at last found, that what obstructed 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 forehead to the fide and back part of the pelvis; yet, by dint of pulling with great force, he at last delivered the head as it prefented. The child was alive, and the mother recovered. He fent me an account of two other cafes, in which the head prefented fair, but as the women were much fatigued and weakened before he was called, he delivered each with the forceps, 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.

COLLECTION XXIX.

Laborious cafes of women delivered by the forceps, the vertex prefenting, the car to the pubes, and the head higher in the pelvis.

$$C \quad A \cdot S, E \quad I.$$

WAS called to a poor woman, who had been deferted by her midwife, fo that I received but an uncertain account of the cafe. I was told in general, that the had loft 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 mostly abated, I ordered her to take fome broth, or brown caudle, to support and nourish her. Having fent for those who were under my inflructions, we attended some time to fee 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, by affifting the delivery with the forceps, efpecially as the had formerly bore children, and the head was fmall. The ears being to the pubes and facrum, I kept her on her fide, 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 forward to the pubes, the thighs of the woman being kept afunder by a thick pillow, placed betwixt the knees, at the fame time fupporting the perinœum with one of my hands, to prevent its being I hus the patient was fafely delivered of the child, and afterward of toren. the placenta; for though the continued long weak, the at length recovered, The child appeared to have been dead three days, the lips and forotum being livid.

WAS called to a woman in Parker's-Lane, who, as the people about her alledged, had been in labour eight days; they faid three midwives had attended and left her; that fhe was very poor, and in a flarving condition. I found the head of the child, in time of pain, pufhed down with its vertex to the lower part of the left if chium: but after the abatement of the pain, which was very weak, it was retracted to the upper part. As this was in the middle of the day, I feat for fome broth and bread from a cook's fhop, in order to refresh her. I found by her own relations, that the midwives had all tried to deliver her by hurrying and placing her in different politions:

tions : that fhe had got little or no fleep for two nights ; that the waters came off the preceding day, and her pains had never fince been stronger. Her pulfe was weak and low, but on taking a little nourifhment, fhe recovered fome strength. After having fent for those who were under my instructions in midwifery, I left her to the care of one of the elder pupils; adviling 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 she could be delivered by the labour-pains, which I hoped would grow ftronger after the thould have enjoyed fome refrething fleep, and her ftrength thould be recruited by nourifhment. I was called again about one o'clock next morning, when I underftood she had every now and then slept betwixt the pains, which recurred at long intervals, and were still weaker than I expected, confidering that her ftrength and fpirits were much recruited. I found the head was in the fame fituation, and still drawn back as before. After examining more narrowly, I could eafily feel one of the ears at the pubes, the fore-part of it being upward 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 weakness of the pains, which had not force sufficient to overcome that refiftance; that I did not queftion, as fhe was now ftronger, they might in time be fufficient without any other assistance; 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 on 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 pushed out with the head in form of a large tu-This being the woman's first child, the frænum felt very rigid, and mour. was stretched with difficulty; and the perinzum and parts about the fundament and os coccygis felt still 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 last fo much dilated, as to allow the head to pass and be delivered, as described in the last-cited cafe; but more than half an hour elapfed 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 perinzum, 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 edge, and was lengthened to more than three inches.

CASE III.

A BOUT feven in the morning I was called to a woman near the Seven Dials. The midwife told me, that when fhe was called the preceding evening, fhe had found her in pretty ftrong labour-pains; that about twelve the waters came off; immediately after the difcharge of which the patient was thrown into violent convultions, which went off and returned three or four times; and fhe had dozed and lain flupid betwixt the fits. I examined, and found the head of the child lying much in the pofition deferibed above; only only the head was lower down, and the occiput to the under part of the right ifchium. I could also plainly diftinguish the lambdoidal crossing the end of the fagittal future, the head fqueezed to a longifh 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 the was thrown into a fit, which lasted 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 circumstance in time of the former fits, but told me that it had continued in that position without advancing for two or three hours. As the woman's pulfe was quick and full, I ordered her immediately to lofe cight 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 quite 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 position, but about an inch lower, and I now could feel the ear at the pubes. I tried to firetch 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 flie was attacked with another fit, which was very violent, continued longer than the former, and had much the fame effects. I then confidered, that although it was probable the repetition of these fits might act in the same manner as labour-pains, and deliver the child, yet the continuance of them might still more and more endanger the life of the woman. Therefore I eafly ftretched the os externum as the 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 externum 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.

CASE IV.

B EING fent by a relation to fee an unfortunate woman, who was pretty old, and in labour of her firft 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 polible. The membranes 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 diftinguith the pofition of the head from the futures, the hairy fealp being fo much fwelled. However, I judged that the forehead was to the left fide of the pelvis, from feeling a part of the head preffed ftrongly againft the lower part of the right ifchium, and floping upwards to the middle of the left; I could but juft reach the tip of the ear at the pubes with my finger, the head was fo large, and fo ftrongly compreffed againft that bone.

I was informed that the pains had been very ftrong, though now they were weak, and recurred at long intervals. Her pulfe was funk, and fhe was

was taken with faintings and fickness at her stomach, which produced violent retchings. Thefe, however, fupplied the place of labour-pains, and affisted the delivery by forcing down the head. 'To encourage these efforts, as well as to recruit her ftrength, I directed her to drink every now and then a little warm wine and water; and in this manner she proceeded for about an hour, when finding the head had made but fmall progrefs, and being afraid that her ipirits would fail, I thought it was most expedient to call in the affiftance of the forceps. After having gradually dilated the os externum, as the 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 polition and was supported in the fame manner described 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 steams might mitigate the cold, to which she was more exposed in this than in the other polition.

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 pofferior part of the neck at the right fide; and diffinguished that the pelvis was not difforted, 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 fpace below the pubes, and over the child's ear. The inftrument being locked, I prefied the occiput from the right ifchium with two fingers, while I gradually turned, as I pulled, the forehead backward to the facrum, and delivered the woman with the fame precaution I had obscrived in the second cafe of this collection.

GASES V. and V.I.

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BETWIXT eleven 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 prevented the child's head from coming along, and had been the occasion of her losing two children before; and that, as the pains were grown weaker and the woman was much fatigued, fhe had defired the relations to demand my affiftance. I found the head pretty nearly in the fame polition 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 she had been put too foon upon labour and was over-fatigued, I defired the would lie quiet in bed, without forcing down, except when the was 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 being low, and the labour-pains weak, I preferibed the fol-castor. gr. x. Sal volat. c. c. gr. vi. Syr. e meconio 3fs. M. fumat. cochlear. 11 statim, ct repet. omni semihora.

In confequence of this prefeription, fhe lay quict and flept between the pains, fo as to be much recruited by fix next morning, when I received another call. The head feemed to be but finall, although it was fqueezed down to a conical and flat form. As the had formerly loft two children, I refolved

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refolved to attempt the faving of this, especially as I could eafily feel the car 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 obstruction proceeded from the projection of the upper part of the facrum with the last vertebra of the loins; at the fame time I felt the back 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 facrum, 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 delivered her pretty much in the fame manner deferibed in the preceding cafe.

CASE VII.

M Y attendance was befpoke to a woman who had been ricketty in her youth, and was very much difforted. The labour at first proceeded in a gradual manner, the membranes pushing 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 difforted; and with my finger felt the projection of the last 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 position. I had been called at ten o'clock at night; the membranes broke about four in the morning; at fix in the evening she began to be very much fatigued; by this time the head was squeezed 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 the might not be over-fatigued; and the took her pains, lying fometimes on her back and fometimes on her fide.

About three o'clock in the morning the head, fqueezed 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 finger at the pubes, to feel the ear. But the patient being exhausted and weak, I introduced the forceps in the manner deferibed in cafe v. and tried to move the head fo as to turn the forehead to the facrum. These endeavours proving ineffectual, I withdrew the inftrument, and waited till about fix o'clock, when the head was preffed a little lower down; then having recours to the forceps again, I fucceeded, and fafely delivered the woman, as in cafe ii. and v. yet the complained very much of the differition and contustion of the parts. As for the child, it was dead; and its death, in all probability, occasioned by the long compression of its brain. Its head was fqueezed to a very extraordinary length; a circumstance from which I at first imagined it was lower in the pelvis than it afterwards appeared to be.

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CASE VIII.

MIDWIFE, who had formerly attended a woman of a fmall fize, in a labour which had been very tedious from the difficulty in bringing along the head of the fœtus, which was ftill-born, the head being compresented to a prodigious length, and the woman's life greatly endangered; in order to avoid confure, and prevent as much as in her lay the bad confequences that might attend her fecond labour, flic had recourfe to my affiftance. The patient being a poor woman, I went, accompanied by three of my pupils, and found the child's head pufied down but a very little way into the pelvis, the forehead refling upon the left fide of the upper part of the os facrum, and the hind-head againd the right groin. We likewife felt the fagittal future running along toward the left of the os facrum, and the hairy fealp of the fœtus 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 posterior part of the pelvis, felt the left ear of the child, by which I knew the forehead was toward the back, though a little to the left fide of the woman; I at the fame time felt the upper part of the facrum and loweft vertebra of the loins projecting fo far forward as to reach within three inches of the offa pubis. 'I he pains being still pretty strong, I waited fome time to fee if the head would advance, but it made not the least progrefs; the pains and patient grew weak, and the uterus was firongly contracted. As the former child had been loft by the long preffure on the brain, I refolved to try the forceps; and should that method prove ineffectual, as I feared it would, to open the head and deliver with the crotehet. Having therefore introduced the steel extractors, which on this occasion I preferred to those made of wood, I fixed them along the fides of the ears ; and pulling downward, at first, with a good deal of force, when I found the head defeend 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 my pupils to prefs the flat part of his hand against the perinæum, which was very much diftended, 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 impression which they made was very inconsiderable. As for the woman, she recovered much better than I could have expected. 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 distance between the projection of the lower vertebra of the loins and the os pubis did not exceed three inches.

I had before this occafion contrived a particular kind of wooden forceps, with which I had delivered three patients; but I now fubfituted fleel covered with leather in the room of wood, which is not fo durable.

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[PART II.

COLLECTION XXX.

Of laborious cafes from the prefentation of the forehead or face, in which the women were delivered by the forceps.

[Vide Part i. Book iii. Chap. iii. Sect. iv. N° iv. and Tab. xxii. xxiii. xxiv. xxv. and xxvi.]

xxv. and xxvi.j

CASES I. and II.

WAS called by a midwife to a woman in Windmill-Street, who formerly used 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 fontanel to the right. In this fituation I underftood it had fluck 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 feveral pains, I confidered the cafe at leifure. As the pelvis 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, after having dilated the os externum fo as to admit my hand, I found all my efforts ineffectual, either to raife the forehead to the left fide of the pelvis, that the vertex might come down to the other fide, or to retuin the head into the uterus, fo as to deliver it by the feet; for the uterus was fo ftrongly contracted as to foil all my attempts. Thus baffled in thefe endeavours, I introduced one 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 turned 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 shape; but it had been so long compressed, 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 fluck 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 greatly fatigued, and the force of the pains very much abated, I refolved to affift as foon 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 flipping into the mouth, I felt it move its tongue and lower jaw; though I did not mention this circumflance to the mother, that fhe might not be overwhelmed with anxiety, in cafe it fhould 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;

pelvis ; but I could neither reach 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 eordis: but finding a confiderable refiftance, and being afraid that the blade would pafs on the outfide of the os uteri, I withdrew the inftrument. However, after two or three trials, in which I kept the point elofer to the head of the child, I effected my purpofe, and introduced the other blade on the opposite fide in the fame flow and eautious manner. Then locking and tying the handles together with a fillet, I began to pull during every pain, and as I pulled with my right-hand I prefied down the chin with two fingers of my left. The perinxum and parts below were now pushed 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 back parts, and bring them flowly with an half-round turn upward through the os externum; and, at the fame time, I kept my left-hand firmly preffed against the perinæum, in order to prevent its laceration. I afterwards delivered the body of the child, whofe face was livid and very much fwelled, though the eechynlofis went off as the tumifaction fubfided. The form of the head, which was fqueezed to a great length, I altered a little, by prefling the vertex and forehead between my hands.

CASE III.

A BOUT nine o'clock in the morning, I was called by a gentleman who had formerly attended my lectures, to a woman in labour, and found the child's face prefenting. He told me a midwife was employed to deliver the patient, but his attendance had been befpoken in eafe any extraordinary incident fhould intervene; that the cafe having turned out a preternatural pofition of the head, his affiftance was follicited, and he had that morning made feveral unfuccefsful attempts to raife it into the uterus, and bring the child by the feet.

As I could not accompany him immediately to the place, the midwife, in the mean time, called in another practitioner, who, when I arrived, proposed that the woman should be delivered with the whalebone and fillet. Upon examination, I found the face prefenting, about two-thirds of the head down in the pelvis, which I concluded to be large, because her former labours had been quick 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 request that I would lay the woman, I caufed her breech to be moved to the fore part of the bed, as the lay on her right fide, and a pillow to be placed between her knees, which were held up toward the abdomen. These previous steps being taken, I introduced the fingers of my righthand up to the vagina, between 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 passed the os internum, I withdrew my left-hand, to allow room for turning the handle backward to the perinzum, that I might the more eafily push the point forward, and follow the convexity of the facrum. 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 more 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 direction, 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 affiftance of two fingers prefied 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: laftly, I moved the handles toward the pubes, and delivered the woman of a child, whole face was fwelled, and whole head was comprefied like that deferibed in the former cafe: the long comprefiion had rendered the arms paralytic for feveral days, though this misfortune was foon remedied by frictions and embrocations.

CASES IV. and V.

WAS called by a midwife to a woman in labour, and found the child's face prefenting, and fo exceffively firelied, they be for the firelied of the second sec face prefenting, and fo exceffively fwelled, that I at first mistook it for the breech; but, on farther examination, I felt the mouth and chin toward the facrum, and the fontanel at the pubes. The midwife told me that the waters had long been difcharged ; that notwithstanding a fuceession of ftrong labour pains, the head had made no progrefs for feveral hours; and that as the pains had greatly abated, she defired 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 strength and spirits being exhausted, I eneouraged her with hope, and refreshed her with a glafs of warm winc; then directing them to place her in the position deferibed in the fecond cafe of this collection, I gradually dilated the os ex-ternum. This dilatation being effected, I introduced the fingers of my right-hand between 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 possibly 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 fpace 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, first to one fide, and then to the other; failing likewife in this attempt, I pushed 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 chin fluck fo fast, that I was afraid of straining the lower jaw, and obliged to push up the head a second time with the forceps. I now introduced two fingers above the chin, and pulling the foreeps with my left-hand, brought it down to the lower part of the ischium, and turned it, with the fore part of the neek, to the fpace below the pubes; then ftanding 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.

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Some time after the foregoing cafe, I was called to a woman who had been 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 weakened. The weather being extremely cold, I allowed her to continue lying on her fide, though a fupine pofition would have been more convenient; and caufing her breech to be moved a little over the bcd-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 raife the head, I was 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 face 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 comprefion of its head in the pelvis.

END OF THE SECOND PARTS



[330]

SMELLIE'S MIDWIFERY. PART THE THIRD.

COLLECTION XXXI.

Laborious cafes, in which the head of the child prefented, and the child was delivered with the affiftance of the hand, blunt-hook, or crotchet.

[Vide Part i. Book iii. Chap. iii. Sect. v. 'Tab. xii. xvi. xxviii. xxxix.]

CASES I. and II.

A dropfical head opened with the sciffars, delivered by the labour-pains with the affiftance of the hand; the other with the blunt-book.

MIDWIFE fent for me to a poor woman, and allowed me to bring one of my pupils as an affiftant. The patient had been all night in strong labour; and, after the membranes were broken, the midwife alfo told me, that the fufpected the head prefented wrong, having found the fontanel turned to the pubes. At first when I examined, I was of her opinion, and imagined this position retarded the delivery; but introducing my finger backward toward the facrum, 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 diffended, that it would not pafs, unlefs the hairy fealp was forced out with the contained waters, or perforated, to allow their difcharge. Having 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 alfo 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 two fingers of my left hand into the vagina. Thefe I preffed against the open space betwixt the bones of the cranium; then, with my other hand, introduced the points of the feiffars along my left, and hetwixt the two fingers, to prevent their hurting the woman. pain abating, I waited till another returned ; and when it was at the ftrongeft, I perforated the scalp, by pushing the point of the feisfars through the integuments.

integuments. The waters immediately gushed out, about three pints, in a full stream. The head being thus emptied, was forced down into the vagina ; and this being her first child, it was in a few pains more delivered. During thefe, however, a pint more of water was fqueezed out. As the pains were weak, I affilted, by pulling at the opening with my fingers. The child had been dead feveral days.

The fame midwife called me to another woman, having, by her experience of the former cafe, found it was also a dropfical head, the bones of the cranium being separated at a great distance from one another. The woman had not found the child flir 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 head did not advance. In time of a pain, I found the hairy scalp very tense, and the os uteri fully open ; when the pain abated, the bones of the cranium felt loofe, and eafily moved within the fcalp; 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 the lay on her fide, I perforated the fealp, as in the former cafe. Although there was a large quantity of water discharged, and the bones felt in a shattered condition, riding over one another, yet, even after many strong pains, they were only advanced to the middle of the pelvis. I then tried to affift, by pulling at the opening with my fingers ; but that purchase not being sufficient, I introduced the blunt-hook within the skull, and with the affiftance of my fingers, gradually extracted the head; and the body being fmall, was easily delivered. The child appeared to have been dead feveral days, from the parts being livid and the fcarf-skin separating on the least 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 difease to be found on the body of the child.

CASE III.

Alaborious birth, from the large fize of the child and the smallness of the. petvis ; delivered with the blunt-book.

WAS called to a woman, who had been feveral days in labour. She A had been delivered twice before with great difficulty, although the children were fmall, and before the full time. The midwife told me, that the waters were gone off two days; and although the pains had been very ftrong, it was a long time before the head came down into the lower part of the pelvis. She had been in hopes that it would have been delivered every ftrong pain, during all the foregoing night; but as the pains went off, and the woman was grown weaker, she advised the friends to fend for farther allistance. On examining, 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 also 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 her extreme weaknefs; but told them, as a fpeedy delivery was the only method to fave her life, I should do all As in my power.

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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 to low down and firmly locked in, that I could not move it. 'This method failing, I opened the head with my feiffars, 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 difeharged at the opening, as the head advanced; after which the child was foon delivered.

On examining the body, I was certain it had been dead many hours before delivery; for the lips and fcrotum were of a livid colour. The first 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 begun in the uterus, efpecially as fhe had complained of violent pains in the abdomen the night before; but they had been gone off for fome hours, and therefore the affiftants did not inform me of this circumflance till after delivery.

I was informed next day, that the patient gradually grew weaker, turned delirious, and died next morning. I am now pretty certain, from many examples fince, that if I had been called the day before, the woman would have been 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 difforted.

CASES IV. and V. (Laborious.)

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I WAS called to a woman who had been long in labour, and had not felt the child flir for twelve days; fince which time fhe had been thrown into great fear by a fall from a horfe, and on that account the midwife fuppoled the child was dead. When I examined the cafe, I found the head of the child advanced to the lower part of the pelvis; the difcharge on the clothes was of a brownifh colour, and had a flrong mortified fmell: the patient was much exhausted with the length of her labour, and her pains were weak.

Having placed her in a fupine pofture (as defcribed in collect. xxv. No. i. cafe 1.) 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 obstruction of the delivery did not proceed from a narrow pelvis, or a very large head. With a good deal of difficulty, I introduced a fillet, 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 polition ; this obliged me to increase 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 withdrew the blunt-hook, and introduced a ftraight crotchet, by which the head was extracted, after using much force. On trying to deliver the body, I was furprifed that I could not bring it along ; and fufpecting the difficulty was owing to the bulk or monstrous deformity of the child, I introduced the ftraight crotchet along the breast; but it lost 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.

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Upon examination, I found the difficulty proceeded from the belly being greatly tumified after death; and that the crotehet, at the first trial, had ouly tore open the breast; but, by opening the abdomen in the second effort, the fwelling fublided.

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 first to tear open the thorax, and afterwards the abdomen. In this operation I found that the curved crotchet succeeded better than the straight kind.

Laborious ones; the uterus contracted before the shoulders of the fætus.

MIDWIFE fent for me to an aequaintance of her's, at one of the MIDWIFE tent for the to an acquattion labour, and was neglected work-houses, who had been five days in labour, and was neglected the house. The midwife told me, the had by the furgeon and midwife of the houfe. The midwife told me, fhe had been with her all night; that fhe had loft a great deal of blood; and that the thought the child was dead, as the woman had not felt it flir for two days. On examining, I felt the head low down in the pelvis; but as fhe was to very weak, I defired the furgeon might be font for, who was not to be found. As there was still more danger in delaying longer, I thought it a pity to :efuse giving all the affistance possible. I first tried to deliver with the forceps; but was furprifed that I did not fueceed, when I found the, head was not large, the innrument fo eafily introduced, and firmly fixed : I therefore opened the head; and, in trying to deliver it with the affiftance of my fingers and the blunt-hook on the infide of the fkull, I could not, with all my frength, bring it along. However, by extracting the occipital and one of the parietal bones, I had room to introduce my hand, fo as to find with my fingers the under part of the uterus ftrongly girt, or contracted round the neek of the foctus: this I gradually dilated; then bringing down one of the arms, and pulling at that and the shattered bones and fealp with both my hands, I at last extracted the child with greater eafe than I expected.

In puffing up my hand to dilate, my fingers paffed the mouth of the womb that was girt round the middle of the head, when I was furprifed to find another contraction before the fhoulders. This was the first time I obferved that different parts of the uterus would contract fo ftrongly, especially the under part before the fhoulders, a constriction which has been commonly aferibed to the mouth of the womb. The woman recovered, contrary to expectation, but was long in a weak condition.

I was called to a cafe much of the fame kind, only the head of the child was larger, and fqueezed into a longifh form; the woman was alfo ftronger, and had not been exhaulted with floodings; but as fhe had been long 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 first tried to deliver the head with the French foreeps, recommended by Mr. Butter, in the Medical Effays of Edinburgh; but they were fo long and ill formed, that I could not introduce them fafely to take a proper hold; therefore, attempted to deliver with the fillet or lack; which, though fixed firmly, had no power to bring along the head, though 1 ufed confiderable force in pulling by that hold. This method not fuceeeding, I waited forme iime, as the pulling the head with the lack had brought on fome pains; iime, as the pulling the head with the lack had brought on found the but the woman growing weaker, and affuring me fhe had not found the child cliild fir for feven or eight days, I thought it more than probable that it was dead, and the body fo tumified as to prevent the delivery. The woman and her friends being impatient, I thought it was wrong to run too great a rifk of her life, and delivered the child, by opening the head, and extracting the body with the affiliance of the crotchet. I could not deliver the head, even after the cerebrum and feveral bones of the eranium were difcharged, until I had alfo opened the abdomen.

The body of the foctus 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.

CASE VIII,

A laborious one; the head of the child high in a narrow pelvis; delivered with the hand and blunt-book, or crotchet.

TRS. MUIRHEAD, midwife in Hamilton, fent for me to a woman MRS. MUTRHEAD, influence in for twelve hours after the os uteri who had been in fevere labour for twelve hours after the os uteri had been fufficiently dilated, and the membranes broken. On examining, I found the head still above the brim of the pelvis, and kept up there by the projection of the lowest vertebra of the loins, and upper part of the facrum. This straitened the passage, which felt not above two inches and a half from these bones to those of the pubes. I advised them to keep her quiet in bed, to prevent her being fatigued, and give time for the head to advance in a flow progression, as well as to keep up her strength by refreshing fleeps betwixt the pains. These directions had the defired effect: but having waited from morning to night, and finding the head was only fqueezed down a little, in a conical form, into the narrow part of the pelvis, I fent for another gentleman of the profettion. After we had waited all night to no purpose, observing that the patient grew weaker, and that the head did not advance, we thought it adviseable to attempt the delivery, rather than to wait longer, and run too great a rifk of her life : we alfo confidered, that the pelvis was fo narrow, it would be impoffible to fave the child's life; and if it was uncommonly large, it would be even dangerous to the life of the mother. Having placed her in a convenient po-fition, and in a cautious manner opened the protruded fealp (which was much tumified) together with one of the parietal bones, with the feiffars, I introduced two fingers of my left-hand, and tried to pull down the head in time of the pains; but finding that purchase was not fufficient to move it, I introduced the blunt-hook first 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, along the fame the hook, with my right hand, to the apper part of the head. After refing a little until a pain returned, and introducing again the fingers of my left-hand into the opening, I began 'to pull; but finding this hold of the influment forced the head too much against 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 defiring the woman to force down with all her firength. To prevent, as much as poffible, any injury to the parts of the woman, I repeated these efforts by intervals, which at laft brought along the head, 'fqueezed in a long and flat form. This being effected, the body was delivered in a flow manner, but not without a good deal of force.

On examining the child's head, I found the first hold of the hook was above the car, and the fecond on the opposite fide, above the under jaw; the

the opening with the feiflars was made through the left parietal bone. My fingers and thum had to firm a hold, as to affift in pulling the head backward from the pubes, while the force above, with the hork, made the bones collapse, as the cerebrum was discharged through the 1 cforated part ; but although the head was finall, it required a great deal of force to bring it through the narrow part of the pelvis.

. The woman recovered tolerably well, but did not live to have another child.-Vide collect. xxxiv. No. ii. cafe x.

TTAL PERSTANCE C ASE IX.

A laborious one; the child delivered with the curved crotchet, covered with its sheath 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 puthed, in a longifh form, into a very narrow and difforted 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 ordered a mixture to amufe 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 refreshed with rest and sleeps betwixt the pains. I still encouraged her to have more patience, and continue to take every now and then fome of the mixture.

I was fent for again next morning about two o'clock, and found her ftrength much exhausted ; her pains, which had been frequent and strong, 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 pressure, into a large tumour on the vertex, which prevented my knowing the exact polition; but as it was still high in the pelvis, I judged 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 the imagined the felt the motion of the child, I waited many pains, and tried if putting her in different politions would forward the delivery ; but finding her spirits flag more and more, and the flooding increase, I begin to be afraid of lofing the patient if I longer delayed my affiftance. Having laid her in a proper polition, 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 position; but could neither reach the ear nor back part of the neck with my angers, without using more force, which I durft not venture to exert on account of the However, this trial made me fenfible of the head being fo large, flooding. that there was no hope of faving the child by turning and bringing it footling; and it was impossible to deliver it with the forceps. To prevent farther danger, I opened the head of the feetus with the feifiars; and, in time of the weak pains, tried first to deliver with my ningers and the curved crotchet, covered with its meath within the opening ; but although, in making different efforts, I pulled out the frontal, occipital, and right parietal bones; I did not fucceed until the crotchet was flipped up on the outlide of the fhattered remains, above the under-jaw. As my fingers were cramped, I retted 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 last brought out the 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 fame crotchet along the breat and belly; and by opening thefe, as in the 4th cafe of this collection, 1 at last effected the delivery; and indeed not without much fatigue.

By the livid appearance of the child's body, the woman and friends were convinced that it had been dead for fome time, and that the difficulty proceeded from the uncommon bignefs, as well as the tumifaction of the aldomen.

This was the woman's first child; I attended her in a second and third; her labours were tedious and the children large, but at last fafely delivered.

CASEX.

The pelvis narrow, and the child large; delivered with two crotchets.

I WAS called by a midwife to a woman in her house; the child prefented much in the fame manner as the foregoing; fhe had pretty ftrong pains, and was every now and then attacked with fevere fits of vomiting; but as the was in no apparent danger, I ordered a few draughts with the fpir. Mindereri. Being again called, and finding that the patient was growing weaker, and the being much fatigued with the vomiting that still continued, as well as the length of the labour, I at first tried to turn the child; but, in pufhing up the head, I found it large, and the pelvis fo narrow that the child could not be faved by that method. I alfo found that the forceps or fillet could be of no fervice ;, however, I refted fome time to obferve, if, after firetching the parts, they would allow more room for the head to advance lower; but finding no alteration, and the being attacked with faintings, I immediately opened the head and tried to deliver with the blunthook, as in the former cafes, but not fucceeding, and as the forehead was at the left fide of the relvis, I introduced one of the curved crotchets along the left fide of the facrum, above the under-jaw; finding that purchase, pulled the head against the pubes, 1 introduced the other at the opposite fide of the facrum, and moved it gradually over the occiput of the foctus to the right groin of the woman.

Finding that both the inftruments had a firm hold, and locking them together in the fame manner as the forceps, I began and pulled with greater and greater force, which brought down the head lower in the pelvis; but as it flopped there, I unlocked the crotchets, and pulled by the one that was at the right fide, by which it was forced backward toward the facrum, and delivered. Although I used all possible caution, yet it required fo great force at the laft pull (this being the first child) that the perinceum was a little rent; but by the prudence of the nurse it recovered without the woman's knowledge.

CASES XI. and XII.

The face of the child prefented; the head low in the pelvis, and delivered with the crotchets.

RECEIVED a meffage 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 fome recompence for my trouble. He had been with her all night; her pains at first

PART III.]

PART III.]

first were strong, which growing weaker, he tried feveral times to turn the child and deliver by the feet, but not fucceeding, and being much fatigued, he had recourfe to my assistance. I also tried the fame method to bring the child footling, turning the woman upon her knees and elbows, according to Davenier's advice, that the preffure or force of the muscles of the abdomen might be diminished : but after several 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 efforts, could 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 feiffars at the os frontis, which prefented at the pubes; but the bones were fo thick, that I could not make an opening fufficient to allow a difcharge of the cerebrum.

All these different methods failing, I introduced the two curved crotchets, one on each fide, which tore open the bones of the cranium; then the contents were evacuated, the head was diminished, the foctus delivered, and the woman recovered.

A midwive fent from one of the courts at the Seven Dials for me, or one of my oldest pup.ls, to affist 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 exhausted with the length of the labour, endeavoured to turn the child ; but not fucceeding, 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 affistance was required. When I arrived at the house, the midwife told me that the woman had formerly eafy labours, and that fhe at first imagined the breech of the child prefented, and had waited a long time till her patient's ftrength began to fail'; but at last she found her mittake, and that in place of the breech the head prefented, and had ftopped in that position for many hours; on which account the had defired farther affiltance, to fave the woman's life. I 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 felt it fo firmly locked, that it was impossible 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 right fide of the pelvis of the woman, and right ear of the child. After trying 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 lose her life if not foon relieved, I introduced the two curved crotchets, an 1 delivered her in the fame manner as in the former cafe. The head was fmaller, and not firetched to fo great a length ; it came eafily 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 greatest part of the contents to evacuate, fo that the head was diminished, and came along with less difficulty.

The woman complained afterwards of great pain, both at the facrum and pubes, which feemed to proceed from over-fliaining the ligaments of thefe bones ; but by keeping her quict, and promoting plentiful fweats, the at CASE last recovered.

PART III.]

CASE XIII.

A laborious one; the pelvis narrow, the head large; delivered with the crotchet.

A MIDWIFE 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. Although the woman had been three days in ftrong labour, yet fhe feemed to be in no danger; and as fhe had got little fleep, I ordered her a draught with tinct. thebaic. gt. xx. and fyr. e meconio zij. and defired fhe might be kept as ftill as pofible.

Being called again next morning, I found the head advanced a little lower in the bason; but as her pains were still good, and as she had got little fleep with the former draught, I ordered the fame to be repeated ; and leaving one of my pupils with her, defired him and the midwife to fend for me if they found it necessary. They fent for me about eleven at night, giving me notice that the patient had flept every now and then betwixt the pains, which were flrong ; but as they were now abated, the woman much exhausted, and no hopes of the delivery, they thought my affistance was neceffary. Near half of the head was now fqueezed down in a flat form at the difforted 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 focus with the forceps; for it would have been impoffible to have brought it alive by turning in fo narrow a pelvis. Finding at last the woman and pains grew weaker, and that the head still continued in the fame position, the patient also begging to be relieved, and calling upon me, if poffible, to fave the infant, I thought it would be cruel to delay my affishance longer; and refolved to do all in my power to fave the mother and the child alfo.

As the lay on her left fide acrofs the bed, I gradually firetched open the os externum, and introducing the fingers of my left-hand along 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 publis; 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 poffibly could be faved by delivering with the forceps, and first introduced the flort kind; but the diffortion of the pelvis prevented their taking a proper hold; and when I attempted to extract, they flipped off the head; then f introduced a longer pair that were bent to the fide. Wide collect. xxxiv. cafe x. and fupplement to cafe v.

As one of the ears was to the pubes, and the other above the projection of the difforted bones at the back part of the pelvis, 'I was obliged to fix one blade over the os frontis, and the other over the os occipitis, by which means I obtained a firm hold, as the bending of the forceps fitted the curvature of the facrum; but as the biggeft part of the head was fill above the brim of the pelvis, it was not in my power to move it down from that polition. Finding it was in vain to try this method longer, and being afraid left the parts of the woman fhould be fo bruifed as to occafion a mortification,

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tification, I withdrew the forceps, and refolved to use the last refource and most difagreeable method, to fave her life.

As none of the futures prefented fo as to enable me to make an opening , through one of them, I was obliged to make a perforation with the feiflars through one of the parietal bones, into which having introduced two of my fingers and a crotchet, I endeavoured to deliver; but not having a fufficient hold, I withdrew the instrument. Recoilecting, that as the forehead was to the left fide, a perforation would be much easier made at the fontanel and fagittal future, 1 introduced my fingers and curved crotchet, with the fame precaution as before. The last vertebra of the loins jutted in fo much, that I was obliged to move the inftrument more toward the pubes; the point turning a little to one fide, I moved it again close to the head, to prevent its hurting the patient. When I began to pull, the influment began to flip, and the point again to alter, on which I advanced it much higher than before, and placed it right; then I began to extract first in a gentle manner, until I found there was a firm hold ; afterwards, with much 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 laft fixture of it that fucceeded was on the lower jaw. Not being able to deliver the body with my hands, I was obliged to take the affiftance of the crotchet to diminish the bulk of the body alfo. The woman recovered well, confidering the length of the labour, and the force used before the could be delivered.

C A S E XIV.

A delivery with the crotchet; defcribed in a letter from Mr. R. P. dated W.

S 1 R, CCORDING to your defire, I fend an account of a late occurrence A CCORDING to your defire, I find an account of a fate occurrence in the branch for which I am indebted to you for infructions. I hope you will favour me with an anfwer, and your opinion of the following cafe :---- About a fortnight ago, a poor woman, come to her full time of a fecond child, by accident received a fall, which occasioned much uneafinefs; but no fymptoms of labour appeared till yesterday about eight o'clock in the morning, when the membranes broke, and the waters difcharged in great quantity. At three in the afternoon the pains came on pretty fast; the midwife was fent for; and, as the flys, finding things above her reach, fent in an hour after for an old proclitioner, who lived in the neighbourhood, and who, upon the fcore of a little prospect of gain, fent away the meffenger. He came to me about fix or feven; I went wit h him; I found, on examining, a large arm in the paffage, and the head which I thought also very big, prefenting with the forehead fidewife, but, turned a little toward the os pubis. The pains had entirely ceafed; I put her in a right polition, to try to turn the child : with fome difficulty I introduced my hand, to fearch for the fect, but found none near My hand was very strongly pressed with a prodigious stricture and compression of the parts; however, 1 got to the groin, and found the legs and feet extended up in a flraight line, fo as I could not poffibly reach them. I then returned to the head, and endeavoured to push it upward, but the preffure was io great against me, that I found it impracticable. I told them the difficulty, which the midwife likewife affirmed; and being at a little paufe, the proposed calling a neighbouring furgeon, who had some little knowledge that way. U u

way. As I was a flianger, and newly begun to practife, J was glad to have one to confult with in this dangerous cafe. When he came, I told him every thing that had happened; and, after examining, concluded, that it was impossible to deliver by turning. We then agreed, as it was uncertain whether the child was dead or not, to try one blade of the foreeps, which I paffed up under the os pubis with fome violence ; but receiving no advantage from slis, 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 when he preffed the head from the os pubis, I extracted. My hold broke once or twice; till at laft, I fuppofe, using in the maxilla inferior, we funcceded in the attempt. Some little flooding had appeared all the while; I forgot to mention, that when we came to the desperate work, and found the arm obstructed us much, I twisted the fame off from the shoulder. No figns of life appeared in the child; but it was very large. The woman was afterwards as well of better thin could be expected. The uterus, in the attempt to turn, felt as if it had loft its oval or round figure, and feemed as if it inclosed the foctus like a sheath. I was about an hour and a half with her; the waters had been gone twelve or fourteen hours. This, Sir, is a genuine account of a method I as very unwilling to use, especially with a the membranes broke?

The Anfreer was much to the following purport.

SIR, NO doubt, if you had been ealled in fooner, there would have been a greater probability that you could have turned the child, efpecially if all the waters did not come off at once; but if all the waters came off before the arm and head were locked clofe in the upper part of the pelvis to keep them up, the difficulty would have been as great at first as after. What you observe about the uterns is right; for when the child's head prefents, and the breech and legs are extended up to the fundus, the uterus embraces the child like a long fheath, 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 figure, and the child ean be eafier turned. I think you afted very right in first making a trial to turn, and when you could not fucceed, to try if one blade of the forceps would affift, especially when the arm was down; though I feldom find that one blade does much 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 neceffary 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 also probable that both blades of the foreeps could not be applied before that limb was taken off.

CASE XV.

ALCOLUMN DE MORE PORTAN DE MORE

MR. J. was fent for to a woman who had been feveral hours in labour; and although the had flrong pains, the head fill flopped at the upper part of the pelvis, and did not advance. After putting his patient in a proper polition, he introduced both blades of the forceps; and having flipped them up on each fide of the child's head, and locked the handles together, he

he began to pull along with a confiderable force. As the forehead lay to one fide of the pelvis, he tried to turn it back to the factum; but it could not be moved, being fo firmly fixed in the upper part of the pelvis. This method not fucceeding, he brought out the forceps, and reiolved to turn the foctus, and deliver by extracting it by the feet. This being the woman's first child, he found the os externum () rigid that it required many efforts, during every pain, hefore it could be arland; this being eff ated, he endeavoured to force with his hand the head of the child back into the aterus, fo as to allow fufficient room to come at the feet. After repeated trials, he could not with all his ftrength raife the head fo as to pass his h nd on one fide of it; however, during these efforts, he found the last vertebra of the loins project more forward than common.

In confequence of this observation, he defifted ; fearing, that if it should turn the child, it would be impossible to fave it, on account of the great force it would require to bring the head through the narrow pelvis, ex-clusive of the risk the mother might run of a laceration of the uterus before the feet could be brought down. Having fatigues both the woman and himfelf, he took fome respite; then opening the head, introduced the crotchet at the back part of the pelvis, and fixing it above the chin, as he perceived after the delivery, he tried to bring down the head; but by this purchase it was prevented, and forced against the upper part of the bones of the pubes. Having withdrawn the inftrument, he introduced it along the fide of the pelvis, and moving it gently to the pubes, fixed the point on the fide of the occiput ; there finding a firm hold, he infine and two fingers of his other hand into the opening ; then pulling and exerting great force with both hands, he at last delivered the head, and the body follo ved with little difficulty. The patient was ftrong, and behaved with gre t courage all the time, though the complained of great pain in the parts : the was not lacerated in the leafl, and recovered much fooner and better than he expected. He observel, that the opening was through one of the bregmata; that his fingers, when introduced, were violently fqueezed as the head came down, and defired my opinion of his management of this, as well as the other two cafes he had fent me, which were more fuccefsful.

Auforer to the above leiter.

SIR, YOUR fucceeding fo well with the forceps in the two cafes, where the heads of both child: en were come down to the lower part of the pelvis, I am afraid ran you into an error in trying them too foon in the laft. You write me, that the head was high in the pelvis; that it was the woman's first child; that the had only been rever I hours inftead of days in labour ; was ftrong. and had vigorous pains; and that although you supposed the pelvis was narrow, yet the head was brought along with the affiftance of the crotchet; that the opening was fmall, and the body cafily delivered. All there cucumitances plainly flow, that you ought to have waited with patience to observe what there good pains would have done; for if the pelvis is not or . it takes a long time before the head can be moulded to its form, and is erred through it, more effectially in a unit child, where the os uteri, variou, and external parts, are more rigid, and commonly take up more time to dilate. I am certain, when you attended me, in all the courfes, I infitted much on the pree aution acculfary as to the management of natural and redious latours; knowing from experience, that young practitioners are apter to error mefe than in the preternatural; and I always begged them to attend ever, abou-,

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as it was too common for the gentlemen to neglect coming, except in the preternatural, or where it was abfolutely neceffary to use initruments. Befides, the attending anold practitioner, where labours are lingering and doubtful, teaches us low long to allow them to go on without endangering the patient, and when it is abfolutely neceffary to give more effectual affiftance. I affure you I have been oftener puzzled in thefe, than in any other: for, as in other parts of furgery, it requires more skill to prevent, than to perform an operation.

CASES XVI. and XVII.

Two cafes delivered with the crotchet; from Mr. J. at D.

HAD the honour of attending your lectures. When I left London, you was fo kind as to defire me to let you know if any metion. 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 when 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 could to get at the fect, but it was not in my power. After opening the chett and abdomen, I was obliged to bring away the child double, which was pretty eatily done, as the child had been fome time dead. The woman recovered very well.

The other cafe was where the head was far advanced into the hollow of the pelvis, but fluck at the fhoulders above these hones. I did endeavour to deliver her with the forceps, having introduced them twice. They would not hold, which I thought was owing to the loofeness of the bones of the skull. The child had been some time dead, and the woman long in labour, and in a low way. I delivered her with the crotchet. I told her friends I did not think the could live till the was delivered, but the lived for half an hour after. The Bart States and the states

The head prematurely opened by a practitioner; mentioned in a letter from Mcff. B. and L. of B.

SIR, S we derive all our little knowledge in midwifery from you, we hope Lyou will think we have a right to confult you in any thing relative to it; therefore have fent for your infpection, and our fatisfaction or improvement, a cafe which happened at Sudbury, attended with the following circumfances : The woman was rather of a robult ftrong conflitution, large, ftraight, and feeningly well proportioned. She was in labour about fix or feven hours, pains very fevere, but not very frequent, nor any figns of flooding; at which time fhe fends for one who pretends to practile midwifery (more from impatience and inclination, than any fort of necessity) who fancied, as foon as he came, that fomething must be immediately done, and therefore proceeded to flow his inimitable dexterity, by making the wound you now fee, with a common pair of feiffars, as foon as he could poffibly reach the unhappy habe. 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 art. We apprehend the child's face was to the mother's right illum, and not very low down; confequently, as Mr. Oald observes, we cannot fee any material use this opening could be

of,

of, as no crotchet was employed, the contents not evacuated, nor the opening large enough for the futures to collapse much, he at last bringing it along with one of his fingers. We both hope, for our own fatisfaction and improvement, to have your opinion whether we have made a right judgment. We are, with great refpect, fir, your's, &c.

M.B. and T.L. P. S. Your opinion returned with the foctus as foon as poffible, will give great fatisfaction.

The anfwer.

GENTLEMEN,

I Received your's with a box. After examining the child, and confidering your letter, I cannot help thinking that the gentleman was too hafty in the operation. The woman had been fafely delivered before, at this time was ftrong, had ftrong pains, only fix hours in labour, the head when opened coming along only with the affiftance of his fingers in the opening. Thefe ftrong pains, without the cerebrum being discharged, or the head fqueezed into a longish form, show plainly that they might have been sufficient for the delivery. The defign of opening is to let out the contents, that the head may be diminished in its bulk when too large to pass; and if this had been the cafe, fuch an operation should not be attempted, unless the woman's pains and strength began to fail. I had a case, the woman very big with her first child; the labour began at four in the morning; the had frong pains, and was fafely delivered of a large child about eight at night. The head fluck in the pelvis, was fqueezed to a great length, but by the affiltance of the forceps was faved. However, no practitioner can judge of thefe matters, unlefs he had been prefent, becaufe he can feldom rely on any accounts, and we ought always to judge on the charitable fide, efpecially as none of us are perfect; and if this gentleman has acted imprudently, it should be a leffon for you and me to act in a contrary 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 spoil. Excuse this hurrying answer from, gentlemen, your's, &c.

The foctus these gentlemen sent me, was as large as any I had see, the opening at or near the vertex, and the head of a round globular figure; f.om which circumstances it appears that it had not been squeezed down into the pelvis, but lying above the brim ; that the gentleman, either from great ignorance of his profession, or hurry of other business, which last is a most shocking reason, did certainly act the part of a bad accoucheur.

CASE XIX.

R. W. was called to a woman in labour of her tenth child; the membranes had been broken, and all the waters difcharged many hours. The head of the child was advanced to the lower part of the pelvis, the forehead to the pubes, and the funis umbilicalis without the external parts, in which the circulation had been obstructed by the pressure 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 opened it, until feveral bones of the cranium were toren out with the crotchet.

Having

W. S.

The

Having delivered the head, he was obliged to fix the blunt-hook in the arm-pit, to bring down the shoulders, and even after that, it required great force to deliver the abdomen, which was much swelled.

CASE XX.

NR. I. was called to a woman who had formerly been delivered of four children, none of whom could be faved; the at this time had been long in labour.

On examining, he found the pelvis very narrow, the forehead, in place of the vertex, preferred; the arm was also protruded through the labia. He waited a confiderable time to try what the labour-pains would do with the usual affistance of the hand, that the child, if still alive, 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.

Communicated in a letter from Mr. H. dated C.

THE woman's pelvis being finall, fhe had been delivered in a former labour with great difficulty; on which account, when he was called to attend at this time, he waited many hours, in hopes that the pains would force the head lower down into the pelvis. At last, the patient, all on a fudden, was taken with frequent faintings; her ftrength failing, and the pains growing weaker, he was afraid of delaying his aflutance too long. As the head was too high to attempt affifting with the forceps, the pelvis too final, and the woman too weak to venture turning, he perforated, and made a large opening in the cranium, from which iffued a large quantity of bloody ferum; after this difcharge, he, with the affiftance of the weak pains, and his fingers in the opening, delivered the woman, and no bad confequence enfued.

He was called to a woman in labour of a first child. The midwife informed him, that the membranes had been broken, and the patient in a lingering way for five days, but that she had now grown weak, and the pains, that had been strong, were entirely gone off. As the head prefented, he first tried to turn, and deliver in that manner, then he used the forceps.

Both thefe attempts failing, he opened the head, introduced a crotchet with great caution, and brought out fome of the bones of the cranium; at . laft he was obliged to introduce a curved crotchet on each fide, 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 hvid colour, and the fearf-fkin ftripped off in the handling.

C A S E XXIII.

In a letter from Mr. H. dated B. Effex.

HE' informs me, that fince the attending my courfes of midwifery in London, he had been called to many cafes in that branch of bufinefs, and was fuccefsful in all of them except the following, an account of which he now fent me. The face of the child prefented at the lower part of the pelvis, the forehead to the right ifchium, and the membranes had been broken feveral hours before his arrival. He first endeavoured to push up the head fo as to bring the child footling, but it was fo wedged in the bones, that he could not move it. He next tried to deliver with the forceps, which also difappointed his expectations; at latt he was driven to the dernier refource, that of diminishing the head.

As he could not perforate the bones of the face and forehead, to make an opening through these parts, he introduced a crotchet above the temporal bone, and at length, after fix hours fatigue in trying these different ways, he delivered the patient. He observes, that in time of operating, he several times called to mind an expression which he once heard me use, viz. "That itudents should never think themselves perfect, for after all the initructions that could possibly be conveyed, there were many things in midwifery which could only be learned by practice and obfervation ; and that cafes would fometimes occur which would puzzle and foil the bett practitioners." As my correspondent mentions nothing of the finength of the 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 efforts of nature, as the methods he ufed to effect delivery, fhould never be attempted hut in the laft extremity. What furprifes me, is the great length of time he was at work, and the fatigue he underwent before he could deliver the patient, unleis he delifted a long time betwikt every trial, and only extracted in a flow manner, and by intervals.

C. A. S. E. XXIV. From Mr. B----, dated B----.

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3 I R,

I W A S called to a woman who had been extremely hearty during her pregnancy, was indulged in eating even to excefs, and was uncommonly big. When fhe was in labour, the midwife had promifed a fpeedy delivery from nine in the morning till ten at night. When called, I found the head prefenting, and imagined in a good fituation to affit with the forceps; but after introducing them, I could not with all my ftrength move or deliver the head, neither could I pulh up my hand into the uterus to deliver the child by the feet.

I next tried to extract the head with a crotchet; this proved unfuccel ful alfo; at last, after four hours working to no purpose, and a flooding comi. g on, I perforated the skull, 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 big, and weighed fixteen pounds.

The anfwer was much to this purpofs.

St R, AFTER examining all the three cafes you fent me, I doubt your fucce's in them has been the occasion of your traiting too much to good fortune n the fourth, where you was obliged to deliver with the crotchet, which I am afraid proceeded from trying both to deliver with the forceps, and to turn the child before it was abfolutely necessary. You do not deferibe the flate of of your patient when you was called. If the was much weakened and exhaufted 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 first methods to fave the child; and after these, if the woman was in absolute danger of her life, you are excuseable for having recourse to the last expedient. When you found the head would not come along with the affistance of the crotchet, you should have opened it immediately, that the contents might be difcharged and the head diministed. This would have faved the time and fatigue you mention. I hope this unfuccessful attempt will be a caution against using 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, such as you deforibe.

CASE XXV.

Communicated in a letter from G. L. dated S.

SIR, I W A S called to a woman of fifty years of age, in labour of her first child, with a pelvis excessively narrow. The patient had been long in labour, was very weak, and the pains had abated. After ftretching the external parts, I could not introduce my hand through the bones of the pelvis; however, in this trial, I felt, with my fingers, that the head prefented. On opening the head, more than a quart of foetid ferum was difcharged. then introduced two fingers, and along them a crotchet, and got a firm hold with the inftrument on the os petrofum. After having 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 opposite part of the cranium; by pulling at both these instruments, some of the bones were loosened, and came away with the crotchets. I then with the feiffars cut in pieces the whole of the cranium, which, with two or three fingers, 1 extracted piece by piece ; afterwards, by the affittance of the blunt-hook, I brought down the thoulder, and feparated it from the body. I was obliged in the fame manner to extract every part of the child.

C A S E XXVI.

WHY A WEST AND

A letter from a practizioner in midwifery, in Lendon.

YOUNG gentleman called me to a poor woman in St. Giles's, at eight o'clock at night, and informed me, 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 exhausted. I went immediately with him to the place. The gentleman, as the hairy fcalp was tumified, imagined that the breech prefented; but, upon examination, I found it was the head with one of the hands, and I perceived the pelvis of the woman was very narrow. She told me, the had been delivered twice before by gentlemen, of dead children. Upon this information, and as the ftill had frength and frequent fmall pains, and complained that the had enjoyed no fleep for two nights before, I ordered her an opiate. This precaution being taken, we left her to the care of the midwife, defiring the patient might

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might be kept as still as possible, in hope she might get some rest. We were again called early next morning, and found her quite worea out with the pains and want of fleep, and the head of the foctus not in the least advaneed. Being afraid, if I delayed the delivery longer, that a mortification might foon invade the parts of the woman, from the continued preffure of the child's head, I opened this last with the feistars, and enlarged the perforation. This being done, I introduced the curved erotehet within the skull, mounted with the sheath, to prevent the sharp point hurting the patient, if it should flip in pulling. Having destroyed the structure of the cerebrum and eerebellum, that they might pass off, fo as to diminith the head, and finding I had a good hold in the infide with that inftrument, I pulled 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 discharged, yet the head was not moved an inch lower. Failing in the above attempt; and finding I could not introduce my fingers, to direct the sharp crotchet on the outlide 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 fome time dead, which plainly appeared from the fkin ftripping off from that member. Afterremoving the arm, I even then with much difficulty introduced my fingers, and along them the erotehet, and got the point fixed above the chin; then pulling with great force, and with both hands, in the fame manner as before, the head began to move down within the projection of the difforted bones; and I continued pulling it till it was entirely delivered. The body followed, without the ufe of the erotchet, but not without uling great forec. The diftance, 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 force used at the delivery, yet the recovered better than could have been expected, and is now quite well .- He alfo writes in the fame letter, that he was called lately to a patient about forty years of age, in labour of her first child. The hymen shut up the passage into the vagina, and was ruptured by the head of the child, fo that the patient had an eafy delivery.

CASE XXVII.

A LETTER from a gentleman near London, contains the hiftory of a laborious cafe, in which he honeftly owns he prematurely tried to deliver with the foreeps; but the head of the foctus being too high in a narrow pelvis, that method did not fuceeed; he then administered an opiate, to procure fome reft and allay the violence of her pains, as the had been much fatigued. Being called on other bufiness at some distance, he did not sce her before the following day, when he found her much exhausted 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 head was not advanced, fo as to promife any fuceefs from the forceps, he was obliged to use the difagreeable method of opening the eranium, through a large tumour of the hairy fcalp; after which, with the affiftance of the blunt-crotehet, he extracted the child, but with greater difficulty than he expected, as it was very large. He takes occasion to lament the condition of poor women who live at a distance from assistance, in the country, and the difinal fituation of Хx

of practitioners, who are feldom called in time, and, even when properly called, prevented, by a hurry of other bufinefs, from giving due attendance. This is too frequently the occafion of tempting them to operate, before it is abfolutely neceffary; 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.

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An account of the fides of the os uteri grown together in a woman with child, hy Thomas Simpfon, M. D. professor of medicine in the University of St. Andrew's.

A WOMAN, forty years of age, obfervably narrow between the offar pubis and os facrum, had been four days in fevere labour of her firft child, when I was called to affift her. The child appearing to have been dead for fome time, I opened its head, and extracted it, but with great difficulty; its fhoulders and haunches being too large to pais in the ftraitened paffage between the bones. During some days after her delivery, she paffed a great many finall rugged ftones by the urethra; and at length, after her urine had been ftopped fome time, her hufband drew out of the urethra a large piece of thick membranous fubftance, three inches in length, and in fome parts two inches broad; one fide of it was covered 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 feparated; 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 fuspect that the pus came from the external parts, but only from the exterior, which had been fomewhat lacerated. About three months after delivery fhe 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 affiftance of another phyfician, and Dr. Haddow 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 first obliged to dilate the vagina fufficiently, that we might operate more fecurely. We had no speculum matricis, and therefore it was necessary to fupply it by fome other instruments. We tried to make the dilatation with a pair of long broad-bladed forceps; but they neither had ftrength to dilate fufficiently, nor did they keep the vagina equally 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 thickness than we thought would be fufficient to be a ftrong enough preffure by the neceffary dilatation. When these were finely polithed and greafed, I introduced them into the vagina, with the concave faces to each other; then fliding in the legs of a fp cu'um oris between them, and turning its forew, I feparated the pieces of wood fo far as we could fee diffinely the cicatrix of the parts grown together, and could have eafy accefs to divide them; which I did by an incifion at leaft half

half an inch deep, before I pierced through the fubftance of this part of the womb; then immediately introducing my finger at this wound, I touched the head of the child, and felt the whole circumference of the paffage hard, like a cartilage, which yielded nothing to feveral throws the had after the incifion, fo that I was obliged to guide a narrow-bladed fealpel with my finger, to make feveral incitions into this cartilaginous ring: in doing this, there was not the leaft appearance of blood, and the patient had no trouble, except what the dilatation of the vagina gave her,

The labour continuing, the pallage dilated a little, but not fo much as to give any hopes of its allowing the child's head to pafs, notwithstanding 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 was no liquid with the child, nor did any blood follow it; it was quite fupple, and had a white chalky crust over its whole body; fo that we were convinced it had been dead for fome time. The want of waters was fome furprife, till I recollected, that, in the time of labour, fhe 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 between these passages and the cavity of the womb above the os tincæ, which had allowed the waters to be evacuated. I was the more inclined to entertain this fuppofition, becaufe frequent inflances have been observed of stones 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 course for fome time after.

My patient, immediately after being put to bed, was feized with a pleuritic pain, very high fever, and difficult breathing, which coming on fo foon after her being fatigued feveral days with hard labour, during which fhe flept none, but drank much of every thing in her way, appeared to me rather the caufe of her death in twenty-four hours after, than any confequence of the incifion I had made, for fhe never complained of uneafinefs in those parts, nor had any hæmorrhage. Notwithstanding all the follicitations I could use 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. xl. cafe viii. collect. xxxix. No. i. cafe iii.

COLLECTION XXXII.

The state of the

Of preternatural labours, in which the legs or breech prefented in place of the head.

[Vide Part i. Book iii. Chap. iv. Sect. i. ii.----Tab. xxix. xxx. xxxi. xxxii. xxxiii. xxxiii. xxxiv. and xxxv.]

CASE I.

MIDWIFE fent for me to affift in a labour. The legs of the feetus were forced down through the os uteri into the vagina immediately after the membranes broke, and the had tried to bring down the child's body by pulling. After ftretching the os externum, 1 intro- $X \times z$ duced duced my hand into the vagina, and up along the thighs of the child to within the os internum, where I found the breaft and chin fqueezed down at the left fide, just 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 pushed up the breaft and head to the fundus uteri, with the hand that was introduced at first.

Finding that the breaft eame lower, and that the pufhed-up parts did not return, I withdrew my hand from the uterus, and having wrapped a cloth round 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 concavity 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 upper 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 concave part of the facrum; being afraid of over-thraining the under jaw, 1 quitted that hold, and placed a finger on each fide of the nofe; then I laid the body of the child on that arm, and by flipping the fingers of my other hand 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 women fupported her legs; in delivering, I at laft was obliged to raife up the child's body, fo as to bring out the head with a half-round turn upward, to prevent the perinæum being toren, as thefe parts were forced outward in form of a large tumour; by which precaution both the mother and child were fafely delivered.—*Vide* collect. xxxv. cafe i.

CASES II. and III.

B EING fent for to a woman in labour, the midwife told me, that at her first examining, and even after the membranes were broke, she could not diftinguish 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, she found that the breech prefented; but having waited feveral hours in expectation of the delivery, and at last being afraid of the child's life, she had recours to my affistance.

On examining, I found the nates at the lower part of the pelvis, and in a right polition, 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 polition, as in the preceding cafe:

In time of the pains, I gradually flretched the frænum labiorum with my fingers, then flanding up, turning the back of my hand downward, and introducing my fingers betwixt the breech and the os coecygis, I tried to raifc up the nates, fo as to be able to bring down one or both legs.

Although I failed in this attempt, 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 firetching the parts, and allowing an eafier paffage for the child, which

I found

I found was very large; and indeed this was the fole occasion of the difficulty.

After bringing down my hand, I introduced the fore and middle finger of each into the outlide of each 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 perinæum being toren, I at laft brought the hips through the os externum, at feveral efforts, and by the affiftance 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 used all precaution in delivering the head, and indeed exerted lefs force than in the former cafe, yet the child was dead, a circumftance which feemed to proceed from the long preffure of the funis, by its being tumified and fqueezed of a flattish form near the navel.

I was called to a patient who had been in labour most part of the night, and did not fend till the membranes were broken. The breech prefented; the thighs were to the right fide of the pelvis; the right hip was forced down in the back part, and the left fluck above the offa pubis. As this was her first child. I waited with patience, in hopes that both hips would advance gradually, and flretch 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 affistance any longer, the child would be loft.

Finding that the delivery was principally retarded by the hip flicking above the pubes, I dilated the os externum a little, and after introducing two of my fingers betwixt the pubes and the hip, prefied and moved it in time of a pain to the right fide of the pelvis: this endeavour immediately altered the former polition, by bringing the thighs to each fide of the facrum. The child being fmall, 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 cafe.

The woman lay in bed on her left fide; and as the head was fmall, I delivered 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 hold 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.

CASE IV.

A breech cafe, from Dr. Tathwell, physician, of Stamford.

A WOMAN', aged 32, having gone her time with her first child, fome flight pains came on, and the waters broke, after which the pains went off for a fortnight, then came on again, and the faces of the child were observed by the midwife to come away.

were observed by the influence to come analyte Upon examination, I found one of the hips preient, but the os internum not being open enough, and the pains only flight, I directed fome thebaic drops, with tincture of caftor, and warm fippings, ordering the woman to compose herfelf, and if any change happened, to fend to me again.

compose herfelf, and if any change happened, to tend to the again fo open-In a few hours the pains were fo increased, and the 6s internum fo opened, that when 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 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 perceived in the umbilical cord, though the mother thought fhe had felt the child fir that morning; but probably the fame preffure on the abdomen of the child, which had brought away the meconium, flopped at the fame time the circulation of the navel-ftring.

Every thing went on right after delivery, by the help of a few drops above-mentioned, and the woman got well at the ufual time.

CASEV.

ASSISTED in a cafe much of the fame kind as the preceding, but was obliged to bring down the body in a different manner; for when called, I found 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 polition, 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 breech with my right hand, fo as to bring down the legs; but the contraction of the uterus being fo great against 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 felt a pulfation in the navel-ftring, as it lay fecure betwixt the thighs, which kept it from being preffed. The ifchium being much lower than the pubes, I durft not venture to bring down the thighs at that part, neither did I choofe to pull the body farther down to make 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 back 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 breech with my fingers of both hands, on the outfide of the groins, both backward and forward, but the breech being large, and firmly locked in the pelvis, I could not move the thighs in that manner either to the facrum or pubes. After I brought down the thighs and breech to the os externum, a strong pain eame on fooner than I expected, and pushed down, the body to the fhoulders, before I was aware, into the pelvis. After wrapping 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 shoulders were difengaged, and the belly yielding easier, I got it turned backward. I then delivered the body and head, as in the feeond cafe ; but the last coming more difficultly, I was obliged to bring down both arms before I could extract the fame with fafety.

CASE VI.

I WAS befpoke to attend a woman in her first child. When I was called, I found that the membranes were pushed 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 pushed up my finger farther, and found fome part of the child through them; and although it felt round like the head, yet it was foster at fome parts than others, and more unequal, which made me fuspect, as it was fo high up, that it might be the shoulder : however, as this was her first child.

child, and the parts were very firait, and the patient very young, I thought it more adviseable to wait with patience, to let the parts open in a flow 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 pushed farther through it. I could now a little more diffinctly 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 faft, especially as I found the membranes pushing down of a longish 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 reft possible. In order to amuse 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; however, as the cafe might turn out difficult for the patient, and dangerous for the child, if not rightly managed, I staid all night 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 breech 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 fironger; but fhe had not had any fince the waters began to come off. I defired fhe would ftill keep quiet in bed, thinking that now, perhaps, her fleeps would be longer, and more refreshing, if the continued any time free from pains. Accordingly the enjoyed a good deal of found fleep, during which the 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 externum gently every pain, that I 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 advanced 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 finger betwixt them, up the belly, and felt the funis, with a pulfation in it. I then introduced a finger of each hand to the outfide of cach groin, and helped down the hips lower, till 1 felt 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 the 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 forehead, inftead of being backward to the fide of the facrum, was toward the groin, and brought down with great difficulty in that polition, unlefs I could turn it more backward, by preffing it with my fingers; in order to prevent this difficulty, I turned the body a quarter more, which brought the forehead backward, as above, and then delivered as in the former cafe. The child was alive.

CASES VII. and VIII.

I WAS called by a midwife to a cafe where the breech prefented much in the fame manner as the former. It was the woman's first child, and before I was called she had been many hours in labour after the membranes were broke. The thighs were toward the pubes, and the breech was come down to the lower part of the vagina : the perinæum and fundament were pussed out in form of a large tumour by the breech, which had stopped there for fome time, and the woman's pains were grown weak and feldom. As she 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 shrinking away from me, and altering her position, I turned her on her back, as deferibed in collection xxv. No. i. cafe i. and she being firmly held and supported by aflistants, I proceeded without much interruption.

Having dilated the pirts, I applied 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 push up the breech and bring down the legs, but could not raife it above two inches. I afterwards waited fome time, to fee if the pains would push the breech farther, cspecially after the parts were fo much opened. Finding both them, and the affiftance of my fingers ineffectual, and the woman much exhausted, I introduced the large curve of the blunthook with my left hand, betwixt the fingers of my right, along on the left hip, and flipped the point in betwixt the thigh and the body of the child, till I found the point past 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 opposite groin, I gradually brought the breech 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. After 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 bringing down the legs and thighs, and wrapping a cloth round them, with great difficulty I turned the back parts of the child to the fore parts of the uterus. I tried to give a quarter-turn more, with the hip up toward the pubes, but could not move it farther; I therefore began to pull along the body of the child, which required greater force than I expected ; but at last I delivered the belly, which felt very large; upon which the shoulders and head came cafily along. Although I felt (from my not being able to give the hips the quarter-turn) that the chin, instead of being at the fide of the pelvis, was toward the left groin, yet as the head was fmall, I moved it backward, and with my finger in the month, brought the forehead to the hollow of the os facrum, and delivered as in the former cafes. When I examined the child, I found that the whole difficulty proceeded from its having been dead, fo that the belly was very much fwelled, a circumftance which I did not fuspect, as both the woman and midwife had affured me they felt the child flir : however, it had been certainly dead feveral days, for the fearf-fkin was livid, and ftripped off in feveral places.

Being called to a woman whole former labours ufed to be eafy, the midwife told me that one of the hips prefented; and although the mouth of the womb was largely open, and the patient had been in ftrong labour, yet the other

other hip did not advance, but fluck above the fhare-bone. I found the left breech pushed down to the middle and back part of the pelvis, and pretty much fwelled; and perceived that the thighs were to the left fide, and the right hip above the pubes, as the midwife had faid. 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 thill remained in the uterus, I eafily folded down the legs, and after I had brought them and the thighs without the os externum, I turned the belly to the faerum, and delivered the child, as in the first cafe.

CASES IX. and X.

I WAS ealled by a midwife to a woman who was in labour of her first ehild. The right hip was pushed down at the right fide of the pelvis; the woman had been long in labour, a great many cloths had been wetted with difcharges of blood from the uterus; and although it flowed gradually, and in finall quantity, yet the woman was confiderably weakened.

As the fore parts of the child were toward the abdomen, I placed her on her fide, 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 flood more behind the woman, and turned my hand to the fore part of the uterus; but the uterus being ftrongly contracted, I was obliged to advance very flowly, dilating as I advanced, and then could only bring down the left foot. I was afterwards obliged to pulh 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 fingers 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 descended below the pubes. I tried to turn the fore parts of the child backward, but could not till I brought down the right leg.

Finding the child was large, and expecting it would take a good deal of force to deliver the head, I altered the woman's polition by turning her on her back ; then wrapping a cloth round the thighs and breech, having already turned the fore parts of the child to the back parts of the uterus, I brought it down to the fhoulders; but finding it flopped at the head, I introduced my fingers and h nd along the break, and difcovered that the obstruction was from the forehead refting against the left arm of the child, at the left fide of the faerum. I then brought down that arm, in-troduced two fingeas into the mouth, and delivered, as in the former cafes, though not without a great deal of force; for after I had got the fingers of my right-hand into the mouth, and laid the child's body on that arm, and taken a firm hold over the fhoulders with the fingers of my left-hand, I was obliged to increase the force every attempt. Being afraid I should overstrain the jaw, I withdrew my fingers out of the month, and tried Daventer's method, by preffing down the shoulders, so as to bring the occiput from below the pubes; the head, however, being too high to be moved by that method, I again had recourse to the former; but advanced my fingers higher, placing them on each fide of the nofe; I pulled fo long, and with fo great force before the head was delivered, that I was furprifed to find the child alive. Yr

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CASE

CASEX.

I W A S befpoke to a woman who had fuffered very much in her former labours from the pelvis being difforted. When I was called to her about fix in the morning, I found the mouth of the womb largely open, and the membranes pushed down with the waters in time of a strong 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 shoulder; I could just touch with my finger the projection of the last vertebra of the loins with the upper part of the facrum. Though concerned that the child did not prefent fair, I was pleafed to find that the pelvis was not quite fo narrow as it had been reprefented.

About an hour after I came, and before the membranes broke, I examined and found them pushed farther down; and as the pain went off, I found that the breech prefented. Placing the woman in a convenient position, as defcribed in collect. xxv. No. i. cafe i. with her head and shoulders 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 tried to bring the head into the pelvis, by pulling in different directions, viz. upward, downward, and from fide to fide; but finding I could bring it no farther, I introduced my finger and hand in a flattened 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 difforted part formed by the last 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 manner as before; but as it still stuck, I pulled down the right arm; in a third trial, I brought the forehead down into the hollow of the os facrum, delivered the head, and faved the child, contrary to expectation.

CASE XI.

WAS called by a midwife, and found the breech prefenting, and the pelvis difforted. The midwife told me the all pelvis distorted. The midwife told me, that the woman's former labours had been very difficult and tedious; but now, as the breech prefented, fhe was afraid the difficulty would be greater ; obferving, that the had fent for affistance as foon as she found (after the waters came off) the position 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 nearer the fide of the bed. Introducing my hand into the vagina, I pushed up the breech of the child, and advanced along the fore 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 position to her knees and elbows, without bringing down my hand; by which means her breech was raised higher than the body. I found the refistance diminished and brought down the legs; then turning her to her back, brought down the body. After I had turned the

the fore parts of the child to the back parts of the uterus, I introduced my fingers to the face, as in the former eafe. Finding it to the left fide of the prejection, at the upper part of the faerum, and the right arm lying before it at the left fide of the pelvis, I first brought down that, and then helped down the forehead; but before I could deliver the head, I was obliged to bring down the other arm, and faved this child alfo, though a deal of force was used to deliver the head.

Five minutes elapfed before the child breathed, and it continued much longer breathing weakly, but by the use of stimulants, it began to ery, and continued to ery inceffantly, till one of the women observed a large swelling betwixt the left ear and temple. This I immediately preffed with my. fingers, on which it ceafed crying ; but in taking them off, it began again, and the fwelling that fubfided on preffure returned. To remedy the complaint, I dipped a thick compress in a mixture of oil, spirits, and vinegar; and ap) lying it to the tumour, defired the woman that held the infant, to keep her fingers prefied 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 stopped fo long at the projection of the upper part of the facrum, before the head was delivered.

C A S E S XII. and XIII.

WAS 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 pulsation in the funis umbiliealis; but as that might have been just stopped, I immediately, and with great eafe, delivered the head, by introducing my hand betwixt the neek of the child and the back 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 face 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 position, I delivered the head, as deferibed in cases i. and ii. of this collection.

Two of the patient's fifters who were prefent, finding that the child was dead, expressed their resentment against the midwife, and ordered her out of the room : however, I interposed, and defired that the might first assist in laying the woman right in bed; then I begged to hear the progrefs of the labour.

As the found the breech prefent, and had used more force than is commonly exerted, the friends had been alarmed, but were fatisfied for a little, when the affured them that the child came in the natural way, and that the patient and child would be foon and fafely delivered.

She at first brought down the body and arms easily, with the assistance of the ftrong pains, but with all her ftrength fhe could not deliver the head ; and at last was obliged to own to the attendants that the child came wrong; though not before she had made several trials after the first alarm.

I was called by a midwife, who told me that the body of the child had been delivered an hour ago; but not being able to bring out the head, fhe had defired my affiftance. As the pains were now grown stronger, she begges.

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begged I would wait a little, and if the patient was not foon delivered, fhe would introduce me to her. I enquired if the had felt any pulfation in the finits after the body came down; the acknowledged that the had felt it at first, but it had stopped 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 fame midwife to another woman, where the breech prefented, and who formerly was used to have tedious labours. 1 had told the midwife on the former occasion, that she had lost the child by not fending fooner, and defired the would never eall me again in fuch a This reproof had the defired effect, for fhe fent for me in this manner. cafe, immediately on the waters coming off, and when the was certain that the breech prefented. Finding the pelvis narrow, and that the breech did not advance with the affiftance of the ftrong pains, I brought down the legs; but as the patient did not lie in an advantageous polition, as defcribed 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 last eafes, 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 repeated efforts, I delivered the head, but in the mean time imagined it was impossible the child would be alive, as I found the neck was fo over-ftretched; and if it had not come along at the laft effort, I was refolved to have used the erotchet. ... I ftopped in the middle of these efforts, and attempted to extract with the fhort ftraight forceps; but the head was 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 me to contrive a longer kind, the blades of which are curved to one fide .- Vide the Anatomical Tables. Alfo collect. xxxv.

CASE' XIV.

WAS fent for in a great hurry to a labour, where the midwife had delivered the body and arms of the child, but after feveral trials, and the affiftance 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 the lay in a fupine pofition acrofs the bed, I pulled the body of the fœtus 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 been delivered fafely with the labour-pains, effectially when the fore parts of the foctus were to the back parts of the úterus, but commonly with more difficulty when in the above polition.

MR. — was called to a woman that had mifearried two years before, and fince that had been fubject to copious dicharges, high coloured and factid. 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 factid. The os uteri was high up, thick, but little open, which prevented his knowing the position of the factus. As the pains

pains were faint, the child advanced very little in many hours, yet fhe complained as much as if fhe had been in ftrong labour; and the os uteri was fo extremely fenfible, that fhe could not bear the gentleft touch without fcreaming. When the pains grew quicker and ftronger, fhe 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 he apply his fingers to the groins, to help the body along. He then laid her in a fupine position, and after introducing his hand into the uterus, with great ease brought down one leg, and finished the delivery. The child at first showed fmall figns of life, but afterwards recovered.

The mother, foon after delivery, was feized with a flooding, which, notwithstanding all he could do, earried her off in an hour.

Although it is difficult to judge of cafes at a diffance, yet I think, as the patient was not weak, and had firong 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 fafer for the patient to allow them to open the os uteri flowly, 'than to endanger its being toren with the hand.

CASES XVI. and XVII.

and department

In a letter from Mr. Ayer, dated Boston, Lincoln Shire.

B ETWEEN eleven and twelve at night, I was called to E. I. who was fuddenly taken with labour-pains when afleep in bed, and they had broken the membranes. When I examined, the nates prefented at the lower part of the pelvis, and the pains being flrong, I did not attempt to pufh 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 afiftance of the pains, I drew down the body of the hams, and extracted the legs. Having wrapped a cloth round the extracted parts, as the face of the child was toward the facrum of the mother, the delivery was foon finifhed, only it fluck a little at the head, and the placenta adhered to the back part of the uterus, but came off without much trouble. The child did not at firft feem alive, yet in a little time after began to cry. The patient, after being put to bcd, was attacked with violent pains in her hips and body; on which I was again fent for. As the difcharges were fmall, I fent an anodyne mixture, with Div. of theriac. androm. one half of which gave her immediate cafe.—*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 pregnancy. 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 thick 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, been much weakened by a quartan ague; her pulfe was low and weak, her body greatly emaciated, and fhe could feareely fpeak, or ftand upon her legs. Being informed that the had taken little nourifhment for feveral days, I feat for, and ordered her to take, a little toafted bread and warm wine frequently, to recruit cruit her strength, and revive her spirits. Having fent for my principal midwife, and the rest of my pupils, I defired her to keep the patient quiet in bed, which indeed was only a little straw, laid in a cold garret. In about four hours the midwife fent for me; the woman was much recruited by the nourishment she had taken; for besides the bread and wine, she had also got fome broth. Her pulse was much stronger, and she was able to walk about the room. After waiting fome hours longer, and considering the woman had formerly easy labours, I thought it was pity to keep her longer in pain, as there seemed little hope of her being delivered without affistance; for, in examining again, I imagined what I took for the elbow was a heel, and the other one of the shoulders.

Having placed the patient on her knees and elbows, according to Daventer's method, not indeed of choice, but from neceffity, for want of proper accommodation, and having her firmly fupported by the female affiftants, I gradually dilated the os externum, and, with fome difficulty, introduced my hand into the vagina. Then I found with more certainty, that the foetus prefeated, according to my first opinion, viz. the hip at the right fide, and the elbow, with the head above it, at the other fide, within the os uteri. This I tried to ftretch open; it was then about the width of a crown-piece, and could only receive the ends of the thumb and fingers contracted together, in a conical form; but the orifice felt fo thick and 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 defisted, and was afraid of ufing greater force.

The affiftants feemed much furprised 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 nourishing food; for although the child prefented wrong, yet when her frength 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, defiring one of the midwives, left with the patient, to give her a little broth frequently, and to fend for me and the pupils 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 refreshed ; after which flumbers, 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 stripping 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 XVIII. S E

A YOUNG woman going with her first child, of a weakly constitution, slender, and of a small fize, had taken very little nourisfiment during the last months of her pregnancy, and had swallowed several purging medicines,

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 feveral 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 which account I was fent for. On examining, I found it in the fame manner as the midwife had deferibed; 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 to feeble, I chofe first to try if the body could be brought flowly along in that position. After 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 fo large 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 past, without using too much violence; I then by degrees, just as a pain was going off, bent the leg to the thigh, and pushed it up into the uterus. As the woman could not be kept firm in this position, neither could I use fo steady and equal a force as to bring down the body and extract the head, as I could do while the lay supine on her back, I had her placed in that position. She had not any flooding, except fome little shows, as they are termed by the midwives; these are only a few streaks of blood, which frequently proceed from stretching 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 discover the position 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 answered best in this position. 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 break. I laid hold of the leg, and folded 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 shaped, according to her fize, the breech and body of the child came along with great difficulty. I began to turn the belly of the child 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 turned 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 affistance to help along the placenta, but it was at last feparated flowly, and fafely delivered; she luckily had no large difcharge from the uterus, but was in a very low faintish condition for feveral hours. The 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 be 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 flaid on her ftomach. For fome weeks before, fhe had thrown up moft of her food, and could fcarcely retain as much as to keep her alive; however, I ordered the following medicine; but only to be ufed if fhe fhould be taken with violent pains or reftleffnefs.—R Sperm. ceti. theriac. androm. \bar{a} $\exists i$. 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. \bar{z} ifs. Aq. alexiter. fpirit. cum aceto fyr. e meconio. \bar{a} z ij.—The next day I found her much better; fhe had got fome reft, and the difcharges were moderate, although fhe had not taken the medicines.

COLLECTION XXXIII.

Of preternatural cafes; the membranes not broken, or the waters not all difcharged; also cafes of floodings and convultions, in which it was absolutely necessary to deliver:

[Vide Part i. Book iii. Chap. iv. Sect. iii.]

NUMB. I. CASE I.

WAS called in the night to a young woman, and was told by the mef-fenger, that the was in the utmost danger from a violent colic. After my arrival, while the mother was telling me about her daughter's illnefs, I observed the colic pains returned periodically, and seemed 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 uterus firm and tenfe, above the pubes, and betwixt that and the umbilicus; then I examined 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 shoulder and arm of the foctus 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 flipped a bed-fheet, 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 externum, which was largely dilated by the membranes, during the interval of the pains. As one of thefe returned, I pushed my hand into the vagina, and against the tense membranes, to break through them, fo as to get within them to the body . of the foctus; but they being rigid, my hand flipped through the os uteri, and up into the womb, on the outfide of the membranes; then grafping them

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SMELLIE'S MIDWIFERY.

NUMB. III. CASE I. and II.

FROM FLOODINGS.

A WOMAN near her 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 house, as well as from the fatigue incurred by removing the furniture. When I arrived, the fire was extinguished; and I found her lying upon hay in a barn, lofing blood very fast. The mouth of the womb being pretty largely opened, 1 immediately broke the membranes, which, with the waters, were pushed down in every pain, and the hæmorrhage soon stopped; the patient was very cold from the feverity of the winter feason, and the thinnels of her covering. While I practifed in the country, I always carried in my pocket fome spirit of hartshorn, tincture of cattor, and liquid laudanum, in feparate bottles. Of thefe, with the affiftance of fome brandy and water, I composed a cordial and anodyne mixture, of which fhe took frequently two or three fpoonfuls; and being accommodated with more clothes from the neighbourhood, the recovered her natural heat, and at last enjoyed a plentiful fweat, and refreshing repose. The pains were flowly augmented with long intervals; as her pulse and strength returned, the labour advanced ; and although it was tedious, fhe was at last delivered. Yet her fleep was afterward interrupted by frightful dreams of fire; and fhe often awoke in a delirium ; fo that twenty days clapfed before flie was out of danger. She had fuckled her former children, but had no milk after this delivery, and but a very fmall discharge of the lochia, these evacuations being impeded by the diffurbance of her thoughts. Her greatest danger, however, feeming to proceed from weaknefs, occasioned 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 the was every now and then fubject to fhiverings, and laboured under a low weak pulfe, I prefcribed repeated dofes of the bark, and the moderate use of French claret, from which the found great benefit.

When labour is brought on, and a flooding occafioned by fach alarms, fo that the patient is exhausted by the hæmorrhage, this is either diminished 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 woman feized with a flooding in the middle of the ninth month, though no visible cause could be affigned for this hæmorrhage, and the had bore children before with eafy labours. As the discharge was not so great as to require immediate affifiance, and her pulfe was rather ftrong than otherwife, I ordered her to be bled to the quantity of eight ounces, and to be kept quiet in bed. Being coffive, the received a clyfter, took frequently two spoonfuls of a mixture composed of fix ounce of the tincture of roles, and about twenty drops of liquid lauda-The flooding abated, and fhe refted tolerably well that night; but num. when the role to have her bed made, forme large clots were discharged with a little pain, and the flooding returned, though it was foon reftrained when the lay down again. In this condition the continued for feveral days, during which, upon the least motion, fome clots, or coagula, were forced off from the vagina, and tollowed by a fresh difeharge, which, notwithstanding all our efforts to encourage her, and support her strength, gradually weakened her conftitution. It returning one evening with greater violence, I was called in a hurry, when I found her low and difpirited, 12 L l and and her friends in great anxiety and conffernation. I had previoufly informed the midwife and relations of the imminent dauger that threatened the patient, if the flooding fhould not abate, or labour come on ; and defired that fome other gentleman of the profession 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 very little open, I gently introduced the tip of my finger in order to dilate it, and defired the patient to affift my efforts by ftraining 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 flight pains that returned of themfelves. Notwithstanding feveral attempts, I could not break the membranes, until gradually ftretching 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 discharged in great quantity, the flooding immediately abated, and the child's head was preffed down upon the mouth of the womb. She now lay eafy for a long time, without the return of a pain, during which interval The was nourished and supported by frequently receiving a little broth; but being afraid that there might be an internal flooding flopped 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 adviseable to bring on and encourage the pains, by ftretching as before; and, to my with, the parts were more and more dilated, the pains grew stronger, and at last the patient was fafely delivered. During labour I frequently felt her pulfe, which, inftead of finking, rather grew stronger.

CASE III.

A MIDWIFE 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 hæmorrhage 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 the was fo low that I could fearcely feel her pulle; 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 publis by the lower part of the placenta, which lay along the facrum; however, the flooding was entirely flopped.

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 fhe continued fo weak, that for many weeks after her delivery, fhe was fearce able to walk about the room.

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

placenta prefented; that the pains were very flight and at long intervals; and that the flooding was then more violent than when fhe was called. I myfelf felt the pulfe was not fo weak as one would have imagined, confidering the quantity of blood fhe had loft.

In this patient, who had formerly 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, prefling 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 flopped as foon as the head plugged up the os internum. From time to time 1 felt her pulfe, which continued in much the fame flate, or rather turned flronger; from which circumflance, I concluded there was very little, if any, internal hæmorrhage; and her flrength was kept up by her taking frequently a tea-cup full of broth, or wine and water.

CASE V.

A MIDWIFE called me to a gentlewoman, whom fhe had formerly de-livered of feveral children. This patient was taken with a fmall dif-charge of blood in the beginning of the ninth month, when I preferibed venæsection and a clyster; after the operation of which, she received a paregoric draught. But the discharge continuing for several days, though in a small 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 presenting, though I felt through the vagina and uterus that the child's head rested against the os pubis. As the discharge 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 increasing, I received another call, when I was informed by the midwife, that the mouth of the womb was largely open, that the waters had been discharged immediately before my arrival, that the placenta had come low down, but the could feel no part of the child. A ftrong pain immediately fucceeding, I examined and found the placenta pushing through the os externum; and the delivery of this was immediately followed by that of the child, which was alive, although the placenta came first. The midwife told me, that when the found the placenta prefenting, she was cautious of touching it with her fingers, remembering, that when the attended my lectures, I had observed, that the death of the child, in flooding cafes, might be owing to its lofing blood from the laceration of the cake.

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CASE VI.

B EING 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 flopped; that feeling tomething like a flefhy fubliance come down, the had tried to pull it away, on the fuppolition that it was a falle conception, and that thefe attempts 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 many cafes, where the flooding, when inconfiderable, was eafily ftopped, and the woman proceeded to the full time.

CASE 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 effect. Upon enquiry, I found the had not gone her full time ; the membranes were broken, and there had been, and fill was, a profuse flooding. On touching, I could find no os tincæ. I then introduced my hand with fome difficulty through the os externum, but could not readily meet with the os tincæ, being opposed by a fost fleshy substance, 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 stand. However, having taken out my hand, I kept my countenance as well as I could, and adv. fed the woman to be of good cheer. Now, from the great effusion of blocd, together with the foregoing circumflances, I thought it abfolutely neceffary to attempt her delivery, by opening the contracted parts, and turning the child ; but I had no fooner fat down before her, than providentially fhe had a ftrong pain or two; and, to my great furprife, the child was brought into the world (the placenta coming first) inclosed within its membranes. This plainly convinced me of the error of some 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 :- Suppofe the child had not been born as it was, whether I should have endeavoured to pals by the placenta, or extracted it before the child? And suppose part of the os tincæ is covered with part of the placenta, how to act ?---Vide collect, xxxiii, No. ii. cafe iii.

Answer to these queries.

I had a cafe pretty near the fame kind; the placenta adhered to the lower part of the uterus, and as the os uteri began to firetch, that part feparated from the placenta, and then a fmall flooding began. When I was called, 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 prefied a little down into it. As the difcharge was not great and il e woman firong, I delayed to deliver until the os internum fhould be more open. Some hours after this, I was again called : the flooding was pretty violent; I found the os internum fully opened, and the placenta fully prefeming. I laid the woman on her back, with her thighs raifed; then introduced

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[PART II.

troduced my hand into the vagina, paffed up by the placenta into the uterus, broke the membranes, and delivered the child by the feet, by which means I prevented the placenta from coming down fift. The child was alive, becaufe part of the placenta 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 was obliged to deliver it firft, but in fuch cafes the child 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 detached, they all flipped along with eafe, and were fo fuddenly delivered.

I WAS 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 hænorrhage of the uterus, and had, every 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 flronger, 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 reft fifteen or twenty minutes before the child was delivered. We now expected the child would be loft from this laceration; but, contrary to our expectation, it was alive, and did well; the mother alfo recovered, though fhe had loft a great deal of blood, and had fainting fits before I was called.

Communicated by Mr. J----, at F-----.

BEING 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 preferibed an opiate that laid her quiet about three hours, during which the flooding abated. But when the awoke and began to fkir, it returned, though not to fo 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, I ordered cloths, dipped in cold oxycrate, to be laid ever the abdomen : this application being twice repeated, the flooding entirely ceafed, labour-pains came on, in lefs than an hour the was delivered of a live female child, and both did well.

NUMB. IV. CASE I. and II. FROM LOOSENESS.

Some years fince, bilious colics, attended with vomiting and loofenefs, being epidemical, I was called to feveral women labouring under thefe complaints at different times of pregnancy; and they were generally removed by walking the flomach and inteflines with warm water, and afterwards preferibing opiates. One cafe, however, was more obflinate. I was called to a woman who had been exhausted and weakened by evacuations tions for the space of twelve hours before my arrival. I was told by the midwife, that the was in labour of her first child, though the wanted about three wecks of the full time : but I was not allowed to examine, a circumfance at that time of little confequence, becaufe whether the was or was not in labour, the first intention was to carry off the vomiting and loofenefs, and recruit her loft ftrength and fpirits 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 these being thrown up at feveral times with a little ftraining, the took thirty drops of liquid laudanum in a glafs of brandy and water ; but this being immediately 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, moistened 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 fost, opened to the breadth of a crown-piece. I likewife felt the membranes, waters, and shild's head. The complaints beginning to return, I repeated the last dose ; and in about half an hour after fhe had taken it, fhe fell into a found fleep, which lafted feveral hours, and awoke very much refreshed, her complaints being entirely removed. All that day the felt no labour-pains; and as the was very weak, I di-rected her to take frequently a fmall draught of pretty itrong chickenbroth, by which she was gradually recruited. She slept well that night, and in the morning was taken in labour, which proved tedious and lingering, though fhe was at last 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 exhausted 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 pulle weak and flow, and her extremities cold; and fhe told me, that in ftraining upon the ftool, fhe had fomething like labour-pains. I immediately prefcribed the following bolus and draught .- R Theriac. andromach. Bij. fumend. cum haustu fequenti .- R Aq. cinnamom. fimp. 3 jfs. Nuc. moschat. 3s. Liquid laudan. gut. v. fyr. e meconio zij. M .- I directed her to drink plentifully of white-wipe whey; and ordered warm bricks, wrapped in flannel, to be applied to her legs and arms, in order to reflore the natural heat, to promote a fweat, and encourage reft. In the mean time I examined and found the os steri largely open, and the head prefenting; and by feeling the hairy scalp, perceived the membranes were broken. In confequence of what I had prescribed, her extremities became warmer, her pulse rose, she fell into a breathing fweat, and flept three hours; but being waked by a pain and fresh straining, I ordered her to take half the quantity of the former prefeription, by which means the was again relieved, dropped afleep, and, when the awaked in the evening, was quite free from the pain, griping, and flraining, though fill very weak and 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 fhe-had fome flight rains; and I found the child's head lower in the pelvis. The pains increased, and in two hours after I arrived the child was delivered.

I have

PART II.] SMELLIE'S MIDWIFERY.

I have often known, in fuch cafes, premature labour-pains vanish, and the woman proceed to her full time.

WAS 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; but that the head was no fooner forced into the upper part of the pelvis, than the patient was thrown into violent convultions, which went off and returned with every pain. She was a firong young woman, of a florid complexion. This was her first child: her pulfe being full, hard, and quick, ten ounces of blood were immediately taken from her arm: the convultions abated every pain, vantil they went off entirely; and in about an hour after they left her, the was fafely delivered.

A woman in her third pregnancy, near her full time, being taken with a giddinels, which was immediately followed by ftrong convultions, I was called by the midwife, and examining in time of a convultion, found the mouth of the womb open, and the convultion forcing down the membranes and waters in the fame manner as they are ufually preffed down by the labour-pains. She was infenfible, and thefe fits returned every fix or eight minutes. Her pulse being very quick and full, I ordered her to be bled to the quantity of ten ounces, and a blifter to be applied to her back. In con-Sequence of these remedies, the convulsions abated, and soon went off; but the was still infensible, and incapable of fwallowing any kind of liquid. The friends being averfe to my delivering her, I defired, that in cafe the convultions flould return, I might be immediately called in order to deliver her, otherwife she would certainly be lost. My prognostic 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 bleeding and bliftering, and went on to the ufual period; while others, with whom this method did not fueceed, 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 conflictation of the weather. *Wide* part iii. colleft. xxxiii. No. iii.

Communicated by Mr. Mudge, of Plymouth.

H E 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 convultions, 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 neceffary to fave her life, he examined by the touch; then putting the patient in a proper position, 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 first very difficult to be diffinguished.

as to admit a quill, and at hirt very diment to be data so obliged to defift, After feveral unfuccefsful trials with his finger, he was obliged to defift, in hope that it might be better difposed to dilate by next morning; which which time, however, he was twice called in the night, found her in continual convultions, and no alterations in the parts. About noon next day, he vifited and found her convulled without intermiffion, though the force of the fits had not dilated the os uteri in the leaft; 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 the midwife told him, that now the child's head was in the paffage. He could fearce believe this information, which, however, he found literally true, and fent for his forceps to affift in delivery; but juft as he was about to apply them, the head was forced down by the convultions; he then delivered the body, and afterwards extracted the placenta, and the convultions immediately abated.

URING the time of a pleuretic fever that was cpidemical, and often proved mortal if the patient was not plentifully bled at the first at-tack, 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 great difficulty in breathing ; for which she immediately lost 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 those who were bled too sparingly, 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 first venæsection, I followed Syndenham's method in preferibing plenty of diluents, and next morning repeated the bleeding to the fame quantity. Upon my first arrival, I had fent for an eminent phyfician, who lived at fome diftance, and he approved of what I had done; advising, that as it would be hazardous to take a large quantity at once from a person in her condition, she might be bled the oftener; and this merhod being followed, in two or three days relieved all her complaints, having prevented a suppuration, perhaps a mortification, of the pleura. Though much exhausted by these evacuations, she gradually recovered strength 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 cafes, at different periods of pregnancy, in the beginning, increase, height, and declension of fevers, and the patient commonly recovered, if milearriage or delivery happened at the beginning or declension, provided the difcharges were not extraordinary : but when the fever was violent and at the height, the patient usually died; and the child was frequently dead when delivered in the decline of the fever.

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them with my fingers, they burft afunder. As I had now introduced my hand within the membranes, I found 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 fwam up to the fundus uteri; then the nates coming 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 paffage's 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 use to me afterwards, as I discovered by it, that the waters are prevented from coming down by the arm plugging up the passage, if the membranes are not broken before the hand is introduced into the uterus; and this is a favourable circumstance when the child is large, and in a wrong position; for when the membranes are broken, and the waters pour off all at once, before the hand can be got up, the uterus contracts fo close to the body of the child, that it is then more difficult to effect the delivery.

A WOMAN bespoke 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 uteri largely open, and within the membranes the feet and nates of the fœtus ; but before mentioning this, I enquired of the patient how her former labours were, and if in the natural way : the nurse answered that they were ; but on my faying that the child came now in a wrong position, she acknowledged that both the former children came by the feet, and were delivered by different midwives, who were obliged to use a great deal of force, and each a long time before the heads could be delivered; but this circumstance 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 difforted pelvis, I imagined that the lofs of the children might have proceeded from the heads of both obstructing the circulation of the navel-itrings. Being in hope of fucceeding better, I had the patient laid in bed, in an advantageous polition, for the more speedy affistance, if the delivery should prove tedious, viz. fupine, across the bed, and her legs supported by two of my pupils, who were allowed to be prefent, as a recompence for my trouble. The pains being ftrong, the waters had by this time forced down the membranes through the os externum; into which I eafily introduced my hand, broke the membranes, and brought down the legs and body of the child a but as it fluck at the fhoulders, 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 I still felt a pulfation in the funis, I had all along, and at the different efforts, used great caution to prevent over-straining 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 03 Zz

to increase the force, as in cases of the last 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 inftant 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 using the common method to affift refpiration, it gafped three or four times, and expired. Belides my being forry that I did not try the forceps before this last effort to deliver, I also reflected, that as there was a large quantity of waters furrounding the child, that the membranes were not broken, the parts largely open, the wo man and pains ftrong, and that her children had been loft from the difficulty of delivering the head; thefe circumstances 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.

The membranes broken, the arm in the wagina, and the shoulder filling up the os uteri, in such a manner as kept up the greatest part of the waters.

BEING called to a woman in labour, the midwife told me 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 uterus, 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 and confusion in time of the operation, and having also put the patient in a supine pofition, as directed in collect. xxv. No. i. case i. I took hold of the child's hand, which was the right, with my left-hand, and introduced my right in a flattish form, up betwixt the facrum and the child's arm, where I found the shoulder closely engaged in the os uteri, which prevented all the waters from coming off; for pushing up the arm and shoulder, they, with my hand, flipped with ease into the uterus.

Finding that my arm filled up the vagina, fo as to prevent the remaining waters from coming down, I with my hand examined the polition of the fœtus, and found the head low down at the left fide of the uterus, the nates to the right, at the fundus, with the legs folded up at that fide. As there was a large quantity of waters fill remaining, I raifed the head of the fundus uteri, and brought down the legs with much greater eafe than I at first expected, and the child not being large, was fafely delivered.

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B EING called to a patient in labour of her first child, I examined in time of a pain, and found the os uteri was open about the breadth of a shilling, the membranes and waters were forced down, and gradually dilating the parts; but not being certain as to the presentation of the child, I defired a midwife, whom I left in waiting, to fend for me when she found

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found the labour farther advanced. The woman being impatient, I was again called in about two hours, when I found no great alteration, only the os uteri 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 hardness of that part, being rather softer, and more unequal. I mentioned nothing of this, but encouraged the patient, and allowed the labour to go on flowly, by which means the os uteri was gradually dilated; and at last I plainly perceived that the face prefented. In order to prevent reflections, if the child should have been lost in the delivery, I privately, without the patient's knowledge, told her friends the wrong prefentation; and on pretence that a fupine polition would affift the delivery, I had her conveniently laid in that attitude, fo that I could affift with advantage, in cafe the waters should be discharged on a fudden. By, this time the membranes had fully stretched the os uteri, and began to dilate the vagina; but being afraid they would break before they could fufficiently open the os externum, I gradually affisted every pain with two fingers in the vagina, to make room to introduce my hand, either to be ready, in ease the membranes should break, to bring the head of the foctus 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 hand, I cafily introduced it into the yagina, on which the membranes broke, and fome of the waters came off; then I pushed up the head, infinuated my hand into the uterus, and my arm filling up the vagina and os externum, prevented any more from coming down. The fore parts of the child were to the right fide of the uterus ; the pelvis was not narrow, nor was the child uncommonly large ; and there being ftill a large quantity of water, I with great eafe and fafety brought the lcgs, and delivered the child.

ONE of the poor women where the pupils attended, fell in labour in the eighth month of pregnancy, about ten days after the had been feverely beaten; she 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 cafe, 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 tense membranes relaxed, no part of the foctus could be felt. I then obferved, as this was the woman's first child, it was still proper to have patience, and allow the membranes to firetch the vagina and external parts. Having ordered the patient to be laid in a convenient poflure, as in the former cafe, to be ready to deliver in cafe the foetus should be in a wrong pofition, I waited until I found the membranes were forced through the os externum, and had fufficiently dilated the fame; but finding them fill rigid, the woman weak from want of nourifhment, and confidering the length of the labour before we were called, I thought it was proper to begin, and, if possible, to prevent the loss of all the waters, in cafe the child was in a wrong polition. As a pain abated, and the membranes were relaxed, I introduced my hand into the vagina: but feeling no part of the child, I concluded it lay acrofs the uterus, with the back, fide, or belly downward. In this opinion, I forced my hand up into the uterus, on the outfide of the membranes; which giving way, I infinuated my Z Z 2

hand within them, and was furprifed to find the whole body of the foctus 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 position 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 legs, and finding by the cuticula being livid, and ftripping off, that the child was certainly dead, and that the obstruction proceeded from the inflation of the abdomen, I refolved to open it with the fciffars, or the more certain method of 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 come down with the membranes, and the paffage 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, effectively 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.

NUMB. II. CASE I.

Marinet Salar and F

Children delivered in the four last months of pregnancy, from violent floodings

WAS fent for to a woman, who was attacked with an hæmorrhage I from the uterus in the fixth month of pregnancy, occasioned by a fall from a horfe; she complained much of pain in her left side, on which she fell, and faid her belly feemed as over-strained from the violence of the shock. She was brought home, bled, and put to bed before I arrived at che place. The parts affected were alfo fomented and embrocated, with a mixture of oil, fpirits, and vinegar. The discharge at first was but small; fhe 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 the might get as much natural reft and fleep as poffible. Next morning, finding that fhe complained more of the bruifed parts, that the discharge still continued, and that the fear of this, and the fright from the fall, had prevented fleep, she was again bled; upon which the above complaints were abated; and the being coftive, was also much relieved by an emollient clyfter. In the evening feveral fmall clots of blood were difcharged, with flight ftrainings, and the hæmorrhage returned with greater violence than before. The bleeding at the arm was repeated, and a paregoric draught given her, in which were 25 drops of Sydenham's liq. laud. by which means the difcharge again abated, and fhe flept pretty well all night. The complaints from the fall were now much better; but fhe being much dejected on account of the danger of miscarrying, I endeavoured to soothe and assuage her fears. I, defired

defired her to keep chiefly in bed; to continue drinking barley-water acidulated; to live mostly on weak broths and panada; and to abstain from fermented liquids, and every thing that was not of cafy digestion. Nevertheless, for feveral days, a bloody ferum was continually draining; and every now and then fome coagula came off with ftrainings; which brought on a fresh hæmorrhage, that soon 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 difcharge of a large coagulum of blood was followed by a violent flooding, which still continued. I found her pulfe low, her countenance pale, and fhe was fo faint that fhe could fcarcely speak. I had all along told her friends the great danger to which she would be exposed, if the flooding should return and increase before labour came on. Although she had already lost a large quantity of blood, yet it was by intervals ; and there had been time between the difcharge to recruit her ftrength by the above-mentioned light nourifhing diet. I now found the discharge rather increased ; that there was little probability of restraining 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 flyptics 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 fœtus.—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 profession ; who came accordingly. After being informed of every circumstance 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 polition, as defcribed in collect. xxv. No. i. cafe i. and iv. expecting, as it was her first child, it would require a good deal of force, and cost 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 fheet below the patient, and being feated properly, I began gradually to ftretch the os externum. Having made room for my fingers, which were contracted together in a conical form, I continued moving them flowly in a femicircular manner and by intervals, till at laft I introduced 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 deception she bore the pain with great fortitude. I now found the os uteri 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 last 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 also ineffectual, fo that I thought proper to defift. The patient having undergone much fatigue, we ordered her ten drops of liquid laudanum in a cup of burnt red-wine, and applied cloths dipped in vinegar to the external parts, and over the abdomen. Happily for the woman, we

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we found that the flooding was again diminished; and agreed, that fupporting her as before with nourifhing 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 parts should grow more fost and yielding, or the labour become more vigorous. About nine or ten at night, the flooding returned, but was foon reftrained by giving a draught with 15 drops of liq. land. She continued in this way for three days, the flooding returning four or five times, and abating on repeating the draught. At the end of this period, fhe 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 last 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 smallness of the child. To prevent the weak patient's fainting, from the fudden emptying of the uterus, I defired one of the affiftants to prefs on her belly with both hands; and after I got hold of the feet of the child, I flowly 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 eafily delivered; it came into the world alive, but died in a few hours after its birth.

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 part of it adhering firmly, and feeling like a fcirrhous fubftance; I therefore did not venture to feparate it, for fear of tearing the inner fubfance 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 lok by using too great force to feparate the placenta in the feventh 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 pulle; for these reasons I preferibed five drops of liq. laudanum in a little burnt claret, applied a cloth dipped in vinegar to the abdomen, with a long towel pinned round her body. We were obliged to keep her lying on her back, with her head and fhoulders in a low polition. for at least two hours, before we durst 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 also repeated the fame dofes of liq. laudanum a fecond and third time; in confequence of which, the fell into little dozing flumbers, and at last recovered from the most imminent danger. She continued in a weak condition for many days: that part of the placenta which was left behind communicated a difagreeable and mortified finell to the difcharges, and did not feparate and come off before the fifth or fixth day after delivery.

I have been the more particular in defcribing every circumftance of this cafe, to flow your practitioners the difficulty and uncertainty of managing flooding cafes, effectially in the laft four months of pregnancy; for they frequently flagger the judgment of the moft experienced practitioners.

B EING called by a midwife to one of her women, who had been attacked with a flooding for feveral days, and was then only in the feventh month of uterine gettation, the midwife told me, that the patient had PART III.]

had been bled, and every thing done to refirain the difcharge ; but now it was increased to that degree, that it had run through the bed; that she had undergone frequent faintings, every one of which it was feared would be her last; the midwife also informed me, that she had something 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 fœtus presenting. I gave the patient five drops of laud. liq. in a little red-wine, and repeated the fame every five minutes for three times; not daring to give more at a time, on account of her weak condition, as the flooding still continued. When the feemed to have a little straining, I tried to bring on a pain, by ftretching the os uteri with one of my fingers; this forced the membranes and waters down fo ftrongly, that I broke them; but finding, after waiting fome time, that this had not the defired effect to restrain the flooding fo much as 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, I ftretched the parts gradually, and delivered the foetus; but as it was her first 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 using great force, in order 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 case ix. of this collection.

> CASE III.

A REAL PARTY CARLES AND A REAL PARTY OF THE
MIDWIFE fent for me to a woman who was exceffively weak and low A MIDWIFE fent for me to a woman who was excellively weak and low from a violent flooding. She had formerly been delivered by a gentleman of feveral children. The midwife at first informed me that she had been but lately called ; that the patient had loft a great deal of blood, and was in the utmost danger from frequent faintings. The woman's pulse was fo low that I could with difficulty feel its motion; a cold dampnefs overfpread the face and extremities, and fhe could fcarcely fpeak. On examining, I found the mouth of the womb largely open, the placenta lying over it, and the vagina filled with coagulated blood. The husband begged I would do all in my power to fave his wife. I told him the cafe was dangerous, and fo much time already loft, that I was much afraid the would expire in the operation. All prefent were convinced of the danger; I was moreover informed, that the patient had a small degree of flooding for feveral days; but that evening it had increased with greater violence, and was attended with some labour-pains ; which last 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 little falt, to which was added fome redwine; a little of this was given immediately. In the mean time I prepared every thing for the delivery, and defired the midwife to move the patient

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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 recover from the fwoon. When recovered a little, fhe, in a low tone, begged earneftly to be delivered. Her ftrength 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 womb. 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 taking hold of the legs of the foctus, 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 purpose 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 quan-tity of water still detained. I defired that the pressure might be increased when I withdrew my hand; and although the head was at first downward, it cafily turned up to the fundus when Ibrought down the legs. Finding the patient bore the operation without 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 frefly and well coloured. After 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 respiration, which gradually increased, with rattling in the throat; at last the fell into faintings and convultions, which foon elofed the difmal fcene, by putting a period to her life.

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 been called fome days before, and ordered what he thought proper in fuch circumstances; but the complaint increasing, 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 increased and diminished by intervals; but as the found nothing like labour beginning, the defired the patient might still continue to take what was preferibed by her physician. She was again called next evening, when the found fomething like labourpains, the mouth of the womb a little open, and fome foft fubitance 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 flooding continued to gain ground, the hufband went for the doctor, but did not find him at home: The hæmorrhage increasing, and the woman appearing to be in imminent danger, he went again and found the doctor in bed ; who faid he could not go with him, becaufe he expected to be called every minute to another patient, to whom

whom he had been previoufly engaged. In a word, he could not be prevailed upon by all the intreaties the gentleman could make; fo that immediately after the hufband's return I received a call.—In a little time after this occafion, he was, for neglecting a patient in the fame circumftances; exposed, fued, and caft in a confiderable fum of money.

CASE IV.

A MIDWIFE fent for me to a woman, and told me her patient was attacked in the beginning of labour with a discharge of blood, which was not violent at first; but as she found it increase, the defired my affistance. Before my arrival the membranes had given way, and one of the child's arms come down into the birth. I underftood the flooding had diminished, 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 shoulder pressed in at the upper part. Being afraid, if I delayed the delivery, it would be more difficult to turn the child, I caufed the patient, as fue already lay in a fupine polition, to be brought down to the foot of the bed; the weather being cold, and that part nearest the fire-place.' I ordered two affistants to fupport her legs; and as it was not her first child, I easily introduced my hand into the vagina. There being a small quantity of waters retained in the uterus, from the shoulders plugging up the os uteri, I with great eafe pushed up the arm and shoulder 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 employed in dividing the funis of the child, which was alive, one of the affiftants told me the woman was fainting away. I immediately gave her the child, and preffed on the abdomen of the patient with both my hands, having forgot that precaution in time of the delivery ; but inflead of recovering from the fainting, fhe was immediately thrown into convultions, and died inflantly. Befides the preffure on the abdomen, every method of flimulating was tried to prevent the fatal cataftrophe, as volatile falts, fpirits, and burnt feathers held to the nofe, to quicken respiration, also frictions of the temples, arms, and legs. I reflected afterwards, that the fainting did not proceed from any new evacuation of blood after the delivery, as there was very little on the cloths, but from the neglect of the preffure. As the flooding had stopped after the membranes broke, it perhaps had been fafer to delay the delivery till the patient recovered more ftrength, or at least until the pains returned, which were gone off on the difcharge of the waters; for the shoulder of the focus would have kept up the remaining waters until those efforts returned.

CASE V.

A WOMAN of a very weak habit of body, having been under great affliction for the loss of her hufband, was fuddenly taken with a violent hamorrhage, upon which a gentleman, who had been befpoke to lay her, was fent for about four in the morning; but he being otherwife engaged

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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 loft for want of proper affiftance. In this emergency a midwife had been alfor called, who told me that the patient had fome flight pains, and had not loft much blood; in which affertion she was contradicted by the attendants, as well as by the woman herfelf; they defired me to examine the cloths, where indeed I found a large quantity; and was informed that the midwife made flight of the affair, to prevent another being 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 gentleman, as he might now be difengaged; but this was objected to, as it would take up too much time, especially 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 membranes and part of the placenta prefenting. I introduced my hand in a conical form into the vagina, intending to break the membranes, that the waters, after being difeharged, might allow the uterus to contract to the body of the child, and reftrain the flooding; but the membranes were rigid; and in making an effort to lacerate them, my hand flipped eafily through 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 ordered 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 first to be in a good way; but having lost 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 arms, 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 these precautions, she enjoyed fhort, yet interrupted flumbers, and recovered, contrary to my expectation; but was feveral weeks to low that the could not fit up. In about fix weeks after, the was carried to the country, and recovered her ftrength by drinking affes-milk.

CASE VI.

I WAS called to a patient attacked with violent flooding in time of labour. My attendance had been belpoke. I found the os utcri rigid, and open about the breadth of half-a-crown. This trial being made in time of a pain, I waited till it went off; and the membranes 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 umbilicalis lying backward toward the facrum, in two or three doubles. As fhe had not had a flool for two days, one was procured by adminifering an emollient clyfter. Having waited fome time, and finding the pains were but weak and feldom, I fent for Mrs. Maddoeks, a midwife whom I kept on purpofe to attend my patients in lingering cafes, and defired her to put the woman to bed, in hope fhe would obtain fome fleep; but enjoined her to ferd 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 surprifed 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 life. 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 flows, or a very finall appearance of blood on the cloths; but that all on a fudden fle was attacked with a flooding in time of making water, and that it still 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 restrained in time of the deliquium. The patient recovering, and taking a little wine and water, I felt the os uteri largely open, the membranes pulhed farther down, and part of the edge or fide of the placenta at the left fide of the os uteri; I also with more certainty diffinguished the funis on the infide of the membranes, and the head in the/fame pofition refting above the pubes. This cafe being uncommon, I was uncertain at first how to proceed; but at last confidering with myself, if I broke the membranes to evacuate the contained waters, fo as to allow the uterus to contract and restrain the flooding, the feetus would be lost by the preffure of the head against the funis in time of delivery, I refolved, in order to prevent this misfortune, to turn the child, and bring it along in the preternatural way, which would give a better chance to reftrain the one and fave the other, if the operation 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 replenish the emptied vessels. Having affigned to the midwife and the other affiftants their proper flations, and prepared every thing neceffary, I examined in time of a pain, which forced out fome coagula of blood from the vagina, with a fresh discharge. As the patient lay on her left fide, I kneeled down on a cushion behind, introduced my right-hand into the vagina, and as the placenta was at the left fide, I turned my hand fo as to flide 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 increasing the pressure as the uterus emptied. The patient endured all this with great fortitude.

Having cleared away the wet cloths, and applied dry ones to the parts, I obferved that the flooding was diminished, 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 ftrength and spirits recruited, I delivered the child, which was small, with great ease, and the secundines followed. The preffure was continued on the abdomen of the patient until a long towel was applied round her middle, and secured fo as to do the office of a firm bandage. The child was very weak at first, but recovered. The mother continued in a low condition for many days, being supported with broths and cordials, but was able to get out of bed in three weeks.

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CASE VII.

[PART III.

THE midwife, when called, was informed by the patient that her pains were but flight and foldome but the were but flight and feldom; but fhe was much alarmed at fome blood that came away every time, as there had been no appearance of any fuch complaint in her former labours, When the midwife examined, the found the mouth of the womb a little open; but could not diffinguish any pare of the child; and the woman being of a weak and delicate conftitution, fhe told the friends the danger fhe would foon be in if the difcharge increafed. On this information Dr. Gordon 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 strong labour come on. Soon after this the patient was taken with violent and frequent retchings, which very much increased the flooding. On this I was immediately fent for; but being 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 being informed of the meffage, reached the house before he could arrive. The labour-pains by 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 waters 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 proposed to fend and prevent the other gentleman's coming, as he lived at fome diftance; but I told them by no means, as the woman was still in the utmost 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 arrived. I had given her every now and then a little broth and wine to recruit her finking fpirits; and when he examimed, he told me that he found those parts mentioned above, and likewife the head of the child forward and refting above the offa pubis. This I had not perceived; for as the 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 left, I eafily found the head refting above thefe bones. After confulting together, and confidering every circumstance of the case, he at first propeled, as the flooding was diminished, to give the patient a paregoric draught, 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 blood, attended with a return of the flooding, which ran over the bed. This fudden change altered our former refolution; and we now concluded, that the only method to fave the patient's life was a fpeedy delivery. Indeed I was of that opinion at first, on account of her weakness, as well as in respect to the fafety of the child, as the funis had fallen down before the head. The fide of the bed being wet, and at a diffance from the fire, I had the patient turned to her back, and moved down to the feet. While two affiftants fupported her legs, I kneeled down, and, with greater eafe than I expected, introduced my hand into the uterus, and delivered the child and fecundines, much in the fame manner as in the former cafe; having taken almost the fame precautions 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 circumfance which plainly flewed that it had not been long dead. As the flooding

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, left her weak flomach fhould be over-charged, and bring on again the retchings, to which fhe was very fubject (as the nurfe informed us) even in time of health. We likewife directed her, if fhe fhould not get refrefhing reft, or if the flooding fhould return, to fwallow the paregoric draught already preferibed; in which were twenty drops of tinct, thebaic. By thefe precautions, and proper attendance, fhe feened 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.

Contraction of the second CASE VIII.

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 go to his wife. He informed me that fhe had been in labour above 24 hours; that the had formerly eafy labours; but now the 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 increased as the mouth of the womb opened; but that fhe had all along found an uncommon fubftance prefenting, and had fome hours ago defired the friends to fend for a doctor; a proposal to which the woman herfelf would by no perfuasions 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 I fignified to the hufband and friends the great danger, declaring I was apprehenfive fhe would expire in time of delivery, and that it was a great pity fhe would not allow affiftance to be called for before it was too late. Her fifter begged that I would deliver the child, as it was now the only chance to fave her life; and if the thould die, no perfon could be blamed. I ufed all the precautions as in cafe vii. but in paffing up my hand by the placenta into the uterus, I could not break through the membranes. I was therefore obliged to withdraw it, and pufh my fingers through the placenta; then I delivered the child in the preternatural way, on which the flooding flopped; but fhe was fo weak that fhe expired in a few minutes. Yer, contrary to my expectation, especially as the placenta prefented, and was tore through the middle, the child was alive.

CASE IX.

A WOMAN aged about 30, who had been delivered of feveral children before, was taken with a violent difcharge of blood from the uterus; fhe was immediately bled, opiates and reftringent medicines were preferibed. They reitrained the hæmorrhage a little; but it returned 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 begged 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 belly be the grave of the child. I complied with their requeft, and delivered her much in the fame manner as deferibed in cafes vl. and vii. of this collection and No. but unluckily, luckily, when ftretching the os uteri, which felt thin and rigid like a piece of parchment, the woman shrunk 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 inftant I felt 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 diminished after delivery, on giving her 15 drops of tinct. thebaic. but returned in two hours, and ceased again on repeating the fame medicine. She flept pretty well all night, was next morning much recruited by the refreshing relt and nourishing diet ; but soon after was attacked with a violent hæmorrhage from the vagina, by which fhe 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. peruy, and a nourifhing diet, recovered. The child was alive, and at the full time. Vide collect. xxxv. cafe x. and collect. xl. cafe viii.

As I principally write for the instruction of young practitioners, I have inferted the following cafes of floodings, fent me from gentlemen who formerly attended my courses of midwifery, as I think they may be also useful for the same purposes.

C A S E X. by Mr. Gr----.

and the support of a state of the

W 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 occasion of bringing on a flooding, for which she 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. That night I gave her ten grains of the pilulæ faponac. and next forenoon fhe was confiderably better both as to the cough and the flooding. In the afternoon fhe was ordered to take two spoonfuls of a cordial and pectoral julep frequently; the pills were also 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 first examined, the os uteri was not in the leaft dilated ; but this day fhe having had fome flight labour-pains, it was open about the largeness of a sixpence. As the was coffive, I ordered a clyfter, which had its proper effect; and after that the following mixture, to ftrengthen and encourage the pains:-R Pulv. boracis zij. Tinct. castor. croci. aā zj. Spir lavend. Sal vol. oleos, aa gt. xl. Aq. cinnamomi ten. 3j. Aq. menthæ 3vj. Syr. croci. 3jfs. Cap. cochlear. ij. fecunda quaq. hora.—After this her pains came on ftronger and more frequent; but all on a fudden fhe was attacked with a violent fit of coughing, which again brought on the flooding, and forcing down a large quantity of coagulated blood. In this emergency, I was fent for in a hurry, and found the os uteri largely dilated, the placenta prefenting, and feveral lobes of the fame feparated from the membranous part, and lying amongst the coagula that had been discharged. At this time she had no pains; and the midwife told me that the waters had been come off about an hour before I arrived ; this was about one in the morning. Finding her faintish, with fcarce any pulfe, and her extremitics almost cold, with a clammy sweat upon her head and hands, I told the friends the danger fhe was in, and the necessity of delivering the patient directly. Having put her

her in a fupine polition, and ordered every thing necessary to be in readinefs, as the placenta lay in my way, I first 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, fluck in the paffage, until I introduced one of my fingers into the mouth, and depressed the lower jaw, which afiifted the head to come along with great eafe. On examining the child's body, I perceived it had been dead many days, from the livid appearance of the fame, but more especially from the fcarf-fkin being ftripped off in feveral places. As the fecundines did not follow the delivery, I again introduced my hand, and brought them down, with the remaining part of the placenta; and ordered the patient fome ol. amygd. d. and fyr. ex althæa, for her cough ; also fome ther. Venet. with pulv. Gascon. to warm her, and promote perspiration. When I faw her next morning she was a little feverish; the lochia were in a small quantity, and her cough was much abated, and she had got tolerable good rest. To assuge the fever, and affist the uterine difcharges, I ordered her to take repeated dofes of the faline draught, fweetened with fyr. diacod. which relieved her much; and by proper nourishment she recovered better than I expected,

G A S E S XI. XII. and XIII. By Mr. Mudge, of Plymouth.

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I WAS called to a woman in the forenoon, about half an hour after eleven o'clock, and was informed, that as fhe was fpinning in the morning at fix, she found fomething gush from her with so much force, as made her fuspect it to be the waters; but on looking on the floor she found it was blood. She had continued flooding in that violent manner till I was sent for; she 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 almost without any pulse. I was showed a chamber-pot three parts full of pure blood; and it was now pouring down in fo great a quantity, that I imagined the only chance to fave her life was a fpeedy delivery. After acquainting the friends of the imminent danger, I examined, and found the parts greatly relaxed, and the head of the foctus prefenting to the birth, which I paffed with my hand to feek for the feet; but the first thing I met with was the placenta, quite detached, and lying loofe in the uterus. This puzzled me at first, and made my coming at the membranes fomewhat difficult and confused; however, I got to them, tore them open, and ta-king hold of the feet, brought them down to the passage, and soon finished the delivery. On introducing my hand to bring off the fecundines, I found the uterus not contracted, but lying like a loofe unelastic bag in the abdomen. The flooding Ropped directly, and the woman feemed much revived. I gave her 20 drops of liq. laud. in a cup-full of mulled port wine; but not having a fufficient quantity of blood left in her veffels to carry on circulation and vital fecretions, fhe died in about half an hour after deliverv.

The fecond cafe was of another woman, nearly in the fame circumftance as the former, with only this difference, that the had not loft quite fo much blood. When the fent for me, I found her flooding very fait. She was come to her full time, but had no pains, nor any appearance of labour. I gave her an opiate, and defired her to keep quiet in bed. This was was 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 cafe was too frefh in my memory to delay my affiltance in this; I 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 the 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 a ftrong 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 fhe fhould keep quiet in bed. The hxmorrhage abated, but returned next day; when it was again stopped by repeating the opiate, and ordering her a course of faline draughts. For 12 or 14 days, the patient continued to have frequent returns of the floodings, which were as often restrained by the above methods; at which period, being fent for again in a hurry, I found the difcharge violent, her pulse exceeding weak, her countenance pale, her eyes funk in her head, and to all appearance the was in a dying condition. I immediately gave her a large opiate in a cordial draught, that it might have the full effect by the time the delivery was finished. As foon as every thing necessary was prepared, and the patient laid in a right position, I introduced my hand, and found the right arm of the child in the passage, which was easily and gradually pushed up into the uterus. This I found strongly contracted, the waters having, as they informed me, gone off three days before. With my hand I gradually dilated, until I reached the feet of the fundus; and bringing them down with fome difficulty, I finished the delivery in the usual manner, after giving the proper turns, that the fore parts of the body should 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.

C A S E XIV. Ry Mr. M.

WOMAN 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 had no pains; her pulfe was high and quick. 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 her miftrefs was dying; and was met by another in the way, repeating the fame exclamation. On my arrival, I indeed imagined the patient was juft 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 loft their luftre, and the blood was pouring from the parts. As nothing but inftant delivery could give her the leaft chance, I informed the bufband of the circumitance. He confenting, I then feated myfelf, and hiving introduced n hand into the vagina, found the os uteri much to one fide, and fo li the d lated, that I could fearce introduce my fore-finger; but by ftretching th fane gradually, and flipping

flipping in one finger after another, I at last dilated it fo as to receive my whole hand. The first 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 them down to the passage, and with great ease finished the delivery ; but in the hurry to fave the woman's life, one of the child's arms was broke; which I afterwards reduced; and it proved a ftout hearty boy. The patient recovered, contrary to the expectation of all prefent; and both fhe and the child, I am perfuaded, must have inevitably perished, if this method had not been taken, or even if it had been longer delayed. I again repeated the opiate in a cup of mulled wine, notwithstanding which, in about five or fix minutes after, a fainting fit liad nearly carried her off. To prevent any farther discharge, which, though trifling, she 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 constitution:

C A S E XV. By Mr. M. A. of E-

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A WOMAN aged 40, and feven months gone with the feventeenth child, was threatened with a flooding; for which the walled, and confined to her bed for four weeks ; after which the hæmori ... ge returned, and continued, though not violent, for two days; on the third; at three in the morning, the blood came away in a torrent, and overflowed the whole bed: When I arrived, which was about five, the patient was faintifh; with fearce any pulfe to be felt; on which I intimated the great danger, and that it was abfolutely neceffary to deliver the child as foon as poffible. When every thing was prepared for that purpole, 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 re-maining leg or arms. The child was large and healthy, according to the woman's time of reckoning; the hæmorthage, though not violent, con-tinued two days longer, and the mother recovered.

XVI. By Dr. D. of T----. CASE

HE was called to a woman in the eighth month of her fixth child, who had been fubject to floodings for two months before. The nurfe showed 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 first to know what prefented. As the patient was exceffively weak, faint, and low, he was afraid the would expire under his hands. He told her friends, that the only way to fave her life was a speedy delivery; however, he tried to raife her spirits with gentle cordials; a clyster was alfo administered, with a view to affist the pains, which were but trifling; and when it operated, the coagula were forced from the vagina. As the flooding still continued, he had the patient placed in a supine position, and having introduced his hand into the vagina, found the placenta prefenting; after which, with great eafe, he dilated the os uteri, slipped up his hand on the outfide of the membranes, and with fome difficulty tore them afunder. Although he found the head of the child prefenting, he

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durft not, as the woman was lying like a corpfe, wait for a natural delivery, but immediately turned the fœtus, 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 agreeably furprifed that there was no fenfible flooding; 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 fhort every thing was to his wifh; but a fever intervened, with irregular horrors and rigours, attended with fingultus and delirium; and in fpite 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 collect. xxviii. cafe v. and xxxiv. No. ii. I fent him the following answer:

SIR,

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 first, 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 polition into a natural, when the waters are discharged, and the uterus strongly contracted, and embracing the body of the foctus. As to the cafe of flooding, it was indeed enough to damp your fpirits, and even to have had the same effect on an old experienced practitioner. No doubt the woman retrieving her fpirits and ftrength after delivery, gave you great hopes of her recovery; but the iffue fhows the un-certainty 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 doses of the bark. Your management of the third cafe was alfo very proper; and, as you observe, the forceps should never be used but when abfolutely neceffary. Indeed, when the head is fo low in the pelvis, that you are certain of fucceeding, and the pains gone, or too weak to force out the fame, that inftrument supplies the place of hands, when the fingers flip and cannot take a proper hold; but even 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 difficult cafes happen in your practice, which will much oblige, your's, &c.

NUMB. III. CASES I. and II.

Women attacked with convultions; the children delivered preternaturally.

A MIDWIFE fent for me in the morning to a patient whom fhe had attended all the foregoing night; and who, without any accident, or previous warning, was all on a fudden thrown into fits. At first they only returned every two or three hours, but afterwards more frequently. The woman had all along been stupid and fenselefs. The midwife told me that the patient was in the beginning of the ninth month of her pregnancy; that the formerly delivered her, when she had an easy time, and no such complaint; that the mouth of the womb was a little open, but she had not found any thing like labour-pains. Soon after I came, she fell into a fit, during which I examined, and found the os uteri a little open, and that the convultion feemed to act with the fame kind of effort as a labour-pain. As her pulfe was full, I ordered ten ounces of blood to be taken from her arm. arm, and a blifter to be applied to her back. No medicine could be given internally, as the could not fwallow any kind of nourithment fince the first 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 observed, there was no appearance of labour, yet the violence of the agitations and strainings in time of the fits, might have proved fufficient to deliver the child; but I was afraid it was dangerous to allow the convultions to go on longer, and was perfuaded that a fpeedy delivery was the only probable method to fave the patient, as well as the focus. After informing the friends of the danger, and the neceffity of relieving the woman by delivery, and having placed, the affittants to keep her in a firm position, 1 with great ease introduced my hand through the os uteri, broke the membranes, turned the child, and delivered it by the feet.

The child was alive, and the mother had not another fit after the de livery; but she remained stupid and fenseless for three days, then became gradually more and more fenfible, and would not believe for fome time that fhe had been delivered.

Some time after, I was called to a poor woman near the Seven-Dials, and was told by the midwife, that the patient was come to her full time, that , labour was just begun, and at every pain the was thrown into a violent convullion fit. The pains were not frequent, she was fensible between the fits, . the os uteri was a little open, and the head of the child prefeated. As her pulse was quick, I ordered twelve ounces of blood to be taken from her arm, and a large blifter to be applied on her back, betwixt the fhoulders; a clyfter was also administered, which gave her a plentiful passage. 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 house, they again sent for me, but being then engaged with one of my own patients, I sent one of my oldest pupils, and defired him, if the convultions did not abate, to deliver the woman im nediately. At first he found the patient in a doing or comatole way, but foon after the was attacked with a violent convultion fit ; he told her friends 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 midwife 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 affistance. On my arrival in the evening, I found the patient was in a comatofe state, and now quite insensible; the fits more frequent, with tremors and subfult. tend. On this I told the friends the uncertainty of faving her; and was forry to find that they had prevented the gentleman from allitting 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 gentheman who was with her in my absence, told me, that the convulsions had dilated the os uteri a little every time; however, it being her first child, it required 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 not fo fortunate as the former; for although the placenta came eafily along, and the uterine difcharge was sufficient and moderate, yet the convultions were not restrained; but becoming more frequent and violent, carried her off in two hours after delivery. CASES

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CASES III. and IV.

WAS fent for by a midwife, who told me that her patient's labour had gone on exceedingly well until the control of the patient's labour had gone on exceedingly well until the waters came off; but foon after that happened, the was attacked with ftrong convultions, which went off, and returned every time when a labour-pain began to come on. The os uteri was fufficiently dilated. The head of the foctus prefented at the brim of the pelvis. The woman's pulse was 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 convultions growing more violent and frequent, and the head not advancing in the least, I thought it most expedient, in this uncommon cafe, to deliver by turning the fætus; 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 convultions when the fell in labour; for which the was immediately bled, and a clyfter was given, which had the defired effect. Nervous medicines and opiates were also administered; the last to allay the pains that feemed to bring on the fits; for every time a labour-pain came on, fhe was thrown into convultions. The os uteri was open about the breadth of a crown-piece, and a hard unequal fubstance being felt, at first 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 althæa. In about three hours after this prescription, 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 stronger, and more frequent. In these dangerous circumstances, dangerous both from the convulsions and bad prefentation of the child's head, I thought it was wrong to delay the delivery any longer. All prefent being made fentible of her fituation, I had the patient kept firm in bed in a fupine position, and gradually dilated the parts; which required time, and a good deal of force also. I brought down the feet of the child, and delivered, though not without greater fatigue than I 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 first 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 prefen-tation prevented the head from coming along, I made the trial to turn down the vertex; but that failing, I delivered in the preternatural way.

COLLECTION XXXIV.

Of preternatural deliveries, in which the membranes were broken, the waters evacuated, and the uterus was closely contracted to the body of the fatus.

[Vide Part i. Book iii. Ch. iv. Sect. iv. and Anatomical Tables, xxxi. xxxii. xxxii.]

NUMB. I. CASE 1.

EING 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 present fair for the birth, she had defired my assistance. On examining, L found the hands and feet prefenting, and come down into the vagina, to_ gether

gether with the funis umbilicalis, in the arteries of which there was a strong pulfation. This last circumstancee I did not mention, because this being the woman's first 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 lost by the unskilfulness of the practitioner. As the patient was then in bed, and lying on her left fide, I tried to deliver her in that position; but heing prevented by her flying from me, I was obliged to turn her on her back, and across the bed, with her breech to the fide, and her legs fupported by two affiftants. Having confined her to this advantageous polition, I gradually introduced my hand into the vagina, and in a flattened form slipped it up backward, between the facrum and those parts of the foctus that prefented, into the uterus; there I found the breech 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 small, the body and head were easily delivered, as described in colleft. 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.

CASE II.

and the state of the

I WAS called to a cafe, in which the child prefented nearly in the fame manner as the former : only the funis was a full manner as the former; only the funis was not fallen down into the vagina; but after the body was delivered, the head of the child fluck 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-ftraining the neck, if I repeated thefe trials and increased the force. The patient being in a supine position, I introduced a blade of the long forceps, that were curved to one fide, up along each fide of the pelvis, while an affiftant held up the body of the child to give more room for their application; and having 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. Thefe two fuccessful cases 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-straining the neck in delivering the head; but a third, in which I failed, showed, that we ought never to trust too much, or be over fanguine, with respect to any particular method of practice; but vary the same 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 are certain that the child is alive from the pulfation of the funis, or motion of the body, or would prevent overftraining the neck, or avoid using the crotchet. Vide table xxxv. of the anatomical figures .- Vide cafe v. of this No. and the viith.

CASE III.

WAS called to a woman in labour; the legs, arms, and funis, were forced down into the vaging, the left here is a start of the second se forced down into the vagina, the laft hanging without the os externum; no pulfation in the veffels; the waters had come off long before, and the midwife

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, with a defign to keep them warm till I arrived. As the patient was in bed, and lying on her left fide, I fat down behind her, and found in time of a pain the funis pufhed down, without the os externum, and there was not any fenfible motion in the veffels. This not being the woman's first child, and the midwife having allo furficiently 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 little to the right fide : the breech was to the left fide, and higher than the head. I brought the legs down from the vagina, and wrapping them in a cloth, tried to pull down the thighs and body ; but the head being fo low, prevented their defcent. Finding the foctus large, I turned the woman into a fupine polition, 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 I pushed it up to the fundus uteri, pulled down the legs farther, by which method the breech was brought lower, and the head prevented from returning to obstruct 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, to deliver the head; and indeed if the child had been alive, it would have run a great risk of being lost from the over-ftraining of the neck.

WAS called to a woman who had been long in labour; on examining the part that prefented, it felt very much like the fhoulder-blade; but on the midwife's informing me 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 first child, and finding her much exhausted 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 former labours had been quick and eafy, I thought it was pity to keep the patient longer in that diffreffed condition. Having ordered every thing necessary for the delivery to be in readiness when wanted, I had the patient firmly fecured in a fupine polition, and on introducing my hand, found the left hip prefenting, the shoulder and head near the fundus uteri, to the right fide, and the legs and arms backward. This examina-tion being made, in a flow and gentle manner, I first 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 lowest; this being very flippy, and the uterus ftrongly contracted, my hand was fo cramped that I was obliged to grafp the foot between two of my fingers, to bring it without the os externum. I afterward brought down that leg and thigh, and tried to bring the other alfo, but was prevented by a ftrong pain that forced down the left hip into the pelvis; upon which I introduced two fingers of my right-hand, and hooked them in the back part of the child's right 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 deferibed in the breech cafes. The child lay fome time, but recovered.

CASE V.

THE head, in this cafe, was to the right fide of the uterus; the breech on the left, near the fundus, with the arms and legs backward, as ih the former cafe; but as the uterus was not fo ftrongly contracted; fome of the waters still remained. I grasped the body with my left hand, and raising the head and shoulder to the fundus uteri; by which the breech was brought to the lower part, the legs with great ease were grasped and brought through the os externum:

I had the patient moved in the fupine polition. Having brought down the body and one arm of the child which lay before the face, I introduced two fingers of my left-hand into the mouth, as in collect. xxxii. and the fingers of my other over the fhoulders ; then trying 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 tried Daventer's method, by preffing down the fhoulders to bring out the occiput from below the os pubis; but this failing. alfo, and finding there was still 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 inftrument; but it being too fhort, and the head above the brim of the pelvis, 1 could not fix them properly to as to render them of any ufe to affift the delivery .--- Vide eol. xxxv. cafe it.—This method failing, and the pulfation of the funis beginning to grow languid, 1 again took hold of the child as at first, but finding the under-jaw like to be over-ftrained, I fixed a finger on each fide the nofe, and ftanding up in time of a ftrong pain, I exerted a deal of force ; as the forehead of the child was backward above the projection of the upper part of the facrum, I had already turned it to the right fide, to give more room for the head to come down. Failing in this last attempt, I rested a little, till another pain should return ; but they being weak and feldom, and finding the pulfation at a fland, I again excrted greater force, by which I at laft got 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 purpose.-Fide cafes iii. and vii. No. i. of this collection.

CASE VI.

GENTLEMAN called on me, when I was engaged with a patient. and defired me to come as foon as possible to his wife's affiftance. giving me to understand, that as the was flepping into bed, the waters had come off without any previous warning. I defired him to fend for the midwife who attended in her former labours. She accordingly was fent for, and arrived just in time to shift the patient and put her to bed, by the time 'I reached the houfe. She told me, that on examining, the found a foor lying in the vagina; but I perceived it was an arm lying double, and I brought the hand through the os externum, to convince the midwife that it was not the part she imagined. Although there had been no labour-pains that the patient thought were worth noticing, yet the parts had been fo dilated before the membranes broke, that I eafily introduced my hand into the uterus, and found the child's head above the offa pubis, the fore part backward, and a little to the left fide. After difentangling the funis umbilicalis, I brought down both legs, but finding I could not bring the feet farther than the lower part of the vagina, 1 flipped a noofe over them, as defetibed in my Treatse of Midwifery; then taking hold of the fillet with DLY

[PART III.

my right-hand, I introduced the other to the head; and pushed 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 children afterward: her belly was fomewhat pendulous; and it was remarkable, that if the membranes broke while fhe lay in bed, the head of the fœtus prefented; but when in a fitting or flanding polition, it flipped over the offa pubis, and the arm came down into the vagina. One lucky circumftance attended thefe, for after the membranes broke, the fhoulder filled up the os uteri fo exactly, that there remained a fufficient quantity of waters, by which the delivery was eafily performed.

C A S E VII.-Vide Table xxxv.

WAS called 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 first tried to raife 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 wo-man not weakened with the length 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 fafest manner. Finding there was still a strong pullation of the arteries in the funis umbilicalis, and being afraid of lofing the child by overfraining the neck, although I had failed with the fhort fraight forceps, as in cafe v. yet 1 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 their use in such cases, for fear of doing more harm than good, by bruifing the parts of the woman when too great force was used.-Vide table xii. and xvii.

The patient being in a supine position in bed, and two assistants supporting her legs, I found the forehead of the child was backward, but a little to the left fide of the lowest 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 supported in that position. 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 with my left hand I infinuated a blade of the forceps up to that part. As I withdrew 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 pubes ; and the convex part was backwards, to fuit the concavity of the facrum.-Vide table xxxv. My left-hand was next introduced up the right fide, betwixt the faerum 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 inftrument with my right, and increasing the force, I brought down the forchead past the narrow part of the pelvis:

pelvis; and turning it backward to the concavity of the facrum, brought the head through the os externum, by pulling upward over the pubes, to prevent a laceration of the perinæum: There was a fmall impression made by the forceps on the fcalp, which disperfed foon after; the child was ftrong and healthy; and although I used a good deal of force; the mother recovered without any uncommon complaints: Since my fuccefs in this cafe, I had another of the fame kind; in which the child was faved by the fame method .- Vide cafe ii: of this collection .- Another occurred in the course 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 erotchet .--Vide collect. xxxv.

CASE VIII:

I WAS called to a woman whofe membranes had broken the night before; the arm prefented, pretty much fwelled, and part of it without the os externum. Finding it was the left, I informed those who were prefent of the circumstances, in order to anticipate all censure in case the child should not be delivered alive: The woman was laid acrofs the bed in a fupine posture, two affistants fupporting her legs, and another on the opposite fide to support her head and shoulders, and prevent any obstruction from hands and arms in time of the operation. With much difficulty I introduced my left-hand betwixt the fivelled arm and the back part of the vagina to the arm-pit; but it still required a good deal of force to raife the fhoulder and head to the left fide of the uterus, fo as to allow room for my hand to pals on the right fide, along the breaft of the foctus, to the fundus, where I found the knees; then hooking my finger in the hams, I brought down the legs into the vagina. As the fore-arm was still in the yagina, I could not fix the noofe over the ankles, but was obliged again to introduce my hand; and by puthing up the fhoulders and pulling down the thighs alternately, I at last, 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 fomentations and cataplasms; but for feveral days it could not move that limb. One of the affiltants 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 supposed therefore this was the cause of the arm being swelled so much when the child was delivered.

CASE IX.

Pro to pe de terretorio.

I WAS called to a woman who was exceffively weak, could fearcely fpeak, and feemed to be in a dying condition. and fee ned to be in a dying condition. The midwife told me apart, that the patient had been in labour 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 for a gentleman famous for the practice of midwifery; that after many efforts, and waiting feveral hours, he told the friends it was abfolutely necessary to take off the arm to make more room for the delivery of the child; that the had greatly affifted in helping him to twist it off from the shoulder, and made a great merit of helping

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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 possible means had been used to separate 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 they were fo importunate, and as there might be a chance of recovery, contrary to all expectation, and confidering, that even though fhe fhould 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 fpite of feveral fuch blunders, I refolved to comply with their requeft.

Having ordered the woman to be put in the fame polition as defcribed in the foregoing cafe, I expected it would require 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 raifed 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 flate 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 news of the child being born, her drooping fpirits revived, and the was able to exprefs her thanks for my relieving her. All prefent were agreeably 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, fhe was for 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 before this incident, when I firft fettled in practice, a woman who had formerly been delivered of feveral children, was taken 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 turning, and bringing the child by the feet; but that being a new method, and not known in the place, the midwife and affiltants oppofed it, and fent for an elder practitioner, who undefervedly had alfo acquired fome reputation in that branch; but inflead of turning, he fatigued himfelf and the woman, by pufhing 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 increased fo much by the former violence; that the patient expired before his arrival; as he knew more of the practice, he regretted much that the method I had proposed was rejected.

CASE

CASEX.

B EING called to a patient, and examining, I found no part of the focus; but after placing her in a fupine polition, and introducing my hand into the vagina, I felt through the integument the haunch-bone and the ribs; infinuating my hand farther into the uterus, I refted a little, and flowly examined the polition, fo as to be able to take the fafeft and eatieft 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 polition to her left fide, and on introducing my hand reached the feet, which were eafily brought down, and the child was delivered. The woman had been two days in labour before 1 was called. She recovered, but the child was dead; as I forgot to examine the funis when the body was brought down, I could not determine whether it was dead before or loft in delivering the head, which required great force in the extraction.

CASE XI.

WAS called to a woman who had been long in labour, and on exa-WAS called to a woman who had been long in labour, and on exa-mining found, that either the fhoulder or haunch prefented. As fhe tay on her left tide, I tried to introduce my hand into the vagina in time of a labour-pain; but on her flying from me, and not keeping in that pofitior, I was obliged to turn her to her back (vide collect. xxv. No. i. cafe i.) pretending that a fupine polition would affift the pains and the deli-The friends prefent informing me of her unmanageable difpofition, very. 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 foctus 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 polition 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 durft not venture to withdraw my hand, left the thould renew her violent efforts against 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 position, I stood 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 ftrongly contracted, 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.

CASE XII,

I ATTENDED 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 position across the bcd, as defcribed in collection xxv. No. i, cafe iii, I by degrees opened the os externum, which, as it was her first child, required fome time, by dilating it a little every pain. At first 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 pushing up the arm and shoulder into the uterus to fearch 3 C 2

for the feet, I found my mistake as to the position, 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 pushed 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 these repeated efforts to force up the body, the placenta had been squeezed and loofened from its adhesion, in the uterus, and a flooding was brought on. Observing 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 ftreagth; but finding the fame difficulty, I defifted from attempting any more to deliver in that position. Having turned her on the bed to her knees and elbows, with her breech high and fhoulders low, and the being fupported by affiftants in this polition, I again introduced my hand, and found the contraction and preffure fo diminished, that I at last, though with a good deal of difficulty, got one of the feet betwixt my fingers, and brought it down to the vagina: By pushing up the body, and pulling down that limb alternately, the child was fafely delivered ; the placenta followed, and the flooding ceafed.

CASE: XIII.

A MIDWIFE fent for me to a woman in labour; fhe told me that the membranes broke foon after her arrival, and fufpecting that neither the head nor breech prefented, fhe had defired the hufband to fend for farther affiftance. As the patient was lying on her fide, I examined, 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 introducing my hand, I found the middle of the back prefented, and that the fhoulders were to the right fide of the uterus. Theie I first tried to raife to the fundus; but as I endeavoured to come at the breech to pull it down from the other fide, the fhoulders returned. Finding, after repeated trials, that this method did not fucceed, I flipped up my hand along the back part to the fundus, were I found the feet; and as I pulled them down, the back turned upward; after which the child was foon and fafely delivered.

I WAS called carly one morning to a woman who had firong labour. The membranes had been broken the night before; although the midwifefound the funis come down, and the child prefenting wrong, yet fhe concealed thefe particulars, pretending that every thing was right, that it muft take a long time to deliver the child; and fhe would not allow any alliftance to be called for until the friends infifted upon having farther advice. When a pain came on I 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 adhesion at the abdomen, and told the friends, that the child prefented in a wrong polition, and was not alive. Hearing

Hearing this declaration, they abufed the midwife, and were about to expel her the houfe, if 1 had not interceded in her behalf, that the might affift the patient after delivery .- Vide collect. xlix. No. 2. - As the patient lay on her left fide, and the parts had been largely dilated, either by the midwife or membranes, before they broke I with great ease introduced my hand, and felt the fore part of the thighs at the left fide of the uterus; and tracing up higher, I got hold of the legs, which I could not then bring down because 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 polition of the child fufficiently; and the patient not being kept properly in the fame position, 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.

CASES XV. and XVI.

S OON after the membranes were broken, I was called to the first 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 pass it fo as to come at the legs, I had the woman laid in the fupine position.—Vide collect. xxv. cafe i.—Wrapping a cloth round the right-hand and fore-arm of the child, that were protruded 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 cloth, and letting go my hold, I pushed up both the breaft and the other arm into the uterus, where I found the head and neek above the pubes, the thighs and legs lying double at the left fide; which last were eafily brought down into the vagina.

After refting a little, I endeavoured to move round the body of the fœtus, by alternately pufhing up the breaft 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 left, 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 the os externum; then taking hold of the ankles with my right-hand to preyent their being over-firained, I raifed the body of the fœtu- higher with my left, and by continuing to pufh up and pull down alternately, the head and fhoulders 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 fhoulder of a feeond child forced or pulled down without the os externum. The arm was not tumified; but as no pulfation could be felt at the wrift, 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 turn the focus and bring down the legs; this method, however, I refolved

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folved to try first; 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 polition, I tried to force up the fhoulder, and was happy to find that, the child being fmall, all the protruded parts returned cafier than could be expected into the uterus; then I brought down the legs and delivered the child, which being alive, I was glad that I had not been obliged to fly to the last refource,

NUMB, II. CASE I.

The children lying with the fuperior parts to the os uteri; the feet and breec^b to the fundus; the waters evacuated, and the uterus contracted in form of a longifh sheath.

WAS called to a woman in labour. The waters were difcharged the day before my arrival. On examining, and finding the head of the child did not present, I had the patient laid in a supine position across her bed; introducing my right hand into the vagina, I felt the shoulder; and in raifing it, observed that the fore parts of the foctus were to the right fide of, the uterus, 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 breast of the child and the right fide of the uterus, I found this laft fo ftrongly contracted, that I was obliged to bring , niy hand lower, and push up the shoulder and head to the left fide, to give more room for my hand and arm; these parts not moving round, I again forced my hand up along the breaft, and by degrees reached the thighs and legs, which were folded double on the belly of the foctus. As my hand began to be cramped, I rested a sittle, and the strength of my arm being fomewhat recovered, I pushed up my hand farther and farther, to make more room for taking hold of the ankles; this I at last accomplished, and brought the feet down to the lower part of the uterus; but the great force which I exerted loofened 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 contraction of the uterus; I was alfo, during the operation, obliged to alter my own polition, from fitting, to kneeling and standing alternately, as I found it necessary. The placenta followed the delivery, and the flooding ceafed; the child was alive, contrary to my expectation, confidering the great force and fqueezing on the breaft and abdomen, before I could bring down the legs. The patient being a ftrong healthy woman, was not funk by the flooding; which was of fervice in relaxing the uterus, and by emptying the veffels, helped to prevent an inflammation.

CASE II.

The right foulder of the child prefenting; the legs against the fore part and fundus uteri; delivery affised by the noose.

I WAS called to a perfon whom I had delivered twice before, whofe pelvis was narrow and difforted. When befpoke to attend a third time, I was under no finall anxiety, on account of the difficulty that attended

rended her labours ; but more fo, when called and examining, I found that the head of the child did not prefent. The membranes had not broken, but in time of a labour-pain were pushed 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, either 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 ftrong pain came on, which broke the membranes, and a very large quantity of waters was difcharged on a fudden, the patient being in a ltanding posture. The nurse 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 most advantageous, on account of the projection of the difforted bones, which would have prevented my hand going up if the had been in the fupine polition. Having feated myfelf a little behind the patient, I introduced my right-hand into the vagina. The shoulder presenting, and the head to the right fide of the uterus, I endeayoured to push up the first, and bring down the last, to present in the natural way; but finding the ftrong contraction of the uterus prevented my raifing the fhoulder fufficiently, and that the flippinels 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 difforted bones prevented the fhoulder coming down to fill up the paffage, and keep up fome of the waters. Finding the contraction of the uterus fo frong, and the ftrainings of the patient fo great, that I could not reach the feet, I caufed her to be turned to her knees and elbows, to prevent farther ftrainings; while the was kept firm in this polition by the allitants, I introduced my hand again, and finding the refiftance lefs, I pufied it up gradually along the fore part of the uterus, where I found one of the legs, which I brought down ; then pushing up the shoulder, and pulling the limb alternately, as in the former case, I extracted it without the os facrum. this time I was pretty much fatigued, and refted a little. The woman complaining of the uneafy polition, I had her again turned to her fide: 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 aterus; by pushing up these, and pulling at the same time the legs down with the noofe, I brought the breech lower, and the head, with the breaft, 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, by bringing the head through the passage of these difforted bones, I moved the patient into the fupine polition, as deferibed in collect. xxv. cafe i. This alteration afforded more liberty to operate with fafety than could be procured in any other. Wrapping a cloth round the child's right leg, I began to pull; and by the affiftance 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, I flipped my right-hand up along the breaft, to feel the position of the head, which was still high, and above the distortion, with the chin to the right fide; but not being able to bring the head or shoulders 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 394

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 flioulders, on each fide of the neck. Having taken a firm hold with both hands; I tried, in a flow and cautious manner, to bring down and extract the head, by increasing the force gradually; moving the face of the child backward and forward, fometimes altering my fingers from the mouth to the fides of the nofe; fometimes quitting again thefe holds, and trying Daventer's method, by prefling down the floulders; 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 fœtus upward, downward, and from fide to fide; I 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 another effort with all my ftrength, 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 used in turning the child had loofened the placenta, and brought on a large difcharge of blood, as in the former case, a circumftance which commonly happens in fuch deliveries. As the after-birth followed 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, because I ftill found a creeping motion in the arteries: After having moved the patient from her uneasy position, and farther up from the foot of the bed, I tried the common methods to affift the recovery of the child. Soon after the infant showed fome weak figns of life, and in about ten or fifteen minutes began to cry, and breathe with more freedom : that which had the greatest effect, was whipping his little breech from time to time, for which I ask pardon of my old friend and preceptor Dr. Nicholls.

· As I fuspected 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 washing, I examined, and perceived a large tumour above the right ear; I likewife found a depression of the temporal bone before the ear, and the frontal and parietal bones pushed outward; these formed the swelling, and were the parts that ftopped at the difforted bones of the vertebræ. On preffing the tumour with my fingers, the child was quiet, but on removing them from the part, the boncs were again pushed out, and the child fell to crying; by repeating the fame experiment more than once, I was convinced that this was the occasion of the complaint. Having applied a thick compress, moistened with oil, vincgar, and spirits, on the tumour, and secured it with a proper bandage, I defired the nurfe, if this was not fufficient, to continue to affift with her hand as before; for I did not choose to bind the head too tight, as fuch fits of crying never happened in my practice, either before or fince. I was glad to fmd 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 use the long forceps, as in No. i. cafe vii. of this collection.

CASE III.

BEING called to a watchman's wife, the midwife told me that the wa-ters had come off in a large quantity, on which the arm was forced down into the birth, and the hand appeared without the external parts; fhe had tried different methods to make the child (as fhe ignorantly imagined) withdraw up its hand into the womb, and change itself into the natural position ; dipping its hand into a bason of cold water, and also in vinegar and brandy ; but finding these trials fail, the had recourse to the last remety, before any assistance from a man-practitioner was thought neceffiry; fhe directed the woman's hufband to take hold of her legs over his thoulders, and lift up her body three times, with her back to his and her head downwards; being of opinion, that although the former methods . failed of fuecets, this would answer 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 foctus were probably to the right fide of the uterus. I promifed to fupport the woman in her lying-in ; and, on this confideration, the gentlemen who then attended me for their instruction in midwifery, were allowed to be prefent at the delivery. Finding I could not keep the patient in a firm position, when on her fide, I had her turned to her back, with her breech to the bed's feet, two of the gentlemen fuffained her legs; her head was fupported by lying in the midwife's lap, the midwife was feated on the boster at the head of the bed, to keep her firm in that polition, and referain her trins; fo as to prevent her hands from puiling at the affiftants or me in time of the operation. As the arm of the child was but little fwelled, I cafily introduced my left-hand below it, into the vagina; then puthing up the shoulder, infinuated my hand betwixt the breast and the right fide of the uterus; but finding, after feveral flrong efforts, that I could neither raife the shoulder higher, nor push my hand sufficiently up to come at the feet, I altered her polition 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 time eramped and wearied, with working in too great a hurry, I was obliged to withdraw both, and reft a little. Confidering that my other hand could not, in this position of the woman, reach the legs of the child, which were at the right fide, I turned her to her knees and elbows, and had her fupported in that pofture by the affiftants on the bed. I then infinuated my right-hand, and gradually firetched the contracted uterus, when I found the feet were turned up to the breech 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 strong, and struggling incessantly, we could not keep her in that pofition; fo that all my efforts to bring them down proved abortive. This hand and arm last introduced being likewise cramped, I was obliged to withdraw them, and I began to despair of succeeding without the affitance of the erotchet; but 1 refolved to make one effort more. Finding we could not keep her fleady in this last position, I had the bed raifed very high at the feet with bolfter and pillows; then fhe was laid again in the fupine polition as at first, her breech being raifed much more, with her head and shoulders very low. My left-hand being now pretty well recovered from the former fatigue, I introduced it as at first, and at last reached up to the fundus uteri; I now brought down one of the legs, and delivered the

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the child, with the affiftance of the noofe, as in the former eafe; but with much lefs difficulty; as this woman had a much larger and better formed pelvis.

The child was alive, the mother recovered, and the placenta being loofened in time of the operation, followed the delivery. She continued weak for three or four weeks, and complained of great pains in the abdomen and neighbouring parts; but having had large difcharges at first, and being carefully attended, and kept in breathing fweats, the loehia and milk were fo promoted, as to prevent, in all appearance, the danger from a violent inflammation of the uterus.

Although I had been called to many fuch difficult cafes, 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 gentlemen who was prefent, being of a delicate confliction, was fo much intimidated, that he refolved never to venture on the practice of midwifery.

$C A S E IV^{2}$.

"THE midwife told me that I had formerly been with the fame woman, who recovered flowly after a tedious labour; that this would prove a more dangerous case, for that the arm of the child came down immediately after the membranes broke, on which there flowed from the womb a large quantity of waters. She also informed me, that as the hand was without the birth, she had folded it up in the vagina, to keep it warm till I should The patient was then lying on her left fide across the bed, with a arrive. pillow betwixt her knees. I moved her breech to the fide; then brought the hand again down out of the vagina, and told her it was the right, to prevent reflections, if that limb fhould prove lame after the delivery. Ihad found fuch 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 accoucheur could not be blamed for over-ftraining the limb; and the misfortune would be imputed to preffure or cold, while the arm lay in that position. Finding by the arm of the child, that its for parts would probably he to the left fide of the uterns, and alfo that the abdomen of the patient was very pendulous, by its hanging more than ufual over the pubes, I perceived that I could operate with greater eafe while fhe lay on her fide, than when lying in a fupine position. I introduced my righthand into the vagina; and in pufning up the shoulder, could diffinguish, that although the pelvis was narrow, the child was not large; that the breaft was forward, but toward the left fide, the head turned back on the fhoulders to the opposite fide. The contraction of the uterus being very great, it would have been impossible to bring down the head to prefent in the natural way; my endeavours for this purpose would have ferved only to fatigne the patient and myfelf with vain labour. My hand being fo far advanced, I pushed it up farther and farther, along the left fide of the uterus, to come at the legs of the child; but the patient's head and fhoulders being too high, this circumstance, joined with the force of the breast and abdominal muscles, in her strainings against me, prevented my hand going up fushciently to reach these parts. Being afraid to bring down my right-hand from the contracted womb, I flipped my left under her left hip, and by the help of the affiliants turned her to her knees and elbows. Vide eafe v. By this method, both the pressure of those parts, and the weight of the child, being much abated, the abdomen funk downward, though at the fame

fame time her thighs and knees kept the belly above the pubes; at laft my hand penetrating to the fundus uteri, took hold of the feet betwixt my fingere; then pulling them down, and puffing up the breat, 1, after a good deal of fatigue, brought the legs without the os externum; I now turned the patient to her back, and with fafety delivered both her and the child, although the bead fluck fome time in the patiage, and both force and caution were required to extract it.

CASE V.

I WAS called to a labourer's wife. Her midwife, on pretence of being feat for to another, had left her foon after the membranes broke, affuring all prefent that the child prefented properly; and the promited to return in time for the delivery ; but on examining, I found both the arms down at the os excernum, and the breaft prefenting at the upper part of the vasina. After e.ery thing neceffary was prepared, I had the patient laid acrofs the bed in a fupine pofition, with her breech high and her fhoulders low. As the pelvis was large, and the arms of the child fmall, I, in time of the labour-pains, firetched the external parts, and introduced my hand into the vagina up to the breaft of the foctus; in raifing this, and examining the fituation, I found the head was call back above the pubes. As the breaft of the child was toward the fagrum, I pushed up my hand betwixt the abdomen and the back part of the uterus, and then went higher and higher in a flow manner; and by intervals firetching the womb, which was ftrongly contracted, I found the thighs, knees, and legs, doubled up to the fundus; but not being able to come at the feet, which were caft forward on the breech, I booked my fore-finger into the hams. The purchase not being fufficient, I let go that hold ; and at last getting one of the feet betwixt my hngers, I brought that leg down to the vagina. This was not effected without a good deal of fatigue, in pulling down the foot, and puthing up the break; but not being able to bring down the other, I was obliged to reft fome minutes, to recover the firength of my hand and arm. H ving procured a left garter from one of the aflitants, I formed it into a noofe, and tried to introduce and fix the ligature round the ankle of the child; but the foot was too high to admit its being applied properly. I was again obliged to introduce my hand into the uterus, and by puffiing up and pulling de wn as before, brought the foot without the os externum; then, with the afliftance of the noofe, I altered the bad position, by railing the head and breaft to the fundus uteri, bringing down the breech of the child 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 room to bring down the other leg. Having wrapped a cloth round both, and find-ing, on extracting the thighs and hips, that the belly of the child was toward the jubes, ' turned them to the facrum. As the body came eafily along, I did not bring down the arms, neither did I introduce my fingers to the face, to turn the forehead into the concavity of the facrum; but by preffing down the shoulders of the fætus, brought the occiput out from below the pubes.

The child lay a long time feemingly dead, but at last recovered. In the mean time, one of the assistants imprudently telling the patient it was dead, the was immediately threwn into convultions, and with difficulty removed from instant death, by applying stimulating things to her nose; and when the retrieved the use of her fenses, the cries of the child contributed greatly to her recovery, 3 D 2 CASE

CASE VI.

HE waters, in this cafe, had been difcharged many hours; the head was at the upper part of the pelvis, and did not advance lower, alwas at the upper part of the pelvis, and did not advance lower, although the pains were strong and frequent; but as the patient grew weaker, and was every now and then attacked with fainting-fits, the midwife appriled the friends of the danger, and defired them to fend for my affiftance. I had the woman fecured in the fame polition as deferibed in the foregoing cafe; and in puffing up the face and head 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 fearch for the feet, the ftrong contraction of the uterus preffed the head with fuch force against the muscles of my arm, as to benumb my fingers, and gave me fo much pain, that I was obliged to withdraw that hand. The patient's polition being altered by her fhrinking from me, I brought her breech again to the fide 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 right-hand into the uterus, and delivered nearly with as great force and fatigue as in the above cafe. As the child, however, was large, I could not bring out the head in that manner, but was obliged to deliver it as in cafe ii.

CASE VII.

EING called one morning early, the midwife informed me that fhe 1 had delivered the patient feveral times, that her labours were foon 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 obstructed by a large excrescence, which she imagined filled up the back part of the paffage. The waters had come off the day before, and the wom n had been in ftrong labour all night. When I first examined 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 another trial in time of the next pain, introducing the first finger of my right-hand farther up, and backward toward the facrum, I found an uncommon foft fubflance, which I felt 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 ftrength being much exhausted, and the child in danger of being lost in this bad polition, 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 efforts in ftraining down against 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 affire the delivery with the forceps; but after waiting fome time, and the labourpains being weak, I at lait, by using a good deal of force, pushed up the head to the fundus uteri. The legs were brought down, and the child delivered as in the former cafe. The face was livid, and exceffively fwelled; but these appearances went off in a few days.

CASE

CASES VIII. and IX.

BEING called to a woman, the midwife informed me that the waters had been coming for twenty-four hours, and although the had tried feveral times to affift the delivery, by pulling at the arms of the child, which were come down before the head, yet the prefenting parts fluck fo fait in the bones (meaning the pelvis) that fhe could not bring them lower; and therefore had, as it was a desperate case, fent for my affistance. On examining, I found both arms come down much fielled, and backs and toward the facrum, with the head advanced a little, in a conical form, at the fore part of the pelvis. Confidering thefe circumftances, obferving the patient greatly exhauted with the length 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, I refolved to deliver, if j offible, in the preternatural method. Having ordered the woman to be laid across her bed, and fecured in the fupine polition, I introduced my hand nito the regina, and pushed up the child's head to the fundus uteri, then the arms returned into the womb. After much fatigue, I brought down the feet from the back part of the uterus, and delivered the infant, as in the former cafe. I did not know, at this time, the method of fixing a noofe on the ankles; therefore the operation was the more tedious, in outbing up the body, and pulling down the legs fufficiently without the os exterium, fo as take a proper hold of them with my other hand. In this operation I was obliged to reft every now and then, and alfo to change my hands feveral times.

The patient recovered ; but from the ignorance and imprusence of the midwife, in not fending fooner for allitance, the helplefs child lay moaning and crying for many hours before it expired ; for by her pulling at the arms, they were fo over-ftrained and tumified, as to bring on a mortification of these parts.

In the other cafe I was certain, as well as in the preceding, that the child was alive, by feeling a ftrong pulfation in the veffels of the umbilic. I cord, which lay in feveral folds at the left fide of the pelvis. The midwife informed me that the had felt the fame motion immediately after the nombranes broke; that the head of the child, although a large quantity of waters had been difcharged, ftill kept high; and that being afraid, if the Jabour was tedious, the child would be lofe, the had defired the friends to have recourfe to my affiftance, more cipecially as the woman's former labours were commonly tedious, though fafe. As the patient was then lying in bed, on her left fide, and kept fleady in that pefition, I introduced my right-hand into the vagina, and examining the polition of the child's head, found that the vertex prefented, with the fouranelle to the fame fide of the pelvis, where the funis was come down. After this enquiry, I pulned up the head, and tried to flip and pafs the cord above it, to prevent the preffure and obstruction of the umbilical vessels, out finding, as I pushed up the different folds of the funis, they again returned alternately, and cluded all my endeavours to raife them fo as to remain above the forehead and face of the child, I had recourfe to another method; I introduced my hand into the uterus, and delivered in the preternatural way, as defcribed in cafes vi. and vii. of this collection. When the head is not uncommonly large, nor the pelvis narrow, this method of delivery feems not advifeable to fave the life of the child; for unless a very finall part of the funis is come down. it feldom can be flipped up to high as to prevent the preffure of the head, and obstruction of the circulating fluids in the umbilical vessels.

CASEX.

THE patient I had formerly delivered twice of dead children; her pelvis was narrow, and difforted at the upper part of the facrum. She had both times been long in labour, and much exhaulted before the friends defired my affitance. The heads of both foctules were foucezed down of a great length, and fo engaged in the pelvis, that the could not be delivered with the allitance of the hilet in time of the weak pains. As the waters had been long difcharged, and the uterus was floregly contracted, it was impoffibile to puth up the heads fo as to apply the fillets to advantage, or to turn the children, to as to deliver them in the preternatural method; but at laft, after waiting a confidenable time, I had been obliged to open the heads with the feiffus, and extract with the affiftance of the blunt-book. *Vide* col. xxxi. cafe viii.—As it required a confiderable force to deliver, after the heads were diminifhed by the large difcharge of the contents, I queffion much, though I had then known the ufe of the forceps, if I could have faved them with th t inffrument; for I can very well remember the fatigue I endured at thefe two labours.

As a ridiculous opinion prevails among the vulgar, that there are certain remedies to procure barrennefs, and indeed fuch defcribed by many of the oldeft authors, the woman's hufband, and fome of their hiends, called on me foon after the fecond delivery, and begged I would preferibe fome medicines of that nature. I acknowledged my ignorance of the effects of any fuch medicines, and defired them not to throw away money in going about to any falfe pretenders to fuch fecreis, but to fend iter me at the beginning of the labour, if his wife floold again prove with child. My advice was taken, and I was called accordingly; but before I arrived, the membranes were broken, and molt of the waters discharged. On examining, I found the head of the child refting above the pubes; not, as in the former cafes, . forced down into the pelvis. Although it required much force to deliver the body and head in the preternatural way, yet this being fmaller than any of the former children, it was happily faved; but I neglected, at this time, to examine if all the limbs were found. The father calling on me about three months after, told me the child had not the power of her left arm. Some weeks after this vifit, happening to be in that part of the country, I found the fhoulder had been diflocated in time of delivery, and endeavoured in vain to reduce it.

I was again called a fourth time to deliver the fame patient. I turned and brought this child the preternatural way; but it being much larger than the laft, was loft by being obliged to tear down the head with the fharp crotchet. After I fettled in London, a gentleman who fucceeded me in that branch of bufinels, wrote me that he had delivered the fame patient, but that he could not poffibly fave the child. The faid woman was delivered of her laft-child in the fame manner 1 had chofen the delivery of the two fift children.

CASE XI.

AND REAL PROPERTY.

HE woman had been delivered of her first child by another practitioner, who was obliged to open the head of the focus, and extract it with the affistance of the erotchet. When the was in labour of her fecond child, and only gone feven menths, I was called, and as the arm prefented, delivered and faved the focus, by bringing down the legs, and extracting the body and head in the preternatural method. In her next pregnancy, th wen

went on to her full time of reckoning. Being ealled to her fome hours after labour had come on, I found the os uteri largely open, the membranes broken, and the head of the child prefented. As the was then in bed, and lying on her left fide, I had her turned to the right, that the uterus might be more in the middle, and give the fœtus a flraighter polition, to be forced along with the labour-pains; but the head did not advance. Confidering that the first was loft by waiting for the natural delivery, that the fecond was faved by the preternatural method, and as this, by the touch of the head, felt fmall, I thought it fafer to turn, apprehenfive that the patient being weak, and of a confumptive conflictution, the would not have ftrength to force along the head through fuch a difforted pelvis.

Finding that this polition was unealy 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 foctus to the right fide, without being able to reach them in that polition, I was obliged, by the aid of the affiliants, to place her on her knees and elbows, according to Daventer's method. The narrow pelvis cramped the mufcles of my arm fo much, that with difficulty I got my hand fo high as to bring down the legs; then I turned the patient to the fupine polition. The woman having been much fatigued, I gave her a cup of warm wine, with ten drops of tinct. thebaic; but a flooding coming on, I was obliged to deliver the child immediately ; being larger than I expected, it was lost in extracting the head. The force exerted in turning the child had difengaged the placenta, which was the occasion of the flooding. The pelvis was fo narrow, that although I used all the precautions described in the former eases 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 difficulty, I was forry, on reflection, that I had hazarded this method in fo weak a patient ; I withed I had rather waited the efforts of nature; and if these had proved infufficient, that I had afed the forceps, when the head came low down in the pelvis; or at leaft, if all her efforts had been infufficient to render that affiltance practicable, that I had delivered the child as in her first pregnancy,

CASE XII.

By Mr. Aires, of Boston.

HE woman was attacked with eolie pains and convultion fits. He 1 was obliged to bring the child footling, from its prefenting with the arm ; this he eafily effected, till it was extracted to the fhoulders, where it fluck pretty much, and gave him great trouble in bringing down the arms. Then he tried, with his fingers in the mouth, to deliver the head, by pulling it upward toward the pubes; but finding a great refiftance, and pufhing his fingers farther up, he found the placenta down in the back part of the pelvis; which last being very strait, had forced the head so against the pubes, that it refifted all the force he durit apply. He then introduced a finger between the head and that bone, to difengage it; but it answering no purpofe, he feated himfelf on the floor of the room, and ordering the woman's breech to be brought a little over the fide of the bed (the lying in a fupine polition) he delivered the head by pulling the body of the child downward. The child was dead, and, luckily for the woman, finall in fize; fo that flie recovered very well. CASE

[PART III.

CASE XIII. and Supplement to CASE III.

From Dr. Durban .--- Vide Collect. xxxiii. Nº ii.

TWAS called to Mrs. S. a well-made woman about 35, who had feveral L children. I found with her two midwives, who acquainted me that the waters had been come away about eight hours. Her pains were ftrong and quick. Upon touching her, I found a hand prefenting in the vagina. While endeavouring to diffinguifh which hand it was, it protruded through the os externum to the elbow. This was the first case that offered to me in this country; and as I was apprehenfive the head might perplex me if I delivered footling, I endeavoured to return the limb, and facilitate the natural delivery of the infant. The limb could be returned into the vagina only, whence it often protruded. The contraction of the uterus was too flrong to admit my changing the polition of the child, by forcing up. My hands became cramped, I was obliged to quit that attempt; but during thefe endeavours, I difcovered that the fhoulder and back prefented, with the head lying to the left ilium. After refreshing my woman with cordials of her own, and encouragements, while I refted my hands, 1 fearched for the feet, which were 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 w them just without the os externum, I wrapped a piece of fine cloth about them, and held them gently, drawing with one hand, while I endeavoured to allift the polition of the face with the other flipped up along the fternum. I found fome confiderable refistance push up the hips a little, and gave the quarter-turn. 1 then proceeded, and delivered the infant, with a turn of the umbil cal cord about its neck; this I divided inftantly, and extracted the placenta. After refting a little while from her fatigue, my patient was put to bed; the child lived about half an hour.

CASE XIV. and Supplement to CASE III. In a letter from Mr. Mudge, Plymouth.

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H E was fent for to a woman who had been four days in labour, and the waters had paffed off three days before. 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 mouth of the uterus; it was extremely fwelled, and quite black with the violence it had fuffered for three days fucceffively, by the rude pretended affiftance of the midwife. The cord came down by the fide of the arm, the pulfation of which was evident enough.

He without great difficulty (the pains being luckily ahfent) pufhed up the breaft of the child, introduced his arm quite 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 wine. 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 111, relates a cafe, in which the arm was taken off; the child was alive, and lived to be a man. CASE XV. and Supplement to CASE IV.

In a letter from Mr. Mudge, of Plymouth ; with an anfaver.

H E was called to a patient an hour after the membranes were broken She had fome flight pains; but he could not, in examining, reach any part of the child. After the had been two days in a lingering way, he at last felt fome part presenting like the nates. She had not felt the child ftir for many hours, and the meconium began to come off; although the pains gradually increased, yet the child did not advance. The patient's ftrength failing, he laid her acrofs the bed, and introducing his hand into the vagina, found that the right shoulder prefented, with part of the arm, not fallen down into the paffage, but lying across the os uteri. He then in-finuated his hand into the uterus, along the belly of the foctus, 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 flipping. A flooding coming on from the great force uled in trying to bring down the other leg, which, with the breech, hung over the pubes from the abdomen, being very pendulous, he changed hands, the right being exceffively fatigued, and endeavoured 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 puflied up the fboulder with great force, while he tried at the fame time to pull down the leg that was in the passage.

All this time the woman was bleeding exceffively, and he was afraid every moment that the would die under his hands. He then fent for the largest fized forceps that is used in extracting the stone, and laid hold of the leg with them; but after feveral fruitlefs attempts could not move the child. He was almost fatigued to death, and in the greatest anxiety of mind to think he should see his patient die under his hands. He determined to make one final attempt to come at the right leg; he introduced his hand and arm into the uterus, and pushing still higher and higher, he at last got his arm 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 hold of the foot, which he immediately grafped and brought down to the passage. The buttocks following, he foon delivered the child, which was very large and dead. The placenta was foon delivered; the flooding flopped at once, and the mother did well.

The answer to the foregoing 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 position, and you come at the legs easiest when they are toward the back part or fides of the uterus; but when at the fore part you find them better, by having the patient lying on her fide; becaufe then you can fland behind, and your arm is not interrupted by the pubes fo much as when in a fupine polition. I have also of late found, where the belly has been very pendulous, and I could not reach the feet eafily in the fide position, that by turning the woman to her knees and clbows, I came much readier to the feet, as that position takes off the great pressure of the uterus and child. This was Daventer's method; and to confirm you in this practice, I fend you a paragraph

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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 most material things which he had found in his practice that might be of use to the public.

The following, I own, has been of use to myself; having oftener used his method fince than formerly, especially where the abdomen is pendulous, as your cafe was:—He writes, that one of the principal things to be known in midwifery, is the position 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 easier with your hand downward than you can do with it upward, when s laid on her back; besides the weight of the child affists you when you push the body back, in order to get hold of the feet. He fays he always found this the best posture, until the feet are defeended to the os externum; when he turns the mother to her back and delivers her.

CASE XIV.

In a letter from Mr. J-, dated P-

HE was called in by another practitioner, where the chin had prefented. The first had feveral times tried to deliver with the forceps, and broke the lower 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 strength being quite ex-hausted, the other was called. The woman's strength was almost gone. He introduced his hand into the uterus, and after great fatigue and fweating, he got hold of the other foot; over which he fixed a noofe, which he twifted round one hand, 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-turn the obstruction was removed and at last the head was delivered, though not without a good deal of trouble and caution; on account of the largeness 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, acted 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 head as it prefented, and extracted with the crotchet. However, it is impoffible to judge. 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 then to the beft of our judgment.

CASE XVII. and Supplement to CASE II. By Dr. G. of L.---Vide Collect. xxxv. Cafes xxi. and xxii.

H E woman was about thirty; had been rickety in her youth, one fhoulder was higher than the other; one of the offa pubis was confiderably farther protruded than the other. Before he was called the had been three days in labour. The mouth of the womb was largely open. The head 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 meconium; whence he told the by-flanders; that the child was either dead or very weakly. On enquiry, he was told that there had been no ftoppage of urine. The polition being fuch as favoured the use of the forceps for extracting the child, he introduced it accordingly, not doubting to find an eafy delivery, as he had often feen and experienced with the help of that infrument; 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 diffention of the bladder had hindered the head from advancing, he again tried the forceps, 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 almost 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 those cases, brought the child footling; and although I had fometimes fucceeded, yet in others; I could have wished, after the head was turned up into the uterus, that it were still in its first place; because when the body was delivered, the head fluck to 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, the 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 eafily introduce his hand, I thought it was right to try that method to fave the child's life.

CASE XVIII.

From Mr. J. Gibson, Surgeon, in Harwich.

T WAS called to a young gentlewoman of a delicate conflitution, in labour of her first 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 fcarce room to introduce two fingers; but with my first, I felt the arm much fwelled, and far advanced in the vagina in a doubled form, the fore-arm being reflected upward. The os externum felt thick; but lax and yielding. Being fatiffied in these particulars. I could with great certainty foretell the difficulty that would attend the delivery; which I at last 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 fleady in bed: I first began to lubricate and dilate the parts gently; by which means, in about half an hour, I made room for the admittion of my hand, which I introduced in a flattened form to the biim of the pelvis, which I felt narrower than ufual, occasioned by the last vertebra of the loins and upper part of the facrum being too near the offa pubis. I found alfo the top of the fhoulder of the child entering the brim of the pelvis, the breaft toward the facrum, the head over the pubes, and the

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the feet at the fundus uteri. I endeavoured to raife the prefenting parts, and bring down the legs; but the drynefs and ftrong contraction of the womb, which, together with the pains, now acted forcibly against me, foon convinced me that it was impossible even to move them an inch. This method not fucceeding, I pushed up my hand, by which I firetched 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 rested a while; in which interval the patient was feized with a deliquium, which took off the pains and contraction, fo as to give more liberty to take hold of one leg, which I 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 shoved up with that in the womb; and by these means turned the head and fhoulder to the fundus uteri; the leg was brought through the os externum, and the thigh into the vagina. Having fucceeded fo far, I withe drew my hand from the womb, and affifted 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 shoulders 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.

ANY STRUCTURE, MENTIORIZED PARTICULATION OF THE PARTICULATION AND ANTICLES AND

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Preternatural cafes, wherein the women were delivered by the affistance of the crotchet.

[Vide Part i. Book iii. Chap. iv. Sect. v. No. i. alfo Tab. xxxv. and xxxvi.

CASE I .- Vide Collect. xxxii. Cafe i.

MIDWIFE who was attending a woman in the country, found as the imagined, after the membranes were broken, that inftcad I of the head one of the arms was pushed down into the vagina, and acquainting the friends with this circumflance, they immediately fent for me. I found, when I examined, that instead of an arm there were two lcgs lying double in the vagina, and the knecs prefenting; at first 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 finger, I felt the other; I diffinguished the knees by their having a more obtufe feel than the clbows; and bringing one of them through the os externum, was much better pleafed to find it was a foot. Having placed the woman in a fupine position, I brought down the other leg; and having wrapped a cloth round the feet, I pulled the child gently along. As it was one of the first cafes of this kind which I had feen, I had not the precaution

to introduce my hand to feel, before I brought down the body, whether the head was low down or up toward the fundus; for after I had brought the breech down to the os externum, and turned the back part of it from the right fide of the pelvis to the pubes, I could not bring the body lower down than to the finall of the back. Finding, after reiterated trials, that it would not move farther, I pushed up the fingers of my right-hand along the belly of the child, and found the head folded down on the breast at the fide, and both fqueezed together in the pelvis. I tried to push up the body and my hand farther to raife the head; but the body filling up the pelvis, and the head and breaft being fqueezed together by the former force in pulling down, I could not, after feveral trials, alter the polition. I was then obliged to pull down the body with greater force, till I found, after repeated trials, that the vertebræ of the loins were fo over-strained it was impossible to fave the child. I then introduced the crotchet up betwixt the head and the breast, and fixed it on the middle of the sternum, as I afterwards observed, pulling the inftrument with my right-hand, and the body of the child withthe left, I endeavoured to extract. Finding the parts tear down, and that the shoulders did not advance, I pushed the crotchet farther up, and got a firm hold above one of the clavicles, which brought doan the fhoulders, and the head followed with little difficulty, the child being fmall. This was a caution to me in the fequel, to examine the position of the head before I brought the breech into the passage, that I might raise it, fo as to prevent any fuch obstruction.

CASE II.

D EING called to a midwife in the morning, I was told that the mem-B branes had broken about eleven at night, that the breech prefented; and though the pains had been strong, yet it had not advanced in the least for two or three hours, notwithstanding 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 the lay on her fide, to help along the breech, 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 peffibly bring them down, the preffure of the breech, which I could not raife higher than the brim of the pelvis, joined with the narrownels of the fame, fo preffed and pained the muscles at the fore part of my arm, that I was obliged to withdraw it two or three times. These attempts proving abortive, I turned her to her knees and elbows, and introduced my left-hand as the most proper when in that polition, and the legs to the left fide. The breech receded farther, and my arm was not fo much confined; but the contraction of the uterus was fo great at the fundus, that I could not possibly bring down the legs, although I refled feveral times, to keep up the firength of my hand and arm; at last they were fo fatigued and cramped, that I was obliged to defift. Being afraid of tearing the uterus from the vagina, I altered her from this pofition to her back, keeping her floulders high, and tried again in time of a pain, to help the breech along, as at first, but to no purpose. I then had her breech raifed with pillows, and her head and thoulders laid lower ; then I pushed up my right-hand that was a little recovered from the former fatigue, but failed in this alfo, after feyeral ft.ong efforts.

I was now fo wearied, that I was obliged to reft, and confider what was next to be dones The child, I found by these trials, was large, and the pelvis difforted at the upper part of the facrum ; and indeed the projection of thefe bones had bruifed and hurt the back part of my hand at the laft trial. By these feveral endedvours, the placenta, I suppose, being p rtly loofened 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; but finding this was to no purpofe, I introduced the curve of one of the handles of the forceps on the outfide (they were not then altered from crooks to wooden handles as now) betwixt one of the thighs and the abdomen of the child. When I found the point fufficiently through betwixt the thighs, I introduced two fingers of my left-hand to the groin of the oppofite hip; then pulled with that hand, and the blade of the forceps with the other; but still 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 moved the breech to the lower part of the pelvis, and the hams below 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 foctus to the back part of the uterus, I brought down the body, and tried to deliver the head as defcribed in the cafes of collect. xxxii. where the legs or breech prefent; but all thefe different methods failing; I tried first to deliver the head with the short forceps; but they slipping 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 firetched to a confiderable length, 1 directed an affiftant to hold up the body 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 pushed 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 strait crotchet (for I had not then contrived the curved crotchet, which is principally useful in this cafe) the point did not take fufficient hold, or go fufficiently up to fix in the skull, but slipped 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 the crotchet along the right temple, above the fore part of the ear, where at last with fome difficulty I fixed the point. I now brought down my left-hand, took hold of the crotchet with it, laid the body 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, I began to pull down the head; and gradually increased the force. Finding the crotchet had a fufficient hold, and did not flip as before, and that the head did not yet begin to move, I ftood up and pulled the body and crotchet upward to the pubes with great force; which brought down the forehead to the lower part of the pelvis, at the right fide of the facrum and os coccygis; then turning it more backward, I delivered the head, by bringing it with a turn upward from below the pubes, where it. turned

turned as upon an axis, and prevented the laceration of the perinæum and parts below, which at that time were stretched in form of a large tumour. I examined the child's head, and found the skull was tore open about two inches at the above-mentioned place, and fome of the cerebrum had been evacuated in time of pulling ; a circumstance which diminished a little the fize of the head. When I was first called, I defired the midwite to allow, my pupils to be prefent; a propofal to which fhe and the woman affented, but restricted the number to four, on condition that I should deliver her without 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 fweated exceffively.

THE woman was young and flrong. This was her first child; the mem-branes broke the day before the bad day branes broke the day before; fne had strong pains all night. When I arrived in the morning, 1 found the shoulder forced down to the lower part of the pelvis. Having placed her in a fupine polition, with her breech high and her head and fhoulders low, I was obliged, after dilating the os externum flowly, to use 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 parts to the back part of the uterus. The polition being known, I tried to push 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 I could not poffibly reach 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 engaged at the right fide, that I could not pof-fibly gain admittance. I again tried with my right, and repeated one effort after another, changing hands, and altering the polition of the patient, till I was at last excessively fatigued, and obliged to defist. I rested about half an hour, confidering what I fhould do next, and waiting until I should recover the use of my arms.

By thefe efforts, and the exertion of great force, a confiderable flooding was brought on; and this alarmed me not a little, especially as it was one of my first cafes, and I had not yet attained that calm, steady, and deliberate method of proceeding, which is to be acquired only by practice and experience. I had over-fatigued myfelf, from a falfe ambition that infpires the generality of young practitioners, to perform their operations in the most expeditious manner. Finding I could not reach the legs, I infinuated my right-hand up to the left fide of the child, and along that introduced a crotchet with my left above the ribs: there this inftrument being firmly fixed, I withdrew my right; then taking a firm hold of the crotchet with that hand, I pulled down the fide while I pushed up the fhoulder with my left. By these means, after repeated trials, and using 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 woman was not at all lacerated or hurt. When I examined the child, I found the crotchet had fixed first on the left fide of the belly, which it had tore open, as well as the falfe ribs; fo that most of the contents were evacuated, and the body was allowed to pass along double. One mistake I made at first fatigued me much before I was aware : my hand had run up on the outfide of the membranes.

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CASE IV.

THE midwife told me, that when the was called the membranes wert broken, and the hand lay in the vagina. A gentleman in tha neighbourhood had been ealled, and attempted delivery; but hearing I was fent for, he took hotfe and rode off, being the famethat was concerned in the cafe deferibed col, xxxiv. N° i. cafe vii. I found the arm, thoulder, neck, and part of the ribs, pulled without the os externum. When I enquired of the midwife, if these parts were forced down in that manner by the pains? She faid that before the other practitioner eame, the pains had putted 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 child, the affifted him in pulling at the arm with great force, but could not 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, infpected the parts, becaufe I could find no fundament, and thowed her that the vagina and rectum were tore into onc. The arm, though not much fwelled, was livid, as well as the other parts of the fœtus that appeared externally; for it had lain in that manner three or four, hours at leaft from the time I was fent for. I never expose the parts of my patients except on fuch extraordinary oceasions, when it is neceffary to observe whether any harm has been done.

After I had endeavoured, without fuecefs, to pufh up thefe parts into the uterus, first by placing the woman in the fupine position, and afterwards on her knees and elbows, I was obliged to introduce 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 digested, and she with difficulty recovered. About two months after delivery, being in that part of the country, I called at her house; and contrary to what I had observed in al other cafes of fuch large lacerations, in which the parts are commonly fo weak as not to be able to retain the faces, the parts in her were fo contracted, and the passage was become fo narrow, that the voided them with great difficulty.—Vide collect. xl.

CASEV.

HE midwife called on me, and begged I would preferibe fome medi-cine to promote the delivery of a woman whom the had attended two days; the faid the membranes had broken foon after the went thither, and one of the arms coming down, was pushed without the parts; but she had kept it warm. I told her the woman should 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, much fwelled. The woman was little, not young, and this the first child. I tried several times to push up the arm and shoulder of the foetus, but was prevented by the largeness of the arm and fmallness of the pelvis. I attempted to bend the arm (which was the right) to as to fold it up into the vagina, that I might push it up before my hand; but the fwelling was fo great at the elbow, that I could not bend it. I then pulled and twifted round the arm, and endeavoured to feparate it from the shoulder, but could not with all my foree. I pushed up the fingers of my left-hand to the arm-pit, and tried to fnip through he fkin and ligament; but it lay fo high, and was thrown fo much forwards.

wards by the difforted parts at the brim of the pelvis, that I could not get up my fingers or feiffars fufficiently to that part. I wrapped the fore arm in a cloth, and pulled and twifted it with great force, fo that at last it feparated at the elbow. I was forry for this incident, apprehending there was lefs hope of pulling off the arm when the firm hold of the fore arm was loft; however, contrary to expectation, I found the fame advantage as if it had been pulled from the shoulder; for the arm being short, easily folded up in the vagina; to the fide of the foctus. I now gave both the woman and myself some respite, that we might recover from fatigue. Having refumed my labour, the arm and fhoulder were pushed up into the uterus. Then I felt at leifure the polition of the child. The head folded back betwixt the fhoulders above the pubes; the left arm and leg lying over the breast, and to the fide and back part of the uterus: I now repeated my efforts, and by pushing up higher, got a firm hold of that foot be twixt two of my fingers; pulling down this and pushing up the break; 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 pulled 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 narrowners of the pelvis. Endeavouring to pull the left leg and thigh, fo as to bring the hips lower, after reiterated efforts, and increasing the force every time, instead of bringing the body lower, I pulled the thigh from the hip. I was obliged to reit again, to recover from this fecoad fatigue. I again introduced my right-hand into the uterus, and with great difficulty brought down the right leg; but the pelvis being too narrow to allow paffage for the body, which was large, I had recourse to the crotchet, with which I tore open the belly. I was obliged to use the fame method in tearing open the breast, to bring down the fhoulders and the arms; and afterwards to reft a confiderable time to recover my ftrength, which was almost exhausted, before I attempted to deliver the head, which I was certain would require still a greater force: Finding the face and forehead were to the left fide, and a little forward toward the left groin, after getting an affiftant to hold up the body of the child, I infinuated my right-hand at the left fide of the facrum, and introduced a crotchet in the fame cautious manner as defcribed in the fecond cafe of this collection, along at the left fide of the bones that were difforted, and formed a large hollow at that part, which allowed room for the inftrument to pafs eafily. Having now altered my erotchet from the ftraight to the eurved form, the point went higher up, and fixed near the vertex. Bringing down my right-hand, I pulled gently at first, till I found it was firmly fixed; I then began to extract with greater force, while at the fame time I pulled the body with my other hand. B∳ reiterating these efforts, I got the head at last delivered, but not before L changed hands, and was obliged to pull the crotchet with my left, which brought the forehead from the left groin, backward to the fide of the facrum. The crotchet had tore all the left bregnta down to the temple; a laceration which allo ed a large part of the cerebrum to evacuate, and the bones of the cranium to collapse. The great force used in turning the foetus had brought on a flooding, which diminished on the delivery of the child and placenta; part of the laft; however; adhered fo firmly to the right fide of the fundus uteri, that I was obliged to separate it with the fingers of my left hand. As the woman complained of great pain, and her pulle was a little funk from the large discharge, I ordered an anodyne mixture, with 20 drops of laud. liq. and half an ounce of fyr. e meconio, which had the defired

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defired effect, by procuring reft; and a plentiful perfpiration; and although the weaknefs and pains continued for many days, yet the recovered.

About two years after I was again fent for ; but being engaged, another gentleman was called, who told me that he was obliged to open the head, and was vaftly fatigued in extracting both it and the body; this violence threw the woman into a violent fever 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 fhift, 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.

CASE VI:

THERE had been two midwives with this woman for two days; one of those was her mother. Both arms had been down most of that time, and these they had often pulled to bring the child as it presented. I found both arms pretty much swelled, and one was almost pulled from the shoulder; for it only hung by part of the skin, which I snipped off with the feislars. I inspected the part, and found the remaining arm and parts of the woman livid, but not tore. The patient was then flooding, and had lost a great deal of blood; from which, joined with the long fatigue of labour, her strength was so exhausted, that she appeared in a dying condition. I suggested my apprehension to the husband and friends; who begged me, if possible, to deliver her before the expired. Contrary to my expectation, although the breast was pulled low down, I easily pushed it and the arm up into the uterus, and brought the child footling. I had no hopes of her recovery, although the feemed to revive a little, from the joy of being delivered; because I was pretty certain that a mortification was begun, from the livid appearance 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 loose in the uterus. This was not her furth child. I was called in the evening, and the lived till next morning.

CASE VII.

The child delivered piece-meals

ONE of the arms had defcended, and been fo pulled by the midwife, 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 polition above 24 hours; but I could not introduce my hand. Confidering that the child was probably dead from its being fo long in that ituation, and its not being felt to move by the mother for many hours, I thought it was most expedient to feparate the arm from the fhoulder. This last being low down, I guided the points of the feisfars to it, and easily feparated the arm; partly by cutting the fkin and ligaments, and partly by pulling and twifting. In pushing up the fhoulder into the uterus, I found that the pelvis was fmall and the child large. I brought down only one of the legs; which was pulled off, as in cafe 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 even to fix the fame inftrument on the head. Being the ftraight kind, it flipped feveral times, and hurt the infide of my

left-hand in two places, while I guided the point from hurring the vagina of the patient. At last, gaining a firmer hold above the car, 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 shoulders, and pulled at them with so great force, as almost to separate the head. By these means the head was brought a little lower, yet not daring to exert again fuch violence at the body, I pulled by the crotchet, which brought the head down to the os externum; and in raisingthe body and pulling it upward, it at last separated. The head, however, being brought low, I took hold of the under jaw; and pulling at that, while I e .. crtcd more force at the crotchet, the head was alfo delivered. The woman behaved with great courage, although the had been 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, contrary to every body's expectation.

CASE. VIII.

The woman died before the os uteri could be fufficiently dilated.

THE midwife told me, that when the was called, the membranes were broken: and although the mouth of the mouth broken; and although the mouth of the womb was very little open, the found that the child did not prefent fair. A gentleman was fent for, but he being 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 pufh down the prefenting parts to open the os uteri, he tried to ftretch 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 desired 1 would come about seven. 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 fill pretty good, and not much funk. Confidering that the pains were now weak, and could do little fervice in pushing down the child to ftretch the os uteri; being alfo afraid-that the woman would grow weaker and wcaker, and having never before failed in ftretching 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 position ; but as that and the supine 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 my fingers up to the middle of the third joint; but I could not firetch it fo as to introduce my hand. I then refted, and felt more exactly the position of the child. The breaft and neck prefented, 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 polition, and introducing the fingers of my left hand, with great difficulty got two of them above the chin into the mouth, and tried to pull it from the fide into the middle of the pelvis ; but the neck and breaft were fo engaged in the middle, and the head preffed back on the poulders, that I could not poffibly alter the pofition. Being now certain that

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that the child was dead, I introduced a crotchet, covered with the fheath, along the infide of my left-hand, and fixed it, when unfheathed, in the under jaw. Finding, however, that it would tear down the jaw, and not bring in the face, I withdrew the infirument. The funis all this time was a great interruption, by falling down and entangling my fingers. I again gave the woman fome respite, especially as the was now growing a little faint, and the flooding, which had abated, was returned.

After fhe was recruited, I tried again to dilate the os uteri, having found in other cafes that it dilated eafily when the patient were faint and weak, but found the faine difficulty as before, I once more endeavoured to introduce the crotchet at the other fide, to come at the fhoulder, in order to try if the pulling down of the parts would firetch the os uteri better than puffing up. I was apprehenfive of ufing any gre ter force by puffing up, left I fhould tear the uterus from the vagina ; but finding that I could not fix the crotchet to advantage, I again with drew it. All this time the os uteri felt as if it was two inches thick. The woman being much exhaufted, I had her laid in an eafter pofition, and let her lay a confiderable time, both to recruit her fpirits, and fee if the pains would return. In the mean time I fent for Mr. Burnet, who was first called ; who being now difengaged, came immediately. He alfo endeavoured to introduce his hand ; but finding it impossible, we all agreed to defist, and to wait, as the flooding was abated ; for although the had loft a good deal of blood, yet it had been very gradually difcharged.

Our intention was to fupport her with broths, and nourifhing things, and as the inclined to fleep, to indulge her with fome repote. Mean while we went to breakfait at a coffee-houle, where we propoled to wait the iffue of this uncommon cafe. I released, it happily the fhould recruit after fome reft, and recover from the low faintifh flate in which we left her, to try again in a gentle manner to firstch the os uteri; and if that did not fucceed, to dilate it with the feiflars, as in the 10th and 16th cafes of this collection. In about half an hour, one of the pupils being fent to fee how the patient refled, was met by the hufband coming in a great hurry, to acquaint us that his wife had fallen into convultions. Before we reached the houfe, fhe had expired; a circumflance which furprized us not a little, I indeed was in hope when we left her, that fhe would have enjoyed fome fleep, which might have recruited her ftrength, and then the os uteri would probably have yielded, as I had found in the like cafes before. I had even in a few cafes, known the os uteri tear, ind the patient recover.

Rather than let the woman expire without any chance of being delivered. Thid determined to dilate the os interpum. This experiment, however, I think thould never be attempted, but in the laft extremity. I reflected attenthit foldern change, as the flooding was not violent, and the woman at first not fo very weak, whether it would not have been better practice to have waited longer for the efforts of nature to open the parts.

This cafe ought to be a caution to all practitioners, to wait the efforts of nature, and not to use too reat violence in flictching the os uteri, especially when the patient is not in absolute danger. On the other hand, if these efforts had not been made till the woman was weak, I should have thought we were too long in affisting; especially as I never met with a cafe of this kind before, where I did not celiver the patient. The membranes had broken the evening before, and the midwife, by an uncommon feel of the parts that prefented, sufficient the focus prefented wrong. Mr. Burner, who had the care of the poor of the parish, when called, was not at home. She was in ftrong labour most of the night, but had not force to push down the child in that double position to open the os internum. When the first pupil arrived at fix, the pains became weaker, and a finall flooding had begun. All these circumstances confidered, seemed to indicate the practice we followed preferable to delay, especially as we did not expect that the patient would have been carried off in so fudden a manner.

CASE IX.

H 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 fent for me. The membranes of the fecond had broken immediately after the first was delivered. Finding the face prefented, and having put the patient in a fupine posture, I allowed all prefent to examine the position. Then, as the waters were not all gone, I very easily turned the head up to the fundus, and brought down the legs. 1 observed, that the child had been dead many days, from the circumstances of the legs being livid, and most of the fcarf-skin stripped 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 obstruction proceeded from the abdomen being excellively fwelled, and turned to the back part of the uterus. I again pulled the legs with greater force; but began to be afraid they would feparate from the body. I introduced the fingers of my left-hand to the fwelled abdomen, and along that the fciffars with my right, and pushed them into the abdo-men of the fœtus, just above its pubes. Withdrawing the fciffars, 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 obliged to increase the force, all on a sudden, and unexpectedly, the hips separated 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 on the ribs, I began to pull; but the hold gave way. I made feveral attempts in the fame manner, fixing the crotchet higher and higher, 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 flippy, 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 mei 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 took, hold of the vertebræ of the back. By thefe holds I brought down the body, 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 tumefaction of the abdomen ; but I pulled at the legs with more caution, for fear of the fame accident, and brought down the body with the blunt-hook or crotchet.

CASE

C A S E X.

HE midwife informed me, that she was called about two in the morning, and found the woman in labour, with a fnrall degree of flooding; but that it grew more violent as the pains increased. She fignified to the friends that the patient was in great danger; and about eleven in the forenoon I was called; the membranes were broken, and the difcharge diminished. In time of a pain I examined, and found the face of the child pre-fented. The os uteri was open about the circumference of half-a-crown; it felt rigid, but very thin. This was her first child, and labour had come on two months before her full time. Her pulle was low and weak; the 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 her to take every 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. Ziv. Aq. nucis molchat. Zifs. Laud, liq. gt. x. Syr. e mecon. 3fs. two spoonfuls to be taken every half hour.-- I was again called about two hours after, and informed, that although the lay quiet, yet the had enjoyed no fleep; and that the faintings had returned. As the feemed to be in imminent danger, I tried, as the lay on her fide, to thretch 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 ftretch the os internum with the fingers of my left-hand contracted in a conical form; but although 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 I proceeded in a flow manner and at intervals. Finding the flooding return, and being afraid the would be lost if not foon delivered, I told her friends this was the only chance she had of being faved. I went to work again, and ufed greater force than before; 'but to as little 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 flretch_z ing, and that fome of them had even recovered without any unfavourable fymptom following. As this therefore felt fo thin and rigid, I found no way could be taken but to make an incition on the os uteri. For this purpofe 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 part; but finding I could not manage fo as to cut through the edge, I pushed one of the points within three or four lines 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 from affecting the bladder, rectum, and large veffels at the fide of the uterus. Withdrawing the feiflars, I introduced my left-hand, and found the fnipped part gradually give way, fo much as to admit my hand, though flowly, and with fome difficulty, into the uterus, where I eafily 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 evening, when the fell into little flumbers ; but was attacked every now and then with cold and hot fits. I had given her feveral times a little of the anodyne mixture; alfo fome burnt wine and fome chicken-broth to fupport her, and

and recruit the exhausted fluids. Next day, as the cold shivering returned once in three or four hours, I ordered some extruct of the cortex to be diffolved in red winc, and given betwixt the shiverings. The discharge was moderate; but nature being so much exhausted, she died the fourth' day.—*Vide* case viii, and xvi. of this collection; also case xxviii. of col-. left. xxxi. likewife xxxiii. N° ii. case ix, and case viii. of collect. xl.

CASÉ XI.

BEING called in the evening to a woman near 40; in labour of her first 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; but that the head lay high, and did not advance. 1 underftood by other accounts, that the woman had been put too foon on labour, and was much fatigued. I felt both the os internum and externum largely 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 fatigued with fruitlefs pains, that were much abated, I had her put to bed, to try if the could enjoy fome reft; and defired her not to force down, but when the pains obliged her. As the was collive, her pulse full, and quicker than usual, and her skin hot and dry, she was immediately bled, and procured plentiful puffage with a clyfter. She enjoyed feveral refreshing fleeps betwixt the pains till morning, when the pains grew ftronger, but still had little effect in advancing the head. The pains again falling 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 reft feveral times. I afterward used all the caution imaginable to bring down the head, fo as to fave the infant; but at laft was obliged to increase the force to deliver the woman, and pay lefs regard to the child. By these last violent efforts, both the under-jaw and neck began to feparate. I was obliged to defift, as I found that one of the joints. of the neck was entirely feparated, and that only about one-half of the skin of it remained untore. . I thought it would be easier to fix the crotchet on the head now than when separated from the body; for although the hold at the neck was flender, yet it kept the head fleady. I directed an affiftant to hold up the body of the child, while I introduced my left-hand along betwixt the right fide of the vagina, as the woman lay fupine. Then I introduced the crotchet, and delivered the head, though not without a good deal of force, and difficulty in fixing the crotchet, which was the ftraight kind. Even if I had at this time known the use of the forceps, they would have been of no fervice in this cafe; because the head was fo large, and fo little advanced in the pelvis. The fault was not in waiting longer; for I have had many cafes fince, where waiting patiently, the head has advanced; and been delivered with the pains, or with the forceps, The pelvis was not narrow.

ATA PARA

T HIS woman was remarkably tall, and to outward appearance well formed for bearing children; but on enquiry after delivery, I found that the had been fickly and weak for the first four or five years of her infancy.

fancy. I was called to her, when the had been long in labour of her first child, and was obliged to diminish the head before I could deliver. I was called fooner when the was in labour of her fecond; and although the head prefented, I tried to fave this child, by bringing it footling. The body paffed with difficulty, from the projection of the last vertebra of the loins with the os facrum. After I hall brought down the body, I endeavoured, before the arms came down, to move along the head, first by preffing down the head as fhe lay in the supine position; then I attempted to bring down the forehead by pulling upward; finding, however, that the forchead refled against the difforted part, I tried with my fingers to prefs it to the fide; 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, having pushed 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 impossible to fave the child. I was then obliged to introduce the curved crotchet, which was the first time that I had occasion to use it in such cases fince altered from the straight; and found it particularly useful on this occasion; for inflead 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 hold on the bones of the forehead; by these means the cerebrum was fooner evacuated, the head collapsed, 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 almost exhausted ; but after all, was at last obliged to deliver as in her first labour. The children were all large. In her fourth pregnancy, the was luckily taken in the feventh month in labour, in confequence of a loofenefs and fuper-purgation, occasioned by eating too much fruit. This child, though the head paffed with difficulty, was delivered alive ; and the has not been pregnant fince .- Vide cafe penult, of collect. xxxiv. also the former of this.

CASE XIII. and Supplement to CASE I.

AR. H----, of G----- Street, was called about two or three in the M 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 pelvis narrow. He fent immediately for Mr. W. in Bishopsgate-Street, who brought down the body, but could not deliven the head; neither did they choose to use great force, for fear of separating the body. Besides, Mr. H---- did not choofe to begin the practice fo foon, being a ftranger ; and Mr. W. was just come off a long journey, very much fatigued. Ľ 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 glad when I found there was no flooding, and that the woman was ftrong, and no way funk or wore out with the labour. I had her laid across the bed, her breech a little over the fide, and two of the gentlemen supported her legs; one of them also supported her body till I introduced my right-hand into the vagina. I found the face lay backward a little to the left fide 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 impossible to. deliver the head without diminishing its bulk. As we were certain, from the

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 puthed up the ends of my fingers, that were already in the vagina, past the os internum, but with difficulty, it being strongly contracted round the lower part of the head ; and by the largeness of the head, and narrowness of the pelvis, they. were very much fqueezed. I endeavoured to raife the head higher, to make more room, but could not, although I used 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 first trial could not get it topafs my fingers ; I withdrew them to make more room ; but the os inter-, num contracted again fo close to the head, that I could not get the end of the crotchet to pars. I again tried to force up the head with all my ftrength, and with great difficulty raifed it a little higher; a circumstance which afforded more room, the crotchet paffed 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 flipped up 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, used the fame precautions as mentioned in cafe ii. and delivered in the fame manner, by fixing 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 she 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.

CASE XIII. or Collection XXX. CASE VI. By Mr. John Paificy, Surgeon, in Glafgow.

A UTHORS having differed very much as to the thickness or thinness of the uterus of a woman with child, some, with Mauriceau and Dionis, afferting, that it turns always thinner as it extends ; whilft others; I may fay almost all anatomists, 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 stages, the thickness of the fides of the womb keep; the fame proportion to its cavity as in a natural flate, the finufes and veffels being proportionably enlarged as the uterus is extended. I fay, this having occasioned fome disputes among anatomist, 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 thickness of it; and at the fame time of discovering a fatal miltake in the midwife who attended her; who, by delaying to call for affiftance in due time, was the unhappy occasion of the death both of mother and child.-- I was called to a woman in labour, about a middle age, of a low stature, and pretty 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 pulle, and unable to utter one word, though the thewed fome figns of being defirous to fpeak with me. The midwife that attended her had gone off upon my being fent for, and left a young practitioner whom the

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was training up in that bufinefs, who gave me the following account of the poor woman's cafe, viz. That fhe 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 posture, 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 the had a good deal of other bufinefs upon her hands, fhe frequently left the poor woman for half a day together; and upon her return still found all things in the fame fituation the left them in. From the first day the woman was taken with her pains fhe fcarce made one drop of water; wherefore on the fifth, the midwife fuspecting that to be the cause of the birth being retarded, font to an apothecary's shop for a strong stimulating diuretic mixture, to increase 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 to long fatigued with her labour. This having no effect, a ftronger one was called for, which proved likewife unfuccefsful; and all things continued in the fame ftate, only that the woman's ftrength 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 firength 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 these circumstances, being perfuaded fhe could not live above a quarter of an hour; which accordingly happened, the dying in a few minutes. Next day I prevailed with the friends 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 diffended 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 outing out of blood from the fubstance of the uterus, by the strong pressure when the pains were violent, or from the rupture of fome fmall vessels, either of the uterus, or fome other part of the abdomen, I do not determine ; for I could not obferve the least appearance of any ruptured vessels in either, after the most 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 observed in such cases, 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 if violent after-pains, fever, inflammations, and their confequences, follow; for in fuch a bad habit of body as women in these circumstances are generally allowed to be in, it is fearce fuppofed that coagulated blood can eafily be diffolved and again abforbed by the veffels, in fo large a cavity as that of the abdomen; wherefore by its stagnation and putrifaction 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

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chief eaufes of those many diforders and frequent deaths that happen after very violent and laborious births ; though there are many other caufes well enough known, which are capable of producing fuch like effects, This phænomenon being what had never occurred to me, either in reading or practice, I thought it would not be unufeful to acquaint the world therewith, to prompt those 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 just, or what other caufes may probably be affigned for it; what fign it may be difcovered by; what method of cure might be proper in fuch a cafe; and the like. When I had removed this coagulated blood, I obferved a large fac, or b g, full of water, lying along the fides of the uterus, above the inteffines, 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 diffended 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 measured the urine; it contained no lefs than eight English pints, or a Scotch quart. The uterus was pretty closely contracted on the child ; and in opening it from the fundus to the cervix, I found it at least half an inch thick in the thinnest part, though a good deal more at its fundus, where I observed the finuses 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 fo long 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 lide; 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 pubes, as to make a confiderable indentation in them, and raifed an inflammation for an inch or two round the contufed part. I believe 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 are in a fair way, and that there wants only fome medicine to promete 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 practical writers, when the giving of fuch medicines may be of the worft confequence.

CASE XIV. and Supplement to CASE V.

THE membranes had been broken, and the waters were all gone, before I was called. The midwife told me the breech prefented. Another gentleman had been called, but he being afraid it would turn out a difficult 3 G 2 labour,

labour, left her; upon which I was fent for. When I examined the woman, I at first imagined a leg and a hip prefented; but on pulling the fuppofed leg, which was lying in the vagina, I found it an arm, and very much fwelled. It appeared very plain to me, that the midwife had pulled very ftrongly at the arm, bccaufe it was fwelled, and the ends of the bones at the fhoulder and elbow were ftretched to a confiderable diffance. She had, after her fruitless endeavours to extract the child, doubled up the arm into the vagina. When I told her it was the arm, the faid the had felt the fingers lying, as the imagined, with the leg. However, as it was my bufinefs to deliver the woman, I faid no more. I l. id her fupinely acrofs the bed ; two women fupported her legs and thighs ; her nates were raifed, and brought a little lower. I tried first to introduce my right-hand betwixt the arm and the os facrum, but could not pass it 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 pushed in at the brim; the fore parts of the child 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. I renewed my endervours, but the bason being n rrow, and the arm of the child fo much. fwelled, I was obliged to defift, and to proceed with cau ion and by de-. grees, left I should lofe the strength of my arms, by working too muchand too long at a time. I next tried to push up the ar a into the uterus; but the contraction of this laft 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 being to much fwelled and, over-ftrained at the joints; as the meconium, according to the midwife, 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 deliver the head without the help of the crotchet. All these circumstances made me think it more advifeable to feparate the arm at the fhoulder from the body. To do this with greater eafe, I pulled down the arm with a good deal of force, introduced my hand below it into the vagina, and my finger up to the fhoulder; but my fingers were fo fqueezed betwixt that and the projection of the forefaid bones, that I could not divide it with the feiffers; and in my attempts to push up my hand, I found that the fore arm obstructed me moft. I then separated this at the elbow. After having refted a minute or two, I again tried to push up the arm and shoulder; the arm I folded up, and the fhoulder gave way a little; but by this time 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 tried with my left hand, but that was, in a little time, more difabled than the other. Once more I turned her to her left fide, and refted about five or fix minutes. I now found that a flooding was begun, fo that there was no time to be loft. I introduced my right hand into the vagina, but the bones backward still hindered my hand. After turning her a little more toward her beliy, I got again the arm folded up to the flioulder, and both raifed folligh, as to pafs my hand up to the fundus uteri. I he muscles of the thick part of my arm were for much preffed, that if I had not got one of the feet very readily, I must have withdrawn it again. Gratping the heel and fore part of the foot between

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tween my fore and middle fingers, I brought it into the vagina. I then refted a little, and by degrees fixed a noofe upon it. I really thought, in the middle of this last effort, I must have given up this method, and have tried to introduce the crotchet, to fix it on the breatl or ribs, and by that means tear down the body of the child into the vagina. The feet being brought down eatily by the noofe, I introduced my right-hand, and raifed the fhoulder and head fo much, that by pulling the noofe with my other hand, on the outfide, I brought the breech down to the brim of the pelvis. After another intermifion 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 outfide of the left groin; but, after feveral trials, could not get that hip to advance. Feeling that the blunt point was paffed in between the thighs, I wrapped one cloth round the crotchet, and another round the right leg, and pulling both with great force, brought down the body and fhoulders without the os externum. The weather 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. I then endeavour 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 up along 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 left-hand on each fide of the child's neck, and over the fhoulders, and began to pull with both hands, flowly at first, till I found that the point of the crotchet had a firm hold in the head. 1 increased the force of pulling the crotchet, and found that it came down about two or three inches without moving the head. Apprehenfive that the point had not entered the skull, 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 fast above the forchead; I then rested, and afterward began to pull both the crotchet and body of the child with greater force. I found fome of the cerebrum coming out, and the head moving a little lower. I continued to reft and pull by turns, until the head lessened, and was squeezed by degrees into a fmaller bulk. After it had passed through the narrow part of the brim, it was delivered with great cafe. The placenta being already loofened from the uterus, was immediately forced into the vagina. I took hold of the umbilical cord with one hand, and the edge of the placenta with the fingers of the other, by which means it was foon extracted. The uterus foon contracted into a small bulk. I examined with my fingers the perinæum, and found that it was not the leaft cracked or tore. The woman bore all these endeavours with great courage; her pulfe continued good and ftrong; the difcharge of blood was

was not great, and did rather fervice, 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 crown, and it had tore open all the fagittal future through the fontanelle, and fixed on the thick part of the skull at the forehead, which a straight 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 ordered the woman to be kept quiet, and to drink frequently of warm caudle. I called two days after, and found her pulse strong, quick, and hard, with pains in her 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 fifters, could fweat or bear fweating : the difcharges had gone on very well, but were abated more than ufual that day. I advifed that the thould 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 re-covered 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 facrum to the pubes. If I had not refted a great many times, and proceeded with caution and deliberation, 1 should have failed in turning the child; and if I had pulled with too great violence at the body, I fhould have fe-parated it from the head, which it was very difficult to open and extract in fo narrow a pelvis.

CASE XV. and Supplement to CASE V. In a letter from Mr. Mudge, of Plymouth.

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 ftrong, though very quick, and her countenance very florid ; circumstances owing to her drinking plentifully of spirituous liquors. On examining, he found most part of the left arm hanging out of the passage, together with the cord, which was cold, flabby, and without the least pulfation. The head (as he imagined) was funk down confiderably, infomuch that he thought nature might be fufficient to pufh it forward. He therefore left her, and prefcribed fome medicines to amufe. He called about eleven, 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 instrument slipping two or three times, he defifted, and tried to turn and bring the child by the feet. However, the paffage being filled up he was obliged to twift 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 pushed down, exactly moulded to the shape 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 lcg; and by pulling at it, and puffing up the fhoulder at the fame time, he foon extracted the child. The labour refted about twelve minutes, and the

the child was quite rotten. The remainder of the cafe carried to collection xliii. N° i. cafe 2.

CASE XVI. and Supplement to CASE X.

T H E woman was in labour of her first child, eight month's gone, and the child's arm prefented. She was attacked with a flooding and the child's arm prefented. She was attacked with a flooding ; and had been in labour feveral hours. The membranes were broken, the hæmorrhage was a little abated ; and the arm pushed 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 position, I by degrees introduced my hand into the vagina; and afterwards my fingers into the os internum. Thus I endeavoured gently to ftretch, by pushing up my fingers in form of a cone; but to my furprise, found it so rigid, that it would not dilate in the least. I then used greater force, and repeated it feveral times, by using one hand till it was fatigued and cramped, and then the other ; but all to no purpose. Having failed in all these 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 fciffars, and fnip the edge of it. This operation being performed, it gave way fo as to allow my hand to pass into the uterus. I then turned the child, and delivered it by the feet, which were much mortified, the child having been dead at leaft a fortnight. The woman feemed in a way of recovery ; but 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 fhe immediately expired. This was the fecond time that I had fnipped the os internum when I could not ftretch it, fuppofing that as it was fo thin the dilatation could have no bad effect. Although I did not fucceed in collect. xxxv. cafe x. I attributed the death of the patient in that cafe to her great weaknefs, from her being exhausted before delivery by the hæmorrhage; but I hoped, as this woman was ftronger, the fame method would have fucceeded ; efpecially as the child must in this cafe be brought footling. I fay, I had found it tear confiderably, and the woman recover; but I afterwards reflected, that as the patient had not flooded much, I ought to have waited longer to allow the pains to push down the shoulders, and dilate the parts no more. No doubt the violent force used first 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 most difficult things in midwifery to know in floodings, especially if the child prefents wrong, when there are labour-pains, how long to delay the delivery : becaufe if we deliver foon, and the woman dies, we are ready to reflect 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 weakened 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 diminishes, or ftops, on the breaking of the membranes in labour, and and then the head is forced down, and the woman is for the moff part fafely delivered; but here the wrong polition prevents the delivery; and although the violence of the flooding is abated on the waters coming off, yet as there is a training, 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 xxviii. and collect. xl cafe viii. likewife collect. xxxiii. N° ii. cafe ix.

CASE XVII. and Supplement to CASE V: In a letter from Mr. Mudge, Plymouth.

H was called to a very little woman much deformed. She had 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 first with great caution, to fave the child; but the pelvis being fo very narrow, that the head was as immoveable as a rock, he increased the force. and underwent a greater fatigue than he could deferibe. He endeavoured to introduce the crotchet, and fix it on the upper part of the head; but his strength being fo much exhautted, and the pelvis fo narrow, he could not raife it high enough; but fixed it on the under jaw, and finished the delivery by means of his utmost force. The labour lasted about twentyfive minutes. The mother was perfectly well in a week.

CASE XVIII. and Supplement to CASE IX.

THE woman had been in labour feveral hours before the membranes broke. Mrs. Moore, now Simpson, whom I had taught, and kept on purpose to attend all the labours with the pupils in the teaching way (in Berwick-Street) was first 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 diffinguish 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 she had strong pains, I thought it was more adviseable not to wait any longer, especially as the woman herself told me, that in her former labour, which was her first, 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 still kept up in the uterus; fo that when I pushed up the head, it was with great ease raised to the fundus uteri. By pushing it in

up quickly, the thick part of my arm filled the os externum and vagina; fo that the remaining waters were kept up, till I got the child turned with the breech and legs to the lower part. Thefe I eafily delivered, and expected alfo to have fafely extracted the head, although the pelvis was narrow. J. brought the chin a little to the left flde, 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 first to pull with a fmall force; but as the head did not advance, was obliged to increase it more and more ; though to no purpose. I refted and pulled again with all my ftrength, till the fingers of my right-hand began to fail; then I changed hands, but without effect. I relted and changed hands again, and continued to pull till I found the neck and jaw Begin to give way. As it was now to no purpose to try any longer, because the child could not be brought alive, I extracted it with the crotchet in the fame nianner as defcribed in the two last 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 fwelled at the joints next to the back of my hand for feveral days, fo that I could fcarcely move them. Next day the joints at my elbows and fhoulders were fwelled alfo. The woman recovered.

CASE IX. and Supplement to CASE XI. and Collect. xxxiii, No. i. Cafe iv.

A LEAST A LEAST A LEAST

HE woman had been beaten and kicked on the private parts three weeks before, fo as to occafion a large fwelling on the labia pudendi. She had not felt the child ftir for fourteen or fixteen days. Some of the gentlemen that attended me, had been 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 fwelling, which relieved her, fo that it was quite gone before the fell in labour. She was weak and low, having eaten or drank little fince the time fhe had received the bruifes on her body, which had rendered her incapable of begging about the freets as formerly. When I examined, I found the os internum pretty much dilated, the membranes felt very thick. She had been feveral hours in labour, but as the was weak. 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 feven in the evening ; but there was not the least alteration in the parts. As the woman was weak, and I fufpected that the child was dead, from the head being kept up fo high, occasioned by the belly being very much fivelled, and expanded with air, which made it fpecifically lighter than the waters, I refolved to try to deliver her, especially as she had formerly two children, and according to her account the labours were not lingering; but fuspecting there might be difficulty, I waited till all the gentlemen that attended me were convened. I had the woman laid, fupine across the bed, her legs supported by the two eldest pupils. At first I defigned to have broken the membranes, that the head might be forced down when the waters were evacuated, and the uterus contracted; but finding the membranes high up, and rigid, and that the os externum dilated with a fmall force; I altered my defign, and introducing my right-hand into the vagina, paffed it up through the os internum into the uterus. Having broken the membranes, I passed my hand within them, and found the child floating in a large quantity of waters, which were kept up by my arm locking up the os externum. I then felt, and told the gentlemen that the belly of the foetus was largely fwelled, and that I was then turning up the head to the fundus.

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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 externum, and the scarf-skin stripped 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 lcgs 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 obstacle. With my right I introduced the sciffars, and pierced it with the points, on which a good 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 these I got a firm hold over the os pubis of the fœtus, 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 foundit was feparating at the 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 every part tore fo eafy, that I could not bring down the body. I then was obliged to take out the crotchet and reft 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 shoulders, brought down one of the arms. I attempted to fix a noofe over the wrift, 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 push it up and bring in the head; but this last was so large and flippy, that I could not turn it down fo as to get the hind or upper part to prefent. Being again fatigued by these fruitless endeavours, I was obliged to intermit. I then resolved 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 flould 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 should not be too much exhausted. 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 wrapped in a cloth. Finding the head did not move, and that both the under 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 my 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 handle of the crotcher with

with it, and the fhoulders with my left. I tried feveral times if the crotchet had a firm hold, and gradually increased the force of pulling; 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 skull, from that part through the fontanelle to the boncs of the forehead. At this large opening, the brain was fqueezed out, the head collapfed, and came down with greater eafe. I was afterwards obliged, with a great deal of trouble, to feparate 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 fide. One thing was remarkable, and affitted me much, at least it prevented a greater fatigue. Every time 1 introduced my hand into the uterus, I found it fill kept from contracting on the child, by fome waters that remained; for although a vast quantity came off at first, yet when I brought down my hand, the parts of the child preffed fo close down, that there were still some detained. My greatest fatigue was occasioned by my being obliged to often to pull down and puth up my hands, as well as by the flipping of the body and crotchet. If I had taken the first method I defigned to follow, 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 fwelled, the forceps could not have brought it down. The only advantage would have been after the head was opened, and extracted with the crotchet, that the shoulders could have been easier tore down with the instrument, 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 CASE XII.

WOMAN near her full time, of her fecond child, was taken with a A discharge 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 her first child till within three weeks of this labour. It then died; and her grief, joined to the thock 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, 1 found the head of the child prefenting with the membranes and waters; the os uteri foft 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, especially after she had told me, that she had been delivered cafily of the first 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 more, I then brought down the legs, body, shoulders, and arms. I now introduced a finger into the mouth, and expected, as the had an easy labour before, to have delivered the head with very little difficulty; having tried every fafe method, first to bring the forehead into the hollow of the os facrum, by pulling the body both upward and downward, and likewife from fide to fide; then endeavoured to move the face firft 3 H 2

firft to one fide, then to the other; all my efforts proved ineffectual. I exerted greater force, and continued to increafe it till I found the neck and mouth begin 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 flowly 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 l expected.

The child's head was about a third larger than common, and it was remarkable, that the fontanelle and futures were no otherwife than in a found head, the first no larger, and all the bones were close to one another: in general, when the head is dropfical, the bones are firetched from one another more or lefs, according to the quantity contained. Dr. Brifban examined the head next day, and poured through a funnel 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 leften 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 her to reft and fweat; but fhe being mifmanaged, and neglected by her nurfe, was thrown into a fever, and died about the 18th or 20th day.

CASE XXI. and Supplement to CASE XII. In a letter from Mr. A-, of B-.

H E was called to a woman, who had been in a lingering labour 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 required 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 longer, as the woman did not feem to be in fuch 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 difficulty, and what he did not expect.

CASE XXII.

THE fame gentleman had a cafe fimilar to the preceding, wherein the woman had been in labour all the day before, and the waters had come off feveral hours before he was called. The head refted over the os pubis, and the pains were almost entirely gone off. Having laid her on her fide, and raifed her hip higher than her fhoulders, he eafily introduced his hand into the uterus, and brought down the legs and body of the child; but after many repeated trials, and exerting great force, he could not deliver the head. Thus foiled, he was obliged to introduce the crotehet, which he fixed on the left parietal bone, near the fagittal future; and at laft, not without fome difficulty, delivered the head. The child was very large, and the pelvis narrow, from the projection of the upper part of the facrum, 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 conducting the operation after this manner, when he knew what fort of pelvis he had to deal with; as he could not tell but that the head was not only large, but alfo too much offified, to yield to the paffage. He was in hopes, by 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, No. ii. Cafe xvii.

CASE XXIII.

THE fame gentleman writes a third time, that he was fent for to a wo-man about midnight. The midwife acquainted him, that after the waters broke, though the pains were flrong and forcing, the head did not advance, but rested on the os pubis; that she often endeavoured to difengage it, but to no purpose ; she therefore 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 very narrow, from the jutting in of the laft lumbal vertebra, 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 fuceeed in this endeavour. He now caufed the patient to be turned on herknees and elbows, and with much difficulty introduced his hand, but was feveral times obliged to withdraw it for eafe, the great preffure cramping him fo as to render him incapable of reaching the feet. In this fituation he hardly knew how to act. The head was not only very high up, but did not prefent fair enough for the erotehet; and the contraction was fo ftrong, he almost despaired of bringing down the feet. However, as he thought this the most probable way of relieving the patient, he once more attempted it; and after much difficulty, fo far fucceeded as to bring down one foot, and fix the noole on it. He then brought down the other, and joining them together, extracted as far as to the cheft, and reached the left arm; the right being engaged with the head, gave him fome trouble, and he fnapped the humerus in extracting it; but this gave him lefs concern, as there was no pulfation in the funis. The arms being down, a principal difficulty (the head) still remained. He introduced a finger into the mouth, and had very near diffecated the neek ; it was fo fail locked, that he could gain no ground. He therefore infinuated a crotchet, by

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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 eight hours after, but died that day or the following.

The two first cases from Mr. A- were both badly conducted, and inferted as a caution to others to wait with more patience.

C A S E XXIV. (A preternatural one.) From Mr. C. Chorly, of Sankey, Lancashire.

WAS fent for to Afhton, near Wigan, by a furgeon, to Anne Marfh, called the Little Dwarf, about one yard nine inches in height, aged 39 years. The midwife told me fhe had been four days in labour of her inft child; that the leg had been without the birth twelve hours, and the patient had now no pains. I found the heel toward the pubes, and the fcrotum hanging out much fwelled. After ufing great force, I raifed the body of the child, which gave me more room to introduce my finger betwixt the thigh that was ftill up and the body. I at laft, by taking time, and ufing all my frength, got the body delivered as far as the fhoulders. Perceiving the cartilages of the fiernum driven inward by the jutting forward of the vertebræ 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 crowhet, I tore open the fkull, and as the head leffened, I delivered the fame. The woman recovered very well.

COLLECTION XXXVI.

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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.]

CASE I.

MIDWIFE, who never had any education, and who had formerly boafted that fhe always did her own work, and would never call in man to her affiftance, was called to a cafe in which the child prefented wrong. After fhe 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 thole who were prefent, that fhe would not wait for the affiftance of the woman's pains. One of the fervants feeing me at a diftance, 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 fhe 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

body was pulled from the head, and she fell down on the floor. As she attempted to rife, one of the affistants told her that it wanted the head, a circumstance that shocked her so much (being a woman of a violent disposition) that she was immediately feized with faintings and convulsions, and obliged to be put to bed in another room. I just then arrived, and was furprized to find the house in such confusion.

After being informed of what had happened, I found that the woman's pulse was pretty good, and that there had been no difcharge of blood from the uterus, but what came now was only from the child's head; which, to my great joy, I found lying in the vagina and pelvis. I let her lie a little, to recover of the former fatigue, then examining more particularly, I found part of the fkin of the neck without the os externum. After I had put her in a supine position, I introduced the singers of my left-hand, and found the mouth at the right fide, and lower part of the facrum. Introducing two of my fingers into it, I tried with that hold to bring along the head; but finding that this would not be fufficient, and being afraid that the under-jaw would feparate if I used greater force, I pushed up my fingers farther, and along the face, and with my right-hand introduced the crotchet to the upper part of the forehead. Here I 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 polition in bed, I went and recovered the midwife, by giving her fome volatile fpirits in water. The child appeared to have been dead feveral days, and I was perfuaded, that if the neck had not given way, but had flood another pull, the head had been delivered.

This accident was lucky for me, and rendered the midwife more tractable for the future.

CASE II.

THE breech of the child prefented, with the thighs to the pubes, and 1 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, fhe fixed a cloth over the fhoulders, and got one of the by-ftanders to affift her, by pulling with greater force; by which the body was feparated from the head. In confequence of this accident, I was immediately called. I found the greatest part of the head still above the pelvis. The midwife told me fhe was in hopes that the woman's pains would have delivered it before 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, and found that the child had been dead at leaft ten or twelve days; the fourffkin was livid, and fome of it firipped off; and the woman had not felt it move or flir during that time. After encouraging her, and giving her fome warm wine and water, and putting her in a fupine polition, 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 being effected, I ordered an affiftant to prefs on the belly with both hands, to keep down the uterus and head in that polition; then op ming the head with the feiffars, I went up along the forehead and face, introduced the blant-hook with my other hand, and fixed the point in the mouth, which 1125 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 thefe 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 the upper part. I alfo had fome difficulty in keeping the head fleady fo as to perforate the fame with the fciffars; by which both my hands were pretty much cramped and wearied.

HE head was feparated much in the fame manner 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 10 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 discharge of blood, which now began to increase, I was sent for. As the external parts were pretty much fwelled, I with difficulty introduced my hand into the vagina, and pufhing up the head, turned down the upper part, as in the former cafe ; but the talk was rendered much harder, from the narrowness of the pelvis, and the placenta lying loofe at the back of the uterus; this I was obliged to bring down before I could place the head in the right polition. After I had ovened 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 ear; and luckily the head not being very large, I brought it gradually lower, as the cerebrum evacuated, and at last delivered it; 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 eye.

CASE IV.

H E arm of the foctus prefented. The midwife 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 body delivered, that he was not able to extract the head. In this fituation he called Mr. Steed, of Guy's hospital, who tried feveral times to deliver the head in the manner deferibed in collect. xxxi. He afterwards endeavoured to introduce the curved crotchet, and to fix it on the upper part of the child's head, but was prevented by the narrownels 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 last 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 inftrument, they at laft refolved to feparate the body from the head; an operation which one of the gentlemen 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 did not fucceed, they tried to pufh up the head, fo as to third down the vertex, and open it with the feiffars, and then to extract with the crotchet, as in the former cafes : but being 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 her in a fupine pofition

tion, I introduced my left hand into the vagina, then raifed the head, fo as to gain admission into the uterus. In doing this, I found that the difficulty in the head coming along proceeded from the pelvis being difforted; and that the upper part of theos facrum and lait vertebra of the loins jutted conliderably forward. Having found the mouth, I introduced a finger into it, and bringing it downward, turned the forehead to the right fide, at the brim of the pelvis ; then tracing up with my fingers along the face and forehead of the child, while an affistant preffed gently with both hands on the abdomen of the woman, I tried to introduce one of the curved crotchets ; but the publes preventing me from infinuating it far enough up in this polition, I turned her to her left fide, and introduced my left-hand in the fame manner. Betwixt this and the child's head, I flipped up the crotchet with my right-hand, having the head grasped 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 skull, 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, viz. at the under jaw with my left, and at the crotchet with my right; but finding that it required a great deal of force, I pulled at first 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 diminish in its bulk. I exerted the greatest force at the crotchet, and only a little at the under jaw, for fear of tearing it off, and lofing that hold, which is of great advantage to keep the head fleady. By increasing the force at intervals, the head began to advance lower and lower. When I had brought it down into the pelvis, I directed the affiftants to lay the patient in the fupine polition ; 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 circumstance 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 down, I introduced my hand into the uterus, and found the part where the head was lodged still pretty. open.- At the upper part of it 1 perceived the middle of the uterus, contracted in form of an hour-glass, below the placenta, which adhered to the fundus. I infinuated the fingers of my right-hand gradually into this contracted part, while at the fame time I prefied my left-hand on the abdomen, to keep down the uterus. After it was fully ftretched, 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 crotchet had fixed on the right bregma, and had made an opening about two inches long, down toward the temple. In operating, I tried to fix it nearer the vertex, on the fagittal future; but the head being flippy, and difficult to keep in a firm polition, I was glad to fix it in that part. Indeed I imagined it was fixed higher, and the opening much larger, till the head was examined. The woman, although the was much exhautted by undergoing the fatigue of these feveral trials, yet at last recovered much fooner and better than expectation. When I was called (as fuch cafes happen but very feldom) I carried along with me a pair of the long forceps, bent to one fide, Amand's net, Leveret's tire-tête, and a pair of curved crotchets. But finding the difficulty proceeded from a narrow pelvis, and that the head must first be opened, and lessened in bulk; before is could pals, the curved crotchers

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[PART HIL:

crotchets feemed the most fimple and effectual instrument. 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 feem better adapted for this purpose than either the straight kind or blunt-hook, to be used either with or without the straight. Dr. Hunter was prefent, and affisted at this operation. (Vide my Anatomical Figure, table xxxvi. which was drawn to illustrate this case.) This should be a caution to practitioners, never to separate the body from the head, if possible to deliver without using that expedient; but to wa t with patience (when the child cannot be faved) the efforts of the pains, especially if the woman is not in absolute danger; for the head is much easier delivered with the crotchet, when not feparated from the body.

> CASEV. In a letter from Mr. A, of E.

A NOTHER practitioner was called by a midwife, to a woman of a delicate and tender confliction. 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 force to deliver the head, both the jaw and neck gave way. Being much fatigued, and the uterus ftrongly contracted, he could not introduce his fingers to the head, fo as to fix the crotchet. Having fent for my correspondent, 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 narrrow. 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 de-livery, without any complaint from the feverity of the labour.

CASE VI.

In a letter from Mr. Cadby, at Blandford,

E was called to a cafe, in which the midwife had pulled the body of the child from the head, which was left in the uterus. This he immediately delivered, by fixing the curved crotchet on the head, and his fingers in the child's mouth. In Mr. Giffard's Cafes of Midwifery, cafe. 60th deferibes the head of a foctus, fix months old, left in the uterus, and delivered with the hand. Monf. Lamotte, book iii. chap. xxiii. has a cafe of the head being left in the uterus, the body having been delivered and tore from the head with great force. And in the laft cafe of the fupplement to his Treatife, there is a cafe, in which another gentleman could not deliver the head, which was feparated from the body, and left in the uterus. Neverthelefs he went to bed; and the first news he heard in the morning was, that the head was delivered by the mere affiftance of nature.

Dr. Grange, of Hatfield, told me of a cafe, in which he and Mr. Wilfon, of Enfield, were fatigued a whole day in delivering a head, which was fo flippy, that for a long time they were not able to open or fix an inftrument upon it. He was convinced, that if they had had the inftruments mentioned in cafe iv. the operation would have been more eafly performed,

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PART HI!]

SMELLIE'S MIDWIFERY.

Ι.

COLLECTION XXXVII.

Cales of two or more children delivered at one birth.

[Vide Part i. Book iii. Chap. v. Sect. i.]

CASE

WAS bespoke to attend a patient, who was of a delicate and tender to her in the evening, and found the pairs were weak and feldom. conftitution, and hid fuffered much in a former labour. I was called The head of the child prefented; but the pains were weak and feldom. Expecting that it would be tedious and lingering; as the former, I fent for Mrs. Maddox, my midwife, to attend her, who was 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 pushed down without the os externum, which had an uncommon feel. When I introduced my finger into the vagin'a, 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 these membranes, with only a small 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 still before the head. I also 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 position would occasion a tedious labour, I pushed 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 still presented in the middle, yet the child being small, the face and forchead turned backward to the concave part of the facrum, and the vcrtex turned out below the pubes, and was foon delivered. After I had tied and cut the funis, and given the child to an affiftant, I examined, to find if the placenta was coming down; but initead of that, the head of another child prefented; and as I felt no waters or membranes before it, concluded that those were its membranes which came first down. The vertex prefenting, the patient having fresh pains, and not weakened by the former labour, the membranes being broken and the waters 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 should be uneafy; but faid that I commonly waited to fee if the placenta would 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 came likewife down gradually in one cake.

CASE II.

WHEN called to this cafe, I was informed by the midwife, that fhe had delivered the woman fafely of the first child, which came in the natural way about fix hours before. She faid there was a fecond child, which lay at first fo high, that she could not diffinguish whether it came right or wrong, till the woman had fresh pains, which increased, and grew ftronger in about three or four hours after the first child was delivered,

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livered. Thefe forced down, and broke the membranes; although the pains had been frequent and ftrong, and the head pretty low down, it was shill fome how retarded. I examined, and found that the right car 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 hand into the vagina, and pushed up the head at the left fide. As the pain continued and increased, I withdrew my hand, and the vertex was pushed down the lower part of the right ifchium. 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 part of the right, and the left ear at the pubes. The midwife told me, that the had feveral ftrong pains after 1 went away, but that now they were grown weaker. She alfo faid, that there was a pretty large thow at times, and feemed apprehenfive of a flooding coming on. I then caufed her to be placed in a fide position, and delivered the child with the forceps as described in collect. xxviii. part ii. I found at first the delivery was retarded by the wrong polition of the head; when that was remedied, another difficulty 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 most cases of twins that I have attended, was much larger than the first. The placentas formed one cake. A case of the fame kind fucceeded in the fame manner with Mr. Palmer, of Bath, when he attended my iectures.

CASE III.

I WAS befpoke, and called to a gentlewoman in labour, who had been very weak and low for many months, and much emaciated, from a spina 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 Lift 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 the had perceived it ftir higher up, and at both fides. After delivery, the laid her hand upon the abdomen, and called out that it was still very big. I then examined for the placenta, and found the membranes, waters, and head of another child prefenting. Without faying any thing of the matter, I flipped 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 featf-fkin eafily firipping off, it appeared to have been dead for the space of a fortnight. The pl. centa formed two diffinct cakes.

CASE IV.

A WOMAN who had bore children before, and was come near to her full time, fell in labour about fourteen days after fhe had been frightened by the fecond flock of the earthquake which happened that year. The midwife telling her hufband that there was fomething uncommon in his wife's cafe, and I being immediately called, fhe told me that

that the certainly found two children prefenting at once, and was afraid that they might entangle and interrupt one another in the paffage; that the head of one prefented, which the fulpected was dead, from the fkin of the head feeling foft and pappy, and the bones of the fkull loofe within the integuments : that the legs of the other prefented, which the was certain was alive, from feeling the child move them. No fooner had the midwife given me this information, than the patient was attacked with a very firong pain, and the midwife was defired to make hafte into the room, for that the would certainly have work immediately; accordingly the had juft time to receive the first child, that prefented with the head : it was dead, as the midwife had foretold, and appeared to have been to 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.

SOON after I began to teach midwifery, I was called to one of the poor women who had belpoke me to attend her with my pupils. When I arrived, I found the breech 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 still high, I expected that it would require fome time to ftretch the parts more fully before it could come lower down, and be delivered. I went to a coffee-house in the neighbourhood, and sent for those who then attended me; but before they all arrived, a meffenger came in a hurry, telling us, if we did not make haste, the child would be delivered. before we could reach the place. This was actually the cafe. I told the pupils, that although they had miffed fecing the labour, yet they would have an opportunity of observing the delivery of the placenta. I then examined; but instead of the placenta, I found the breech of another child prefenting, in the fame manner as the first, 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 although the woman was of fmall ftature, yet neither fhe, nor any of her acquaintance, fufpected that the was with child of twins,

T H E arm of the first child had been protruded feveral hours after the membranes broke, and pretty much swelled before I was called.—As the woman lay on her left fide, I tried to introduce my hand into the vagina; but finding the arm obstructed the passage, I doubled it, and eafily pushed it before my hand into the uterus. While I went up farther to fearch for the feet, I found another child inclosed in its membranes; a circumstance which made mc advance more cautiously, for fear of breaking them, as they lay toward the left fide and fundus uteri, but more forward than backward. I had introduced my right-hand, and finding that the legs of the child lay backward, and to the right fide, toward the fundus, I was obliged to withdraw that hand, and introduced my left, with which I brought down the legs, and delivered that child. The uterus immediately contracting, the placenta and membranes of the first child, with the membranes and waters of the fecond, prefented; but the placenta was loweft, and being feparated from the sterus, came cafily down into the vagina, by pulling gently at the funis. Having delivered the cake, and finding a pretty large

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. Pushing farther up, and breaking the membranes, I turned this child, and brought it footling alfo, as deferibed in collect: xxxii. I ordered a cataplafm to be applied to the first child's arm, which was fwelled; the fwelling in a few days fublided, and the child did very well.

CAS'E VII.

WAS called to a woman in labour. The first child prefented with the hands, feet, and funis in the vagina; I tried, as she lay on her left fide, to introduce my hand and deliver the child, but as I could not keep the patient fleady in that position. I turned her to the supine posture. After I had introduced my hand into the uterus, I found the head high up to the left-fide; I then withdrew my hand, took hold of the legs, and delivered the child. Having tied and separated the funis, I defired the midwife to fit down and deliver the placenta; by allowing it to defeend flowly; but feeing her attempting to push up her hand, I defired that she might rather wait, and signified, if there should be any difficulty afterward, I would affist. She telling me there was fome more work for me, I immediately? fuspected that there was a fecond child; which I found prefenting in the fame manner, and brought footling alfo. The placenta not following for a confiderable time after, I pushed up my right-hand into the uterus, fe? parated and delivered one that adhered to the left fide, and after that the other which adhered to the fundus.

CASE. VIII.

Three children delivered by Mr. Proffer.

I WAS fent for to a poor woman who had been in labour fome hours, being eldeft pupil to Dr. Smellie, who was then otherwife engaged. I touched 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, pufhing up the head at the fame time; by thefe means I finished 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 first had not its own placenta; but finding a refiftance, I opened the membranes of the fecond, which prefented like the former; and confequently required the fame treatment. Having divided the cords, I pulled themfometimes alternately, and fometimes together, but 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 fresh pains; and on enquiry, it appeared to be a third child, which prefented a right-hand and foot. I introduced my left-hand into the uterus, and puthed up in order to get at the other foot; but the uterus being. ftrongly contracted to the body of the child, it was with great difficulty I accomplished it; the placenta followed foon after.

CASE

.C A S E IX.

The delivery of three children ; deferibed by Dr. Harvie, London.

H E 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 focus, he found the bignels proceeded from the firetching of the uterus. Her complaints from this time till she fell in labour, were chiefly cardialgia, vomiting, difficulty of breathing, and coffiveness; for all which she was often bled, and feldom miffed taking magnefia alba. From the conftant vomiting fhe daily loft Arength, and was much emaciated. When the was taken with labour pains he found the os 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 large quantity of waters were come off, and fiill continuing to drain away ; and he was informed that fhe had not been fo eafy for four months; for the 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 morning. 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-firing, and giving the child to the nurfe, he found the head of another prefenting. At the first pain he broke the membranes, and in two more this child was also delivered. After taking care of this, he found there was a third from the still great distention of the uterus; but the patient being faint, and in order to avoid the danger from the fudden emptying of the uterus, he pinned a long towel moderately tight round the abdomen, and gave her the following draught :--- R. Confect. damoerat. 31s. Aq. alexiter. funp. 3ifs. Aq. nucis moleh. 3ij. Tinct. thebaie. gt. xv. Syr. alb. 3i. M.--Examining again, and not finding the membranes puffing down, or any part of the child; and being apprehensive that it might present wrong, he searched higher, and found the head and membranes at the brim of the pelvis. These 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 affifted and brought the placentas away; two of them were joined together, and one feparate. By this time flue was very faint; but the draught taking effect, flue dropped afleep, and after some hours, so far recovered as to be able to bear the fatigue of fhifting. She had a fevere cough for three weeks before delivery which gradually abated afterward ; and fhe pretty well recovered. The children were three fine boys, alive and well. He observes, that from several twin-cafes which have fallen under his notice, he has reason to think, that one principal evidence of a woman being with child of more than one, is the uterus rifing much earlier up in the abdomen than is usual when there is only one. The above patient was as big at the latter end of the fourth month, as women are commonly at their full time.

CASEX.

By Mr. Giffard, Cafe. 151.

I W A S fent for about four o'clock in the morning to the wife of a fnuffbox maker in Dean-Street, near Red-Lion Square, who was, according to her calculation, about feven months gone with child. I had been with

with her about three months before, when the was under fome apprehentions of mifcarrying, and by proper applications 1 cured her at that time; but now one fætus 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 apprehention of the danger she was in, should it not be brought away; so that at last she permitted me to pass my whole hand into the vagina, and foon to the os internum; which I found fo much contracted, that it would fearcely admit the ends of four fingers. But having by degrees dilated the orifice, I in-troduced my hand into the uterus, and found fomething harder than a placenta. This proved to be another foctus inclosed in its membranes, which were much diftended by the waters. I broke the membranes immediately with the ends of my fingers, and then putting my hand within them, I fearched for the feet. The first 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 fufficiently dilated the os internum, the fœtus being likewife very fmall, I judged I might eafily draw it out by the leg already brought down, without giving her fresh pain by passing up my hand again to fetch down the other. 1 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 affift by bearing down frongly, which much contributed to the bringing out of the hips, body, and head, all which foon followed. Upon paffing up my hand to fetch the after-burthens, there being two entirely feparate, I met with the burthen of the focus first born, protruded and lying in the vagina; this I immediately brought away, and then repressing my hand, I found the other lying within the uterus, but wholly feparated from it, fo that I had no more difficulty in bringing this than the former.

In the Memoirs of the Academy at Paris, H. 1727, page 15, 20, 21, is an account of two children delivered eight days after one another.

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COLLECTION XXXVIII. Of monstrous births. [Vide Part. i. Book iii. Chap. v. Sect. ii.]

CASEI.

HE 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-ftring; the veffels feparate as they enter the fkin of their bellies, and each child has its own. Both were fent to me by the fame gentleman, and are among my collection of feetufes, together with other ufeful preparations, collected from time to time for the information, and improvement of fludents, and now in the hands of Dr. Harvie, my fucceffer in teaching of midwifery.

SIR,

AGREEABLE to my promise, I have sent the preparation, which I hope will fully answer your expectation. The mother, who before had seven.

PART III.] SMELLIE'S MIDWIFERY,

feven or eight children, mifcarried with thefe at the end of twenty weeks, from her great uneafinefs, the imagines, in longing for a chop of bacoh. She was taken at first with a confiderable flooding, which was moderated by bleeding and anodyne medicines. The next day finding fome ftrong paints, her midwife was fent for, who delivered her in a few hours. Notwithftanding their fmallnefs, and one 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 flitched up again. They had no figns of life. The mother has fince had two fine children:

It is remarkable of the father of thefe children, that he had had no teeth before the age of one or two 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 Stirminster-Newton, in the county of Dorfet:

CASE ÌI.

Part of the skull wanting. From Mr. Pierce, of St. Thomas's Hospital, apothecary.

I T was a male child, of an uncommon fize in his body and limbs, with very broad shoulders, and a short thick brawny neck. The head was fmaller than those of most infants that come in due feason, 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 fkull 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 were wanting the os frontis on the fore part, and on the back part almost the whole of the occipitis. The offa bregmatis 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 pushed out in divers places by the brain, fo that it made an unequal furface for want of bones to 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 occasion of this difaster, is as follows :-- When the was near two months gone with child, the was grievoully frightened with thinking on Lord Lovat; who was that day to be beheaded. Her husband was gone to fee the execution amongst the crowd on Tower-Hill; and when the news came to her hearing, that a fcaffold was fallen down, by which accident many people were hurt, and fome killed on the fpot, the immediately feared that her hulband might be of the number, and was greatly affected. While she was under this dread and apprehension, an officious idle woman came to lier and faid, that a friend of her's, for whom she had a great regard, was killed on the spot, and that she faw his brains on the ground ; upon this the poor woman put both her hands on her head in great agony, and immediately fainted away.

CASE I.—Philofophical Tranfactions, N° 65, p. 2096, an account of a monitrous birth, by Dr. Durfton, which had two heads, two neeks, four arms, and four legs, perfect and well fhaped; but only one trunk. There was no appearance of lungs; and only one large heart, one mid iff, one umbilical cord, one large liver, one flomach, four kidneys, two urinary bladders, two wombs. There was only one color, which terminated in two inteffina recta. It weighed eight pounds and a quarter; and the length from head to foot was full eight inches and a half.

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CASE II.—There is another monftrous female birth by Dr. Samuel Morris. N° 138, p. 961. 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 just breathed.

CASES III. and IV.—Another account of a double birth, in which the children were joined at the breast. No. 2, p. 21. They did not wake and fleep together. They also cried, sucked, 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 must furvive the other; but both happened to die together.

CASE V.—A monstrous birth from Mr. Robert Taylor, much of the fame kind as case iii. and iv. in the same Transactions, N° 308, p. 2245.

CASE VI.—Philofophical Transactions, N° 453, p. 837. A monflrous 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 on monfters, by Dr. Supervile, Philosophical Transactions, N° 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 molt of which the cerebrum and cercbellum were alfo wanting; those that were born alive died foon after the birth.—Vide N° 99, p. 6157 N° 2 26, p. 439. N° 228, p. 553. N° 234, p. 717. N° 251, p. 141. N° 320, p. 310.

In the Philosophical Transactions, N° 487, p. 325, a letter from John Huxham, M. D. to C. Mortimer, M. D. concerning a child born with an extraordinary tumour near the anus, containing some rudiments of an embryo. In the Philosophical Transactions, N° 472, p. 10, an observation of a spina bifida, commonly so termed, by Geo. Aylett, surgeon, at Windsor.

In the Memoirs of the Academy of Sciences at Paris, M. 1701, p. 112, is an account of a fœtus found in the ovarium of a woman.—In the fame, H. 1703, p. 43, an account of a puppy whelped without a gullet; a circumftance proving that the fœtus could not be nourifhed but by the funis. In the fame H. 1711, p. 26, defeription of a fœtus without cerebrum, cerebellum, or fpinal marrow.—Id. 1712, p. 40, of a male fœtus at its full time, which had neither brain nor fpinal marrow, and which lived 21 hours, and took fome nourifhment.—Ibid. 1732, p. 369, of a monftrous fœtus with two bodies, the one male the other female.

In the German Ephemerides there is a great number of historics of fuch monstrous productions. Vide also Ruysch.

From Mauricean.

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 wen. This had a production like a tail which reached 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,

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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, which came off cafily ; and the monftrous figure might be imputed to the diforder of mind and body which a great fright or vexation the mother met with in the beginning of her gestation had thrown her into. In page 301, and observ. 363, he mentioned his having delivered a woman of her first child, which had all the fleshy or mufcular parts of its body quite hard and fcirrhous. In obferv. 118, and page 63, he gives an account 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 fubstance; there appeared likewife the inferior extremities of the occipital bones, and the two eyes very prominent. Its feet were turned inward. This monftrous conformation was afcribed to great fatigue in a journey.---He mentions having feen at the fair of St. Lawrence, two male children dead, whole 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. 14, gives feveral cafes of mutulations and deformities in children.

COLLECTION XXXIX.

The Cæfarian section performed on the dead as well as the living subject.

[Vide Part i. Book iii. Chap. v. Sect. iii.]

NUMB. I. CASE I.

WAS called by a midwife to a woman who was attacked with a violent flooding; but fhe being unwilling that I fhould examine, and the difeharge being stopped before I reached the house, I ordered a mixture of the tinctura rofarum, and liquid laudanum, to be given as there should be occasion; and defired them to fend for me if it should again return. She was within a fortnight of her full time ; the discharge was sudden, in a large quantity, and foon stopped; she 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 position for the delivery, she fainted away, was thrown into convulsions, and died instantly. As there were none but the hufband and nurse prefent, I immediately fent for an apothecary, who lived next door. All the by-ftanders being fully convinced 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 extension of the uterus. I then made a large opening in the uterus alfo, which was not a quarter of an inch thick. A large quantity of waters were immediately difcharged into bafons, in all about two quarts. I then extracted the child, which was large and plump, but had no figns of life, and 3 K Z

and feemed to have been dead feveral hours by the fliffnefs of the joints. I now leifurely examined the uterus and fecundines. The uterus and the woman's body feemed to be quite destitute of blood; for scarce one drop appeared on opening the parts. I feparated the membranes flowly, which adhered to the infide of the uterus. In this operation, I perceived numerous filaments, like hairs, that were extended; and in feparating, fome fhrunk into 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 breadth of it lying over the os uteri. I then alfo feparated the placenta, and found filaments about the fize of hogs' briftles, fhrinking in as the former. All this part of the placenta looked florid, but that which was difengaged, and over the os uteri, appeared livid, and split in the middle; which probably was the occasion of the child's death, by allowing the blood to be discharged from the placenta. The woman had easy labours in her former children. The os uteri was thin, foft, and open to the breadth of half a crown. I dilated it with eafe, which showed, that if I had been fent for in the evening, she might have been fafely delivered. The head presented; but in the hurry, I did not then observe the position of the body.

CASE II.

THE woman was turned of 40, of a grofs habit, and had never bore a child. In the feventh mouth of her work had never bore a child. In the feventh month of her pregnancy fhe received a fall, that brought on a large discharge; which however, by proper management was foon reftrained, though it commonly returned on the least motion or exercife. About the middle of the eighth month I was called, when it had returned in larger quantity than before ; but it diminished by degrees, and foon flopped altogether. What feemed to me most necessary at that juncture, was to keep up her strength by a nutritive diet, confisting of the lightest kind of food. But being apprehensive 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 continued. After this fhe went on tolerably well, having now and then fome finall 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 being clofe thut, and extremely rigid. Two or three weeks before her full time, the 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 indifferently the preceding night, was faint and weak, and had fome fmall returns of the discharge, I defired a confultation with another of the profession; and the family being strangers in England, mentioned fome of the most eminent in my own way. One of the women proposed Sir Richard Maningham; but he being engaged, Dr. Sands was fent for; who gave it as his opinion, that it was still proper to support her strength by broths and nourifhing food, and more fafe to wait until the flight pains should bring on the right labour, than to use any violence to deliver her immediately, I was again called about nine o'clock the fame night, when the was taken all on a fudden with frequent faintings; in one of which the expired as I entered the room. This fudden alteration prevented me from making any attempt; and indeed, bad not this event happened, I should have been afraid of her dying in the operation, because of her grofs and

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and weak habit of body. Cafes of this kind require the utmost prudence and caution. I have faved many women and children by immediate delivery, when the patients were not very low and weak, or wore out with frequent loss of blood, and when the diferrage happened all on a fudden, in a good constitution, the parts being open, foft, and used to extension by a former birth; but when the constitution is gross, the parts rigid, and the patient weakened by interrupted floodings, I have always practifed the foregoing method, which has often been attended with fuecefs.

As foon as all prefent were fatisfied that this perfon was dead, I opened her abdomen, and having taken out the child, examined the uterus. 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. Having 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 first child, 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 deferibed in col. xxxv. cafe viii. and x.

CASE III.

T H E woman was above eight months gone with her fourth or fifth 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 almost 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 endeavoured 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 perfift in my endeavours. I told her friends the danger to which the would be exposed, 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 blood to be taken from her arm, directing her to keep in bed, and take frequently two spoonfuls of the following mixture:-Infuf. rofar rubr. 3v. Elix. vitrioli, gut. x. Syr. e meconio, 3j; and that a linen rag dipped in the following decostion fhould be put up the vagina :- R. Cort. granator. querci. flor. balaustior. rosar. rubr. a 3j. coq. in aq. font. q. f. ad Ziv. colaturæ, adde alum. rup. 3fs. vin. rubr. Jij .-- She was agam attacked with a flooding about eleven at night, and fent for the midwife; and though fhe was not at home, they delayed calling me till about fix in the morning. I felt her pulse, which I could scarce diffinguish : her extremitics were cold, a cold fweat had fpread all over her face and breafts, and the could hardly speak. I immediately ordered her a cordial julep, with tinctur. eaftor, and fp. falis ammoniae.; and in the mean time gave he: fome warm red wine. Her veffels were fo much emptied, that the flooding was ferous and much flayed. I ordered ligatures above the knees and elbows, and warm cloths and bricks to be applied to her feet and hands. All thefe steps were taken in order to recover her strength and spirits before 1 attempted to deliver ; but before my directions could be put in practice, the

fhe was taken with a violent convulsion, 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 pulfation felt at the heart. I rubbed the child's head with fpirits, flapped the nates, and shook the body to give pain and make it shrink. A nifus of this kind, operating on the nerves, fometimes ftimulates the heart to contraction, and affords an eafy admission of the air to rush into the lungs. I then tried to inflate the lungs, by blowing in at the child's mouth; but all these efforts were to no purpose, though made in less than four minutes after 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. I now examined more narrowly the following particulars :---On opening the woman, I found the parietes of the abdomen thin and tenfe from the ftretching of the uterus. I 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 peritonzum. The uterus, which was fully diffended with the waters, appeared through the openings, and ftretched the lips feveral inches from each other. I then opened the uterus, which was about three eighths of an inch thick ; there feemed about three or four pints of water contained in the membranes. When I came to examine the adhesion 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 introduced 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 flowly from the uterus; and here likewife appeared filaments rifing from the one to the other, as in the membranes; but as large as hogs' briffles. But there was a greater roughness or inequality, resembling small 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 quite exhausted. 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 polition of the placenta over the os uteri, which always happens when the placenta prefents first. The head of the child was turned down to the os internum.

Monf. Lamotte, in book iv. chap. xi. mentions fome eafes 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.

NUMB. I. CASE I.

Deferibed by Mr. Duncan Stewart, furgeon, in Dungannon, Ireland.

THE hiftories of the Cæfarian 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 labour

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, but 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, performed the Cæfarian operation, by cutting with a razor, first the containing parts of the abdomen, and then the uterns; at the aperture of which the 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 these she joined the lips in the manner of the stitch 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 the flowed me the wound covered with a cicatrice; but the 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 diftreffed with a fluor albus, for which I 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-affairs, and has frequently walked to market in this town, 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 needles which the midwife had left to keep the lips of the wound together. I perceived 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 inteffines. This child which I faw, was not extra-uterine; for feveral 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 diffance of Charlemont from Armagh, as mentioned in the laft part of Dr. King's letter, with Mr. Stewart's, it probably muß be the fame woman's cafe which both of them relate.

NUMB. II. CASE II.

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THE Cæfarian operation performed by Mr. Smith, furgeon, in Edinburgh, communicated to me, and inclofed in the following letter by Dr. Adam Auftin:-Sir, Inclofed I fend you the cafe of the woman that underwent the Cæfarian operation. The only remarkable circumflance in it is, that the impregnated uterus may be cut without any confiderable hæmorrhage; but it is fuch a dangerous operation, that it ought never to be performed if there is the leaft probability of bringing away the child in any fhape. I was prefent when Mr. Smith performed the operation, and recollect the fudden contraction of the uterus, which I fuppofe prevented the hæmorrhage. Your's, A. A. I was

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 least women I ever faw, and prodigiously deformed. I touched her, and found fomething in the vagina fo large, that I at first took it for the head of the child; but foon found I was miltaken; 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 first took for it proved to be the os coccygis of a very extraordinary fize and fhape, turned inward quite acrofs the vagina, and reaching almost 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 state ; but were depressed inward, fo that I could fearce get up two fingers betwixt this monftrous os coccygis and the offa pubis. The woman being much fatigued with pains and want of fleep, I ordered an opium pill to procure reft. I visited her next morning, and found she had shept fome hours; but after the awaked, the had had violent pains .--- Upon touching, I found the os uteri a little more dilated, fo that I could feel about the breadth of halfa-crown of the child's head .--- The constriction of the parts was fuch, that it was impossible to deliver her in any manner; I therefore endeavoured, with all my strength, to prefs downward and backward the os coccygis; but in vain. I then told the women that were about her that it was impossible to deliver her; they begged of me to try any method however defperate. One of them proposed a crotchet ; but the passage between the bones of the pelvis was fo narrow and fo crooked, that it feemed to me abfolutely impossible to bring away a child in any fhape through them. I promifed to pay another vifit foon, and to bring fome of my brethren along with me, and to give her all the affistance we could. Accordingly feveral of my brethren visited the patient along with me, viz. Dr. John Lermont, Mr. Drummond, furgeon and man-midwife, &c. who were unanimoufly of opinion that the child could never be brought through the vagina, and that the only chance the 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 reflections afterward, we repeated in the ftrongest terms, the great dan-ger the woman would run in the operation, and that possibly she might die in our hands; but they were refolved to run all rifks.-Accordingly ten at night was appointed for the operation. The following gentlemen were present; Dr. Monro, professor of anatomy, Dr. John Lermont, Dr. James Dundas, Mr. Drummond, Mr. Ofburn, Mr. Gibson, Mr. Douglas, furgeons.

The inftruments and dreffings as follow:—1. A common fealpel. 2. Á pair of crooked feiffars. 3. Two needles threaded. 4. Four large needles threaded for the gaftroraphia. 5. Scraped lint. 6. A large comprefs, napkin, and feapulary. 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 body being fecured, I feated myfelf at her right fide. I drew a line with ink about fix inches in length, parallel to the linea alba, and four inches diftant from it, in order to avoid cutting the mulculus reftus. 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 mulcles and peritonzum, fo as to get in the forefinger of the left-hand; upon which, with the crooked feiflars, I enlarged the wound upward and downward, equal to the black line I had made in the

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the fkin. The epigaftric artery was opened, which I immediately flitched. I then cut into the uterus, 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 fome coagulated blood. The child was dead but quite freth: I reduced a little of the gut that came down, and made the gaftroraphia at three flitches without any peg. After the first flitch the gut gave me no more trouble. I covered the wound with foft pledgets, applied a large comprefs, and over all the napkin and feapulary.

The poor woman bore the operation with great courage: After the was put to bed the took a quieting draught with laudanum, and a bottle of emultion 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 before I got to her; the had not flept, but otherwife was tolerably well. Next day I vifited her, the told me the had fome flumbers in the morning. About 12 o'clock the complained of ficknefs at her ftomachs, with an inclination to vomit; her pulfe was then very frequent and fmall. She gradually grew weaker and weaker, 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 opened.

In the Memoirs of the Academy of Surgeons, at Paris, which are now translated, and published by Mr. Neal, furgeon, of the London hospital, there are a great many cases, and also the disputes for and against performing the Cæsarian operation on women when alive.

RF COLLECTION XL

Of laceration.

[Vide Part i. Book iv. Chap. i. Sect. i.]

NUMB. J: CASE I.

W A S called by the friends of a young woman in Park-Street, who had been delivered of her first child by her aunt, who was a midwife in the country at fome distance. The fifth day after delivery, the nurfe had alarmed the young creature and friends, by telling them that the was tote. I examined and found that the frænum labiorum was rent, but not the fphincter ani. They were all exclaiming against the midwife. I told them that fuch things would fometimes happen even to the best practitioners, that there was no danger, and that the parts would recover and contract. The great anxiety of the patient was on account of her husband, who was then abroad; she feared that this misfortune would cool his affection. I made her easter, by assuring her, that if she kept the feeret, he would know nothing of the matter. I have indeed had cases, though feldom, in which this accident has happened; and from knowing that it commonly occasioned great anxiety to the patient, I spoke privately to the nurfe, as in the following case.—

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CASE.

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PART III.

CASE II.

I ATTENDED an elderly woman of her first child; the head was large, the perinæum was largely stretched and very thin. I held the flat of my hand against 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 my 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 case. I told the nurse the misfortune, but defired her not to mention it, because it would make the patient uncasy, and give her (the nurfe) much trouble. I affured her the parts would recover, and no bad confequence enfue.

I was defired by Dr. Simpfon, in Spital Square, to vifit a woman whom . another practitioner had delivered, and where he had flitched the peri-nxum after it had been rent in labour. The pain and inflammation were very great, and the flitches did not feem to be of any fervice. I therefore advised to take them out; the patient was easier, the inflammation abated, . and the parts recovered.

CASES III. IV. and V.

WAS called by a midwife to a woman on the fifteenth day after delivery. The perinæum, vagina, and rectum work to rectum. The perinæum, vagina, and rectum, were toren into one about the length of two inches, which prevented the retention of the faces. The edges of the lacerated parts were beginning to fkin over. I attempted with fciffars to pare the edges, as in the hare-lip, but could not poffibly hold the parts to as to effect this purpose. I then armed a lancet, and with the point fearified them, and with great difficulty made two deep flitches through the vagina and rectum, and two in the perinzum ; but in two days this brought on a large inflammation, and the flitches all tore out. The parts digested and skinned over, but did not cement or join together; however, they contracted in fuch a manner, that in three months after, the 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 discharged 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 feveral days before I was called, fo that I was certain the openings into the vagina proceeded from one of the mortified floughs caffing off from the parts. I tried in the first to make a future to bring on an inflammation, fo as to contract the opening, but could not fuceced; and they continued in that miferable fituation.

WAS called by Dr. Thomfon, in Camberwell, so affift-him in deliver-I ing a woman where the arm of the child prefented. He told me that the woman had leen fo toren in a former delivery, that she could with difficulty retain her excrements. Some time after her recovery, we exa nined the parts, and advifed with others, but found it was impossible to pare the parts fo as to get them to unite with the future. Belides, the vagina and rectum, where the laceration ended, felt fo thin that they could

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not join at that part. One of my pupils told me he had fueceeded in a cafe where only the perinæum was toren, by making immediately the twifted future, as in the hare-lip; however, as rents of the perinæum only are of little confequence, I never tried that method, imagining it dangerous to expofe the woman fo foon after delivery; and where the vagina and rectum are toren into one, it is impossible to use the twifted future. This last cafe is of more confequence, on account of the involuntary difeharge of the fæces; though in time the parts by degrees recover in fome measure their retentive faculties.

CASES VII. and VIII.

A WOMAN, from a difforted pelvis, had loft her child in a former labour, and was in labour of the fecoud, which proved tedious alfo. I was e lled, and just as the head was delivered, entered the room; but as the child fluck at the fhoulders, I delivered the body in a fucceeding 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 smaller, and the os uteri was a little toren alfo on that fide. This being at fome diftance in the country, I defired fhe would fir as little as poffible. I was afraid of the worlt from the laceration of these parts. The child was dead, 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 have 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. These might bring on a mortification sooner in the uterus, by the inflammation at that part in confequence of the rent. I must except, however, cafes x. and xvi. of eol. xxxy. ... Vide alfo col. xxxi. cafe xxviii. col. xxxiii. No. ii. cafe ix.

A woman about 40, was in labour of her first child. She had been ricketty when a child, and for feveral years was troubled with an afthma, and had recovered 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 days in labour; the membranes were not broken, and no waters could be felt; the head prefented, and was fqueezed down into a very narrow pelvis. She was much funk, and her pains diminished. During the time when the pains were ftrongest, she felt as if something in her belly had toren or given way on a fudden, and as if her belly was grown flatter, and lefs firetched. The pelvis was fo narrow, that there was a neceffity to deliver by opening the head, and extracting the child with a crotehet, as directed above. On introducing the hand to deliver the placenta, the uterus was found toren at the fundus, and the inteffines pufied down. The placenta was cautioufly delivered, and the inteffines returned. The uterus felt lax; there was no great flooding. In order to avoid reflections, this accident was kept fecret. The toren part was fo large as to admit the hand to pafs it. She feemed perfectly free from pain, but very weak, had no vomitings, convulfions, or flooding, but died ten or twelve hours after.

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GASE.

[PART III;

CASE IX.

In a letter from Mr. ----.

A BOUT two months ago, I was called to a poor woman who had been in travel for eight days. When I came, the midwife, a perfect goddefs with the good women, had left the unhappy woman with this expression, "That she had no travel-pains, and would not be delivered before she had more pains." But when I came, I found her in the lowest condition a woman could be in and alive; for I could not perceive any pulfation of her arteries. Much against my inclination, I was perfuaded by fome of her friends, and after examination found the os tineæ fo much dilated, as to admit four of my fingers. I found likewise the chin of the foctus prefenting, and refting on the os publis of the mother. The waters were voided long before. I immediately endeavoured to grass 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 efficies. She had been frightened the day she was first taken in labour. According to your prudent advice, I spoke nothing of the matter, but pronounced her a dead woman, and she accordingly expired in lefs than fix hours after.

Lamotte, book 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 just to admit the end of the little finger.—In the Memoirs of the Academy of Sciences, H. 1724, p. 36—52, are cafes of lacerations of the womb in delivery.—Mauriceau, in obfervation 577, gives an account of a little woman who he faw two months after fhe was delivered, who had an involuntary difcharge of urine from a long and tedious 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.—*Vide* Lamotte, book v. chap. v. on contufions and lacerations.

NUMB. II. CASES I. II. and III.

Inflammations of the pudenda, &c.

WOMAN 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 days difappeared entircly.

The day after a fevere and tedious labour, the external parts of a woman in her first child, were so excessively fwelled, that the could neither make water nor go to stool, although the had an inclination, and had tried frequently. I preferibed the fame method as above; only instead of the emplient ointment, I advised a large pultice of bread and milk to be applied and renewed after every stuping. Next day the fwelling was so abated, that the patient made water freely, and went to stool; and the whole complaint, by the continuance of those applications, went off by degrees, so that the woman recovered,—*Vide* collect. xiv, No. iii. cafe iii.

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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 circumstance 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, which still continued, that the uterus was not affected. She had also 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 fpirits of wine and fal ammoniac, with which the parts were frequently fluped and fomented. An emollient cataplafm of bread and milk was applied; after every fomentation the fwelling and pains abated more and more. About the ninth day feveral mortified floughs caft off, both from the labia and vagina. The cataplasms were continued, and a large doffil dipped in digeflive, and kept in the vagina, to prevent contractions or coalitions, The parts recovered.

CASES IV. V. and VI.

Inflammations of the uterus and neighbouring parts.

B EING called to a woman on the third day after delivery of her first child, and finding that she complained of much pain and hardness above the pubes, I examined the abdomen with the hand below the bed-clothes, and found the fubstance of the fame harder and larger than it usually 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 against the lid of a high cheft; that fhe 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 ftill was a plentiful difcharge, and but little fever. I imagined that the complaint proceeded from the external parts that had fuffered from a contusion, by the imprudent forcing them against fo hard a fubstance; her pulse being a little quick, she was bled in the arm to the amount of about fix ounces. 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 fresh cow-dung, fostened with fresh butter, was laid all over the abdomen. These were the only remedics then to be had. I gave her ten grains of the pil. Matthæi: she had a pretty good night; but when the effect of the opiate was over, the pains returned in the morning. The abdomen was again fluped 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. There applications were repeated 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 fwelling there, which the felt with her hand. She was a lean woman: I felt the uterus contracted like a reund ball; but on the right fide a fubftancee about the fize of a goole-egg; from this proceeded a round and long fubftance about the thickness of two fingers, which ended at the groin of that fide; the examination of these particulars gave her great pain. Much the fame method was used to this woman as in the former cafe, viz. venefection, cl; fters,

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clyfters, fomentations, and emollient cataplaims; befides proper management as to the fix nonnaturals, and keeping her in breathing fweats. The fwelling on the right fide diminished; but she was not free from pain till after the twentieth day.

A gentlewoman in her fecond child had been delivered by a male practitioner, who gave her great pain in delivering the placenta; and this has continued more or lefs ever fince. I was befpoke to attend her in her next labour, when the had an eafy time; the placenta came down of itfelf; but in order to fatisfy her and myfelf, I introduced my hand into the uterus to examine. I found all found on the infide; nothing of any kind of tumour, hardnefs, or unequal contraction to account for the violent pains the formerly complained of. By proper care and management 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. I have delivered her three times fince, and her labours have been fale and eafy. She was always free from the pains for three or four weeks after. It is also remarkable, that the was always eafter when with child ; from which circumflance her hufband ufed to alledge that he was the beft dector.-The pains were moftly on the right fide toward the groin, but they extended quite round her back and loins. The principal phyficians in London were confulted from time to time; and the tried many different remedies; including the cold and hot baths, with all kinds of anodynes and evacuations; but fhe was not in the leaft relieved, neither could any of the profession find out the caufe of the excruciating pains; which in general pafied for a nervous rheumatifm. Finding her free from thefe pains after delivery when the kept in bed, and before the went abroad, I after the next delivery kept her longer in bed, and in breathing fweats; hut notwithstanding this caution, the pains returned and did not abate their violence till the was again with child.

A violent inflammation of the uterus, an imposthume forming, and discharged at the navel.

WAS ealled to Mrs, S----, in Holbourn, who came on purpofe I from the country to be delivered of her first child. The child prefented fair, yet the was in strong labour for five or fix hours : the night was cold, and the over-reached and strained herfelf too much, by hanging on women's fhoulders and backs of chairs, and was at the latter end quite unmanageable. She would not go to Led when it was neceffary ; but tumbled about the floor. At laft the was falely delivered of the child and fecundines; the bed was in a large closet with no fire-place in it. She was much better next day than I expected ; but complained of pains in her back, arms, and haunches, from ber over-firainingthefe parts in time of labour. Her nurfe being taken ill, could not attend her fo much as was neeeffary; fo that the eaught more cold, and the perfpiration flopped. She was attacked on the third day with viclent pains in her belly, and had no appearance of milk in Ler breafis : in confequence of her taking a fudorifie and criate, fie refled better, fweated much, and was eafler next day. The discharge of the lochia was in fu flicient quantity; but her pulse was low and quick. The pains returned at night; fhe had little reft, and did not Iweat.

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On the first day a hardness and swelling had been perceived above the os pubis, and the pain increased. I ordered eleft. mithridat. Dj. to be taken every eight hours, with the following draught :--- R. aq. einnamom Zifs. Cinnamom. vinos. 3 fs. Tinct. caftor. fp. cor. cervi, a gt. xxx. Syr. croci. 3 fs. I also preferibed a puregorie draught to be taken at night. R. A7. alexiter. fimp. Zifs. Nucis Molchat. vinos. zij. Tinft. paregor. gt. xxx. Syr. e meconio. Zfs. She had no drought; her pulfe was low, and the was naturally of a lax habit of body; the refted better and had plentiful fweats; but the lochia had a bad fmell, and I fufpected that a gangrene was beginning. I ordered her belly to be fomented with bladders, filled half full of water, as hot as the could endure it. The bolufes and draughts were continued; her pains and tenfion of the belly diminified; the difcharge of the lochia increased; as the had pains in her back, and was coltive, I ordered an emollient clyfter with zij fal nitri in it, which gave her two motions. This relieved the pains confiderably; but on the fixth night they returned, and the fwelling and hardness increased on the left fide as high as the navel. The pain was fo acute, that the took two of the paregoric draughts in two hours before the was relieved. This method was continued till the eighth day, when the was taken with a violent loofenels. She feemed at first relieved by the shools of the swelling and pain ; but as they weakened her much, I was obliged to check them by ordering ag. cinnam. fimp. Ziv. Cinnam. vinos. Zj. Elect. e fcordio. Zfs. Syr. e meconio 5]. four spoonfuls to be taken every two hours, or as there should be occafion. Her common drink was rice-gruel, with red-wine, and the white decoction; the had the paregoric draught repeated at night; the loofenefs went off; the refled and fweated that night, and was tolerably eafy next day; but the fwelling and hardness 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, about two or three or four in a day; but when they recurred too frequent, the former mixture was repeated, with the decost. alb. She frequently took hartshorn jellies and broths, to keep up her ftrength. All this time the had no cold fhiverings, although I fuspected from the feventh or eighth day that an impollhume was forming : but I was in hopes, as there was a large discharge of the lochia, of a reddish colour and good smell, although it did not diminist with the loofe flools, yet it might in time carry off the diforder. This, however, did not happen. An abfeefs broke at the navel on the twenty-ninth day; and a large quantity of matter was difcharged ; this relieved her of all her pains ; but every now and then, when the difcharge ftopped, the tumour and pains returned, and were relieved by the matter forcing its way afresh, or dilating the opening. The discharge continued feveral weeks, by which the was much weakened; but at laft the recovered.

CASE VIII.

A S there are feldom inflammations in the uterus without obstructions of the lochia, and feldom obstructions of the lochia, but there must be more or lefs of an inflammation of the uterus, they might be joined together; but as I have planued cafes to illustrate the first Part, I shall fo method fake give fome in this place, as well as in the other.

I was called to a woman on the ninth day after delivery of her first child. The labour had been tedious, but fafe; for three days the feemed to be in a good way; but her attendants imagining the ought to be fupported with cordials.

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cordials, gave her punch for her 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 fhe was much better.—I found her pulfe 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 fhe was in imminent danger, and that the reafon of her pains abating proceeded from a begun mortification of the uterus. The friends were much furprized when I told them of the hazard, for they imagined fhe 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 weaknefs, I am afraid could have been of little fervice, I ordered fome warm medicines and fomentations, viz. first warm stupes with the aromatic herbs, and a large epithem of theriac. venet. applied to the abdomen; and internally a mixture, four spoonfuls to be taken frequently, of aq. pulegij, theriacalis, \bar{a} žiij. Syr. croci. q. f.

COLLECTION XLI.

[Vide Part. i. Book iv. Chap. i. Sect. ii.]

N U M B. I. C A S E S I. II. and III.

ATTENDED and delivered an officer's lady of her first 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 fweat as foon as poffible; and I enfarged 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 neverthelefs recovered very well; and the declared, that as the was refolved to follow the camp, the defigned to wfe herfelf to that way of life. I told her, that although fome might efcape in cafes of extreme neceffity, yet many no doubt had fuffered on fuch occafions; and I observed, that women used to hard labour, and the inclemency of the weather, would fuffer lefs than those who were bred more delicately. About an hour after I left her, fhe was taken with violent pains in the abdomen, and a cold shivering; on which the nurse undressed 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 defired 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 nurse 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 bcd.

A foldier's wife, told me that fhe was delivered of a child in a wood at Dettingen, in time of an engagement; after which fhe was carried in a cart with others, in a rainy night, feveral miles. By the cold and fatigue fhe was thrown into a fever, and became delivious for fome days; days; yet recovered, though with great difficulty. Vide collection xxxiii. N° ii. cafe x.

In the beginning of my practice, I was fent for in a cold frofty night, to a poor woman at fome diftance in the country, who had been failely delivered. As fhe was exceffively cold all the time of labour, from the badnefs of the houfe, the want of clothes, and neceffaries of life, I gave her hufband fome money to go to an ale-houfe at a mile diftance, and bring from thence fomething comfortable. I left directions with the midwife to get her warm as foon as possible. The fellow got drunk, and did not return for feveral hours. I was told afterward 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 house, and at a diftance from any inhabited. teighbourhood.

CASES IV. and V.-The effects of bot air.

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COME years ago, when the fummer was uncommonly hot in London, I was called to a patient in labour. These was a fire in the room, which was fo hot and fuffocating, that the woman and attendants, and myself, were fearcely able to breathe. I immediately ordered the fire to be extinguished, 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 nurse had demanded a fire to warm the clothes or clouts, and put as many blankets on the bed as were used in cold weather. As she imagined warm and nourifhing things were best, she had also mixed plenty of wine and spicery in the caudle .- When I examined, I found the labour presty far advanced ; but my patient was very hot, having a quick full pulle, accompanied with a great drought .- Being afraid of the bad confequence of these 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 discharges being in a sufficient 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 shut, but the door left open. Next day, as it was still foorching hot, I ordered a window toward the north to be kept open, fome mallows were firewed in the room, and placed on the tables and drawers; flowers were fet in pots, and thefe were fprinkled every now and then with cold water. The patient being still hot and dry, and the pulse a little quick, 1 defired her to con-tinue the barley-water for drink, and also to take between whiles fome water-gruel, with a very little white-wine, and toafted bread, for nourifiment. By this method the fever was abated, and the recovered better than I expected .- During the fame tract of hot weather, I attended feveral patients in labour; and the fame cautious methods being ufed they all recovered. I remember, by way of precaution, I ordered each of them to lofe about fix or eight ounces of blood, to keep moderately cool, and take a light diet, more or lefs, according to their different conftitutions; these measures ferved also to prevent profuse sweats, such as happened in the following cafe.

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CASE IV.

W HEN 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 profufefweats. The difcharges had been in the ufual way for the firft 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 fweating. Her pulfe was low, and her fpirits were much funk. I called in another gentleman in this uncommon cafe. We ordered fmall quantities of the fpir. mindereri, with nitrous medicines, and a nutritive diet. Her body and extremities were firmly comprefied with linen waiftcoats and rollers; but all was to no purpofe; the at laft grew comatofe about the ninth day, and expired.

NUMB. II. CASES I. and II. With refpect to cating and drinking.

I T is really furprizing to fee the follies of ignorant midwives and nurfes in their opinion about eating and drinking; from the excels of which many poor women have loft their lives. I was called by one of the firstrate midwives, to fee a shop-keeper's wife whom she had delivered the night before. I found her pulfe quick; fhe had enjoyed little or no reft, and complained 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 emptinels in her bowels, and keep the wind out of the flomach. I found the patient was naturally of a delicate conftitution; I faid nothing then, but ordered her to drink fre-quently a little barley-water inftead of ftrong caudle, and prefcribed an emollient clyfter, and there had the good effect to empty and affift digeftion. I afterward argued privately with the midwife on the lubject; and the was convinced, from what had happened, that the complaint proceeded from the patient being forced to eat against 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 these I have allowed to eat more or less of a chicken, or of other food of eafy digeftion, and they were not the worfe; but to those 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 diffilled 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 delivered about three days. When I arrived, they told me fhe had been int a great fever, and had violent pains in the abdomen for two days; but that now fhe was much cafier. I enquired particularly, and found that during labour, and ever fince, her drink had been moftly warm punch, three parts water, and one of brandy. She had an intenfe heat on the fkin of her arm, her pulfe was weak, low, and intermitting. The pains, from being violent, were fuddenly abated, and indeed quite zone. I then told her friends, that far from being better, the was in the moft imminent hazard of her life; that there had been a vio-

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a violent inflammation of the uterus, and that the pains abating on a fudden plainly indicated, that an incurable mortification was come on, and as her pulse had begun to intermit, she would soon grow delirious, and die in a few hours. My prognostic was verified, to the surprize of all present.

NUMB. III. CASES I. II. and III. Relating to Sleep and watching.

T was formerly counted dangerous to allow women to fleep immediate-ly 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 nurse and attendants resolved to keep her awake, by reading old romantic stories. I told them that any danger from sleeping, could only exist when there was a violent flooding ; but as that was not the prefent cafe, it was a pity to baulk her inclination. However, as they were fo much afraid, I promifed to flay by her with the nurfe. She accordingly flept found for two hours, and was much refreshed when she awoke. I have had many fuch battles with the affiftants, but always found that the fooner the patient fell into a fleep, the better fhe 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 first child. She had no ftoppage of urine, or fymptoms of a fever. She begged of me, if possible, 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 else could relieve her. He faid that opiates did never agree with her in her former complaints, or make her lleep when reftlefs. I answered, that I wanted only to ease the pain, and after that she would sleep of course, and that we must deceive her. I ordered a draught with 30 drops of the tinet. 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 the had taken the medicine. I have had many inftances of the fame kind, when opiates were administered properly, as mentioned in the latter end of part i. However, I have had also some few 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 wife in her first child. She was every way fafe and eafy after de livery; but could not fleep. I ordered a gentle opiate, which had no effect; but inftead of composing, gave her a giddi-ness, and prefented many spectres 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. cervi, gr. iij. to be taken and repeated occasionally. This had the defired effect, by which the got good reft; and it was the only remedy that procured fleep in her fucceeding deliveries.

NUMB. IV. CASES I. II. and III. Relating to motion and rest .- Vide No. i. safe i. of this collection.

WOMAN of a healthy conflitution, who had been delivered twice in A woman of a healthy constitution, who had in London, when big the country, came to live with her family in London, when big with child. I was befpoke to attend her, and the was fafely delivered. vifited

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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 evening and night before, and played at cards, and was to dine with the family; that fhe had done the fame after her former labours, and recovered much better than thole who lie in bed. I exclaimed against 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 fater by being too forward. However, she persisted in her old way, and recovered exceeding well; 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 see her till they sent for me on the fixth, when I found the pains and fever exceffive. She was immediately 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 the died the fame night .- Vide Nº ii. cafe ii. of this collection.—One would be apt to imagine, that this fatal cataftro-phe happened from her conftitution altering, and becoming more delicate by a city life.

A poor woman 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 the fourth day after delivery, was taken with violent pains and a fever that night, and with great difficulty recovered by bleeding and antiphlogiftic medicines.

A poor woman of a firong conflictution was delivered by us three times, and escaped without any complaints, though she was out in the fireet 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 those who have been bred hardily, will recover furprizingly; and also of fuch as are more delicately brought up, who, from a very fmall error in management, will be brought into great danger; but these are fufficient to illustrate what **I** have published in the first part of this work on that fubject.

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NUMB. V. CASES I. II. III .- Obstructions of urine.

WAS called by a midwife to a woman in the Hay-Market. The membranes had been broken many hours, and the head 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 laft as much as poffible. After informing myfelf of every thing relating to the patient, I found the had made no water for many hours, from which circumftance I concluded, that the foregoing pain must proceed from too great a distension of the vesica urinaria. I faid nothing to the woman, but bid her 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' fhe shrunk from me, I was obliged to take the affistance of the light of a wax taper, and drew off a large quantity of water. The pain immediately went off, and the was delivered foon after. I have had feveral cafes of the fame kind, in which the women were relieved in the fame manner. 'Sometimes I could introduce the catheter without inspection; but if I found it not eafily performed, I chose 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 the had paffed urine feveral times, but with fome difficulty. At latt it had ftopped for about twelve hours, and the was in great pain. The catheter paffed with difficulty, from the parts being inflamed. She was relieved on the difcharge, but the obftruction returning, I was obliged to repeat the operation feveral times, and at latt there was a large difcharge of pus from the urethra. This reduced the fwelling, and carried off the preffure 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 first child. She complained of excessive pain in the abdomen. I enquired of the patient if the had made water during labour, and fhe told me fhe had made great quantities. I examined the abdomen, and found there was not another child, and the nurse 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 still in great pain, and had got no reft all night. I then faid I was furprized that the complaint was fo obstinate, especially as she had passed to much water in time of the labour, and enquired if the had made any during that night. The midwife told me that the was certain the had made no water all the time of her labour, which was very tedious, and that she had passed none since. I then found the patient had mistaken the waters from the uterus for her urine; and that all these pains proceeded from the distension 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 she 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.

CASE IV.-Costiveness.

T is a great happinefs, if patients are coffive before 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 been 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 injected, which brought off fome hard fæces : this gave room for another clyfter, which relieved the patient.

CASES V. VI. and VII.-Purgings.

A WOMAN was delivered all on a fudden in the feventh month. She was coftive, and the child paffed fo eafily, that fhe had no ftool at delivery. As fhe was next day uncofy on that account, I defired the nurfe to administer a clyfter of water-gruel with a little oil; without my knowledge she had put in a large quantity of salt. This gave her a passage; but at

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at the fame time brought on a violent purging, which weakened her exceffively; but at last it was slopped by repeated opiates.

I was called to another to whom a elyfter of the fame kind had been given foon after delivery, which 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 18th or 20th day after delivery, when the feemed out of danger, was taken all on a fudden with a violent purging, which immediately funk her very low; this was foon cheeked: but then her legs began to fwell. Her ftomach alfo naufcated all food. Being called to her aftiftance, I declared her in great danger; and advifed the friends to take the advice of a phyfician, as it was not now my province to preferibe. D! Mead vifited her next day, and ordered medicines to invigorate the body, by quickening the circulation of the blood, and contracting or ftrengthening the fibres of the bowels, fuch as confect. cardiaca. aq. cinnam. &c. Neverthelefs the langour continued, and the fwelling in her legs increafed 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. N° ii. cafe vii.—I could give more cafes of coftivenefs and purgings; but I refer the reader to the directions in part i.

NUMB. VI. CASES I. and II. Paffions of the mind.

I ATTENDED 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 accident until we had taken measures for her fafety, 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 at a diftance; fue feemed fatisfied; yet the pains immediately ceafed. And although the fire was extinguished, 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 first enild, Every thing was in a right way 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 neighbourhood, who told the patient, that fhe was in the utmost danger, if she 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 these difmal accounts 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 bluftering practitioner alide, and told him my opinion, that the woman was in no danger; but by time and patienee I hoped would be fafely delivered. Nay, I threatened to have him called before the college if he infifted on any violent operation : then he quitted the house with his affociate. After this departure we had time to foothe and encourage the woman. As fhe had got little fleep we gave her a draught with 30 drops of the tinct, thebaic. and the midwife delivered her fafely next day.

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COLLECTION XLII.

[Vide Part i. Book iii. Chap. i. Sect. iii. and iv.]

NUMB. I. CASES I. II. and III.-Floodings:

ATTENDED a woman in a tedious labour, who was at last fafely delivered. A large discharge of blood followed the placenta, which did not abate as usual; but continued fo as to fink her spirits, and endanger the patient's life. Her countenance turned pale; and her pulse besame low. 1 immediately gave her 15 drops of liquid laudahum, and applied cloths dipped in vinegar to the pudenda. The difcharge diminished; but continued to flow rether fafter than I judged was fafe in her weak condition. I gave her five drops more in about half an hour after the first, which had the defired effect, by throwing her into fleep, and reftraining the flooding. She recovered tolerably well. The next time the 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 she began to doze a little betwixt the pains. She was foon delivered, and had a moderate discharge, 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 most fuccessful, when called in time, and when the veffels were not too much emptied.

A woman whom I had fafely delivered, after a tedious labour, feemed to be in a good way, but of a weakly conffitution. In about an hour after they fent for me. I was told by the nurfe, that when moved to place her right in bed, the was taken all on a fudden with a violent flooding, fo that it ran over the bed to the floor. I ordered 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 conffitution, or from great floodings before, 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 attacked by fuch fatal difcharges.

I was called by a gentleman, to affift in a cafe wherein the patient was in time of labour attacked with a flooding, occafioned by part of the placenta being detache. I 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 fleep, I advifed him to give her a fimple draught with tinct. thebaic. gt. xx. This foon had the defired effect; fhe flept found between every pain, the flooding abated, and in a little time fhe was fafely delivered. Vide Lamotte, book v. chap, iv.

NUMB. II. CASES I. and II.-Relative to after-pains.

BEING called to a woman foon after delivery, who was in great pain at intervals, and imagined fhe had another child to bear, I examined and felt the os uteri contracted; the uterus indeed felt larger than common when I examined the abdomen, but not fo much as to induce one to believe it contained another fœtus. The midwife and nurfe affured me that the placenta came off without any violence. I ordered a composing mixture, with A66

with 30 drops of the tinct. thebaic. one half to be given prefently, and the remainder by degrees, as there might be occasion to relieve the pains and procure reft. This was in the morning, and the weather was exceffively cold. I called again in the evening ; flie was still in pain, but had dozed a little. She complained much of the coldness 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 also defired the nurse 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 chuse to order any more, being in hopes that this method would throw her into a plentiful fweat, which would relax the fibres, and affift nature to difcharge the coa-, gulated blood, or carry off the fpafms that might be the occasion of fuch violent after-pains. Next morning when I visited her, the nurse told me, that foon after my directions were followed, the patient fell into a profuse fweat; a very large coagulum was discharged', the pains went off, and she had a good night's reft.

I attended a patient, whofe child and placenta were delivered expeditioufly and fafely with a few labour-pains ; but foon after that the was attacked by fevere after-pains. I ordered a compoling mixture, as in the former cafe, to procure a breathing fweat as foon as possible. She got fome reft, fell into a gentle diaphorefis, and foine fmall coagula were difcharged. When I repeated my visit in the evening, the violence of the pains still continued; yet although fhe had not flept, fhe had undergone a gentle perfpiration, and her pulfe was become more moderate. I then preferibed a fimple draught with tinct. thebaic. gt. xx. the pains abated in the night, but returned in the morning, and grew more violent in the evening. The laft draught was again repeated, and administered the night following. The pains went entircly off on the fifth day, without any more clots of blood being discharged. Of these two cases, the first seems to have proceeded from coagulated blood, and the last from periodical spafms or irritations; for the common difcharges were in the ufual proportion. I have had many fuch cafes; but feldom any fo violent.

COLLECTION XLIII.

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[Vide Part i. Book iv. Chap. i. Sect. v. and vi.]

NUMB. I. CASEI.

The lochia obstructed in a woman delivered by Mr. Mudge.

[Vide Collect. xviii. No vi. Cafe iii.]

E ordered her, after delivery, to take fome of the nervous medicines. He was informed next morning, that the had none of the fits; but the feemed to be in a comatofe flate. She had taken the medicines two or three times; but continued in much the fame way, till toward evening, when the grew more fentible and the formed and the take caudle, he ordered mutton-broth. When he called next morning, he was told the had refted little all night, that the lochia had flopped, and the patient was delirious. He preferibed a fotus for her belly, and Dj. of pulv. troch. de myrrh. About noon the delirium increasted, and her pulfe grew very high; he then bled her largely at the ankle, and applied a blifter to each leg. An emollient clyfter was injected with the addition of 30 drops

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of ol. fuecin, and he directed that the thould fivallow a flight anodyne draught after the operation of the clyfter next morning. He found her quite infenfible. Her pulse, however, was more moderate; she had no difcharge with the clyfter, but had made water plentifully. The blifters rofe well; but as there was not the least appearance of her lochia, he ordered her to take the fainc quantity of the troch, de myrrh, with the former nervous mixture, every eight hours. The abdomen all this time was unatrended with tumour or induration, or any other fymptom that indicated the least tendency to inflammation. In the evening the feemed rather better, at night much mended, and the flept tolerably well. Next morning he found the fever entirely gone off, though the still rambled in her difcourfe. In this way the continued near a fortnight, having no manner of fever, till at last by imperceptible degrees she became more fensible; but the diforder left a pain in her head, which she did not lose for some time. He observes, that the delivery was the only expedient for carrying off the convultions, and that he had a cafe eight months after, wherein the lochia stopped in about eight hours after delivery, without ever returning, although he used all the means he could contrive to bring back the discharge, yet the fuppression was followed by no bad fymptoms of any kind.

$C A \cdot S E II.$

Obstruction of the lochia, from Mr. Mudge, Plymouth.-Collect. xxxvs Supplement to Cafe xv.

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A BOUT fix hours after delivery the lochia ftopped; the pulfe was very quick, and the countenance florid; the pain and tention of the belly increased. She had fome disposition to fweat; but could not be induced to keep her hands covered to encourage the diaphorefis. He ordered ten ounces of blood to be taken; a fomentation in a hog's bladder to be applied to the abdomen; an emollient clyfter to be injected, and one ounce of ol. amygd. to be taken once in fix hours; but all was to no parpofe; the abdomen twelled, the pulfe grew fmall and quick, the extremities cold and clammy, the uterus no doubt mortified, and the woman died in about 30 days after delivery. She had, it feems; three weeks before delivery, exerted her ftrength beyond meafure.

Mr. Mudge obferves, that he has been called to twenty preternatural cafes among poor women, for every four he has attended among perfons of higher rank; and thinks this difference may proceed from the poor being more liable to accidents in confequence of hard labour, and the various rifks they run.

CASE III.

Management of a patient after delivery. Brought from Collest. xxxiii. Cafe xvi.--Mr: Ayres

WHEN I called (which was the third day after) I found her pulfe low and quick, attended with a great drought, her fkin dry and hot. She had the evening before taken one of the bolufes and draughts; had flept little, and her flumbers were much diffurbed and broken. She complained that her head was pained and giddy; a circumflacce, which, as fhe was fo weak, I imputed to the opiate, which was fearee half a grain. She told me that no kind of fleepy medicines ever agreed with her 3 N

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conflictution. I ordered her to be kept as quiet as poffible, to drink frequently of barley-water to affuage her thirft, with now and then a little caudle; and at the fame time prefcribed the following draughts to promote a diaphorefis, and a better difcharge of the lochia.—R pulv. contrayerv. gr. xxv. Caftor. opt. falis fuccini, \bar{a} gr. v. Aq. cinnamom. fimp. 3ij. Sacch. alb. q. f. f. hauft. 6, quaque hora fumend.

4. She had got better reft this night, and there was a larger difcharge of the lochia; but the pain of her head continued; fhe alfo complained of pain in the lower part of her belly, with difficulty in making water; but on examining. I found her belly foft, no fwelling on the external parts, in the vagina, of the os internum. She had not fweated; and her fkin was dry and hot, with a quick low pulfe as before. In these circumstances I thought proper to proceed in the middle way, neither to order any medicines to raife the fever too high of fink her too low. She was preferibed the following:-R. fal. abfinth. 3fs. Suc. limon. 3fs. Aq. alexit. fimp. 3ifs. Pulv. contrayerv. comp. ∂ fs. Sacch. alb. 3fs. f. hauft. 6, quaque hora fumend.--R. aq. cinnamom. fimp. 3ivfs. Alexit. fpirit. cum aceto. 3j. Syr. caryoph. 3fs. 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.—R. fperm. ceti, zij. Ol. amygd. 3ij. Ceræ alb. zvj. Fiat cerat, extend. fuper alut. mammis applicand.— Her breafts were alfo fucked with glafs pipes, but would yield no milk. All along fhe got but little fleep; her fkin grew hot and dry, fhe had æ 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 fhe was weak, and had a fufficient difcharge of blood at her delivery, I dutit not venture to order bleeding, although fhe had a difficulty or opprefilion in breathing; neither would I venture to order opiates internally, but prefcribed the following epithem :—R. ol. caryoph. zfs. Theriac. androm. žij. M. pro emp. region. ftomach. applicand.

6. Finding all the complaints increased, and also the lochia much more diminished, I advised calling in more affistance; when Dr. Wassie was fent for, who ordered the following:—R. pulv. e chel. cancr. gr. xv. Croc. pulv. gr. iv. Syr. balf, q. f. f. bol. hac nocte fumend. cum hauft, fequent.—R. sperm. ceti, \exists i. Solv. in vitell. ov. q. f. lac. ammon. elix. afthmat. \bar{a} zij. Aq. alexit. spin. \exists is. Syr. balf. zij. f. hauft. repetatur eadem bolus mane cum hauftusfequent.—R. sperm. ceti, \exists i. in vitell. ov. folut. aq. alexiter. spin. \exists is. theriac. ziij. Lac. ammon. spir. balf. \bar{a} zij. M. f. hauft.

7. Her looks were wild, her steep was disturbed; and she had all the symptoms of a beginning delirium.—Mittr. fanguis e brachio ad žix. statim. R. sperm. ceti, zfs. solut. in vitell. ov. q. f. ol. amygd. d. syr. ex althæa, ā zij. Sal prunell. zfs. Aqua alexit. simp. žiss. Sp. c. c. gutt. vij. f. haust. quarta quoq. hora sumend.—R. decost. gum. arab. in aqua hordeat fac. spij. f. emulf. ex amygd. dul. & sem. 4. frigid. sal prunell. ziss. Syr. dialth. q. f. m. bibat pro potu tepefact.—She grew delirious, her skin was dry with an intense heat, the pulse quick and low, difficult respiration, the lochia entirely obstructed, had sometimes violent pains at the os externum, but no swelling or hardness of the bely, or on these parts.

8. She had cooling clyfters injected, which operated; fuch as decoff. commun. pro. enem. zix. Sal. Glaub. zj. Ol. oliv. ziv. Syr. rofar. folut. zifs. f. enema statim injiciend.—The draughts and emulsions were continued:

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nued; and the following were prefcribed :---R. fal. abfinth. Əj. Suc. limon. 3fs. Aq. alexit. fp. cum aceto, 3fs. Simp. 3ifs. Pulv. e chel. cancro. Əj. Sal. prunell. gr. xiv. Syr. croci, 3iij. f. hauft. 6ta quaq. hora fumend. appliceter veficator. inter fcapulas.

9. The delirium increased 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. fimp. 3vj. Alexit. fpir. 3is. Tinct. valerian. volatil. 3is. Margarit. p. pt. $\exists i$. Syr. balf. 3fs. f. julep. cap. coch. ij. vel iij, in languoribus.

10. She was now much weaker and infenfible, with a tremor of the tendons; the pulv. contrayerv. comp. was added to the draughts,—R. pulv. e' chel. c. comp. $\exists j$. Sal fuccin, vel croc. \vec{a} gr. iv. Confect. Raleigh. $\exists fs.$ Syr. croc. q. f. f. bolus 6ta quaq. hora fumend. cum coch. iij. Julep. feq.— R. aq. cinnam, alex. fimp. \vec{a} $\exists iij$. Aq. n. m. $\exists iij$. Sp. fal. vol. ol. $\exists j$. Margarit. p. pt. $\exists ij$. Syr. croci, $\exists fs.$ Cap. coch. iij. in languor. repet. enema. applicetur veficat. collo ad utrumque latus, pone 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. et emp. veficator. \bar{a} part. equal. She died on the twelfth day after delivery.

The above journal is inferted to fhow the formulæ of preferiptions used in fuch extraordinary cases. But those medicines are not to be preferibed indiscriminately by young practitioners, without proper advice of the more experienced.

NUMB. II. CASES I. II. III. and IV .- Complaints from milk.

PATIENT after the delivery of her first child attempted to fuckle A the third day, but the child would not fix its mouth to the nipple. The nurfe told me fhe had no nipple. I examined, and could not obferve any thing but the feeming veftiges where they ought to have been. The woman confessed, that when a young girl at boarding-school, she and her companions had imagined them to be warts, and pulled them off. She was obliged to give up the fuckling; but the breafts being turgid and painful, I ordered a pultice of bread and milk to be applied ; and endeavoured to procure a breathing fweat. Next day fhe was eafier; fhe 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 obstructed the ducts. She complained of an itching and roughnels 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 fweat. About the feventh day fhe had three loofe ftools, which carried off the milk without having any bad effect. The next time I delivered her, she tried again to suckle the child; which fixed so effectually on the parts, that it actually formed large well-fhaped nipples, and fhe nurfed that and two more.

I delivered a woman of her first 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 breasts grew hard, were fomented, and cataplasms applied, She was kept in a gentle breathing sweat. A nurse was procured 3 N 2 who 470

who had a ftronger 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 used, but to no purpose. One of the breafts ran out, but the other inflamed fo that an impostume 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 she recovered, by going into the country and drinking affes-milk.

Another woman had received a blow on one of her breafts, a little before fhe was delivered, which oceafioned a fwelling and hardnefs. After delivery, fhe tried to fuckle, but could not in that breaft. Every method was tried to difcufs the tumified, glands, but to no purpofe. The fwelling grew larger and harder, the inflammation increased, and turned cancerous, and at last deftroyed the woman.

COLLECTION XLIV.

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[Vide Part i. Book iv. Chap. i. Sect. vii. and viii.]

CASE I.—Of a prolapjus vagina.

HIS misfortune happened to a woman foon after a tedious labour; a round middle-fized peffary was introduced, and turned fo that the lower edge refted at the lower and back part of the vagina, betwixt the os externum and fundament, while the upper edge was fupported against the infide of the os pubis ; the mouth of the womb lay against 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, she fell with child; 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 supported by the upper part of the pelvis. The peffary, inflead of lying in the fame polition as when first introduced, was found lying up along the back part of the vagina, which it kept up; and the mouth of the womb hung down on the fore part of the peflary. This circumstance gave the first hint, that a peffary introduced, and laid in this position, was the best method for keeping up the uterus; for if the vagina is kept up, the uterus must in confequence be kept up alfo. The upper part of the vagina is attached round the lips of the mouth of the womb; and as the uterus naturally finks down into the vagina, one great advantage to married women is, that this method does not hinder them from cohabiting with their husbands. After the peffary was withdrawn, the prolapfus of the vagina returned, and occasioned the former uneafiness. It was again introduced, and laid up along the back part of the vagina, as in the laft method, which kept up the vagina as before, until the fell in labour, and then it was foreed 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 head came along, and then it was flipped behind the fame. She recovered very well, and fuckled the child.

C. A S E I.-Of a prolapfus uteri.

A Middle-aged woman had a prolapfus uteri. She had been formerly delivered of a child or two at the full time, and after that mifcarried twice, about the third month each. She again was pregnant; and

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at the end of the fecond month, had a fmall difcharge of blood from the vagina. She was bled, and kept her bed feveral days, by which it was restrained. The fame discharge returned the third and fourth month; at first in large quantity, but the last very inconfiderable. Being called to her about the middle of the fourth month, I found her in violent pain. On examining, I found the uterus pushed entirely out of the os externum, bigger than a man's fift, occasioned by a violent fit of coughing. The vagina felt as if it was about an inch protruded before the os internum; and all the vagina appeared to be inflamed and fwelled. I introduced my finger at the protrusion of the contracted vagina, which was just large enough to receive it a little way; but I could neither diffinguish the os internum, or any fubstance 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 after, a round middle-fized peffary 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 before this period, for two or three months, a large difcharge to the appearance of the fluor albus, and the uteras had prolapfed in that space three or four times; but being then fmaller, the could eafly reduce it herfelf. It being uncertain whether the was with child or not, it was reiolved to order only a cooling regimen, with some faline draught, and nitrous medicines, till the next period. By thefe means the cough and difcharge of the fluor albus were removed; fhe feemed perfectly easy, and was allowed to walk about in the houfe. At the end of the fourth month, she had, to appearance, a regular discharge of the menfes; the mouth of the os internum feit fwelled and more thut, which made it almost certain she was not with child. Being fent for about the middle of the feventh month, I found the had regular labour-pains; the os internum was fo open, that the membranes, waters, and head of the foetus, were regularly felt, and there was no difcharge of blood. As the os internum, though a little open, instead of being thin or foft, felt thick and hard, it was adviseable to order first bleeding to the quantity of eight ounces, after that two emollient clyfters, which difcharged a large quantity of fæces, 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 boiled chicken. The pains weat off for 24 hours, after which they returned; the os internum now felt much more open and foft; the membranes were pushed down with the waters, and the foctus was foon delivered; after which there was fome difcharge of blood. No violence was ufed to bring away the fecundines. As the placenta separated from the uterus, the difcharge increased, but not to any large quantity ; and in three hours the fecundines were forced through the os internum into the vagina. By pulling foftly at the funis, and at the edge of the placenta with two fingers, they were early extructed. She recovered very well. The child was very finall, and reared with difficulty.

Mit Oakay, of Birmingham, relates a cafe of a prolapfus uteri, which could not be reduced, but mortified.—He fays "I was called to a woman who gave the following account of her cafe; that affifting her hufband in lifting a weight that afternoon, the felt a lump fail out of her bedy. On which the fent for a mid sife, who endeavoured to reflere it into its place; but not being able, advifed to fend for me. Upon examination, I found the uterus out of the os externum, about the fize of a large man's fift, and the glands

out;

glands feirrhous. The patient was low, faint, and had but little pains. As reduction was impracticable, I directed emollient and difeutient fomenta. tions with pultices; and after fome days bled her in a fmall quantity, for the was too weak to bear the lofs of much blood. Her body was kept open, and, when reftlefs, quieted with opiates. Notwithitanding which, it increafed in fize, and after three weeks difeharged a thin ichor from its whole furface, and in about fix weeks the patient died."-The fame gentleman requested my opinion about extirpation by ligature, which he thought might have been eafily done, and which he proposed to the patient; but she would not fubmit to the operation. My answer was, that I could not refolve his question, as I never had any cafe in which it could not be reduced; but, no coubt, when a gangrenous appearance begins, and there is no hope of reduction, what he proposed should be attempted to fave the patient's life ; but fuch operations should have the concurring approbation of experienced furgeons; nor should it be undertaken but when the patient has strength, and the gangrene not advanced above the parts that are to be separated.

CASE III.-Inversions of the uterus,

R. G I F F A R D, in his cafes of midwifery, p. 176, mentions a delivery in which the uterus 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 inversion of the uterus.—Mont. Lamotte, lib. 5, chap. 10, and 11, deferibes an inversion of the uterus and relaxation of the vagina,—I was called to a woman, who died before my arrival. I found the uterus inverted ; pulled quite without 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 force.

Mr. Lucas, of Pontefract, was called to a woman juft delivered of a live healthy child, and found the uterus totally inverted, lying between her thighs, of the fize of a large foot-ball. The pulfe was weak 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 undertook and fueceeded in the reduction, afterward gave her gentle anodyne and cordial medicines, and left her in appearance better, and tolerably cafy. In about half an hour he was again called, and found her fpeechlefs, the pulfe imperceptible, clammy fweats, refpiration deep and flow, 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 excrefeence, till he examined it more ftrictly, and after feparating the placenta, reduced it into the abdomen.

CASES V. and VI.-Prolapfus of the restum.

T HE hæmorrhoidal veffels of a woman were 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 fphincler ani; and kept them up with a thick compress with my hand applied against the part every pain; but when the head of the child was forcing down they were again protruded, with a large quantity of hard excrement; and it was impossible to reduce them till the child was delivered, when I again replaced them; but next morning, when the made water, they were again forced 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 : the 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 pulhed out, and fo fwelled that I could not reduce the parts, though lubricated. I then ordered a fomentation, composed of the emollient herbs, in which were mixed fome vinegar and fpirit of wine. After the fomenting and fluping, I again lubricated the parts with warm oil, and at laft got them reduced, though with a great deal of force, and the patient recovered without another prolapse.

This cafe was a caution to me ever after, when the inteffine 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 fhe 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 occasioned thefe fymptoms, the fever abated, and fhe recovered better than could have been expected.

COLLECTION XLV.

[Vide Part i. Book iv. Chap. ii. Sect. i.]

NUMB. I. CASES I. II. III. and IV.-Impostbumesa

CHILD being delivered after a very tedious labour, the head had been moulded into an oblong form; and on the apex or crown 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 three 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 diminished, and was quite gone about the feventh or eighth day. I have had many fuch cafes, which were generally in a few days difcusted much in the fame manner.

Another child, from the fame caufe, had a large tumour on the crown or apex : it had continued feveral days; an emollient cataplafm had been applied; it broke, and difcharged a large quantity of bloody ferum mixed with pus. The child was weak and low, and another tumour formed behind the car, when I was called. The cataplafm was applied to that alfo; and as foon as there was a fluctuation felt, the tumour was opened with the fancet, which difcharged a thin pus; but the large difcharge of both reduced the child fo low that it expired in a few days.—This was the only cafe that I have feen of this kind, and it made me careful afterwards of fuch complaints, fo as either to try to difcufs the tumour, or prevent the extravafated fluids remaining too long undifcharged.

A child, on whofe head a tumour of the fame kind as in cafe i. was observed after delivery. The fame methods were used; but the fluctuation did not diminish, and the hairy scalp began to seel thinner. About the fixth 474

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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 compress dipped in the mixture mentioned in cafe i. and by gentle pressure, the fcalp and parts below joined or confolidated to one another.

A cafe of this laft kind happened, where one of the gentlemen that attended ed me was called. He felt a large fluctuation, on which pultices of bread and milk were applied warm; but this method not fucceeding, he had recourfe to me. I advifed him to make the opening as in the foregoing cafe, but to his great furprize, a large quantity of blood was difeharged. 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.—Vide 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 bones, full of matter, which difcoloured the fkin; and recommends (in order to prevent the abfcefs) compresses of linen dipped in brandy, &c.

NUMB. II. CASES I. and II.-Diflocation.

DELIVERED a woman by turning the child, and extracting it by the feet.—Vide collect. 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 accident 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 fhould be to every one, to examine carefully every part of the child after fuch deliveries. This was the only luxation that ever happened to me in practice, where the child was alive.

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 polition. His method was to bind down the foles of both feet with foft bandages, to one firm and ftraight or plain fole-piece of bend-leather, fo that one foot was a flay to the other.

NUMB. III. CASES I. II. III. and IV.-Fractures.

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I N turning and delivering a fmall child by the feet, I found the bones of one of the arms fnap alunder, though turned and delivered with great eafe, and in a flow cautious manner. Indeed I am perfuaded it happened principally from the fmallnefs of the bone. I faid nothing, but wrapped the child up in its blanket, and laid it on the lap of one of the affiftants, 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 poor of mufcular flefh, I only applied a comprefs dipped in brandy and water, and with a fingle roller kept the ends of the bones together, which I found was fufficient at the time; and to prevent suspicion of a fracture, I held the arm during the dreffing. I defired the nurse not to let it lie on that fide, nor undress the child till I was present. I renewed the dreffings as there was occasion, and the arm recovered without the parents having any other fuspicion than of a strain in the delivery.

Mr. Neale, furgeon, of the London Hospital, 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 attendance, 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 body, or bring down the other leg, 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 great pains to recover the limb, but by the milmanagement of a drunken nurfe, the thigh inflamed, and the child died. Such things fometimes happen even to the best and most 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 these accounts I delivered the woman in a hurry. The child was alive. I left one of the eldeft pupils, who found that one of the thighs was broken ; he tied it up, and attended frequently; but the child was loft by the careleffnefs of a drunken mother.

NUMB. IV. CASES. I. II. and III .- First dreffings.

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I DE LIVERED a woman who had brought a nutle from the country. Next morning I was told the child was very bad. I examined and found it groaning, with fearce any pulfe, the extremities growing cold, and the countenance pale. I defired the nurse to undrefs the child; and observed it was bound and pinned exceedingly tight. I ftayed till I faw it dreffed loofe; and ordered a cordial mixture of aq. alexiter. fimp. žij. Aq. alex. spirituous, fyr. croci, ā zij. a little of this to be given frequently. Next morning, they told me that the child expired foon after 1 left the houfe .--I have been called feveral times, where I found the uneafine's of the children proceeded from too tight dreffings; and by observing this circumstance in time, the danger was prevented by dreffing them loofer. Doctor Sands told me he was called to a child of a relation of his own; and found it was fo tight bound that it could fearcely breathe. The face was turning livid; and as there was no time to be loft, he rip; ed 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 band-age on the navel appeared very tight. This I ordered to be unrolled; and the child immediately breathed with greater freedom, and did very well.

The following is from Dr. George Macaulay :- A midwife made the ligature of the funis umbilicalis too near the child's belly. After feveral days it was shown to me; the ligature was not made to tight as to stop the circulation entirely, but the part was fwelled and inflamed. I divided the ligature with a pair of feiffars; the funis dropped off at the usual place, the inflammation abated, the parts contracted, and the child had a good navel.

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COLLECTION XLVI.

NUMB. I. CASE I.-Imperforated anus.

[Vide Part i. Book iv. Chap. ii. Sect. ii.]

T DELIVERED a woman of her first child; next day the nurse told me the child had had no ftool, although fhe had given the oil and fyrup; and was afraid there was no paffage at the fundament, having tried to introduce a stalk of parsicy and butter. I inspected the part, and lubricating my little finger, introduced it a little way into the anus; but plainly found a smooth obstruction about an inch or less from the entry. I informed the father of the danger the child was in. and advifed him to fend for Mr. Gattaker, the furgeon of the family ; he advifed, as the cafe was uncommon, to fend for Mr. Middleton. 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 attachment was flight, it might fucceed. It was agreed to perform the operation with the trocar. Mr. Gattaker introduced the inftrument, and pufhed the point and fheath through the adhefion, in a line, as near as he could judge, along the common course of the rectum. No meconium appeared on withdrawing the inftrument. After this he introduced a large bougie, which went up a great way. We, next morning, observed some meconium come down on extracting the bougie. Another somewhat larger was again introduced, and the child feemed to be in a fair way of doing well.

CASES'II. and III.-Children born without an anus.

M R. 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 coccys to the fcrotum; lie told the grand-mother, it was preternatural, and that though he had twice feen the anus covered by a membrane, which was eafily cured, he could not promife to do the like in this; but if the pleafed, he would try to reach the gut by incifion, which the, with the mother's confent, fondly agreed to. Whereupon he made an incifion pretty deep in the most reasonable part; then introduced his little finger to find the gut, but in vain. He afterward tried the trocar, but nothing followed but blood; fo was obliged to leave the patient without prospect of help. The child died next day. Upon opening it, the rectum was entirely wanting, and the colon a perfect inteftinum cxcum, fufpended loofely in the abdomen, and full of meconium .---From Med. + flays of Edinburgh, vol. iv. art. xxxii.

Mr. Pinkstan, surgeon, of London, delivered a woman of a female child. Next morning the nurfe told him the child had had no ftool, although the faw no fault at the fundament. On examining, and introducing a probe about half an inch, he met with a firm refistance. He then told the mother the necessity of performing an operation on the child; though not without expressing fome doubt of fuccess. Having obtained confent, he cut about half an inch into the refilting fubstance ; and finding no faces follow, enlarged the external orifice, and went about half an inch deeper. Nothing iffuing but a little blood, he introduced his finger, and found a refiftance that made him defpuir of fucceeding, and dreffed up the wound. The child had that night fercoracious vomitings, that continued till its death, which happened on the fifth day. Being permitted to open the child, he found the rectam callous and imperforate, as far as the laft vertebra

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vertebra of the loins, which showed the defect was absolutely incurable. In cases, however, of this kind, a cure should always be attempted.

C A S E IV .- The urethra imperforated.

M R. LUCAS, of Pontefract, in Yorkshire, the day after delivering a woman, understood the child had never made water. Upon infpection, he found the glans penis imperforated, and of a bad formation, with fearce any prepuee, and no appearance of the urethra. On this he made an opening with a small lancet pretty deep along the penis, under the urethra, making crucial incisions; he also tried to pass a small probe, but all attempts were unfuccessful; a great hæmorrhage obliged him to dessift; but in about twelve hours, the urine forced a passage through the femi-divided fibres into the artificial urethra formed by the punctures of the lancet, and the child foon recovered.—Vide Lamotte, book i. chap. xxx. on imperforation of the fundament and urethra.

NUMB. I. CASE I. II. and III .- Tonguc-tied.

A WOMAN whom I delivered, told me the child had got two 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 flattened it to that appearance. To make the parents eafy, I ordered a mixture with barley-water and mel. rofarum, and to moiften the part now and then with a feather, and told them the appearance would vanish in a few days; which prognoffic as verified.—This fwelling was occasioned by my finger, which I was obliged to introduce into the mouth in delivering the head.

Cafes of the tongue being tied by a thin membrane, to the under part of the mouth, are common, and eafily affifted. I have only had two cafes in all my practice 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 excrefeence formed below, to which the under-part of the tongue 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-hand 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 bleed. I fent for fome pulv. flypt. but recollected that fpirits of wine would contract fmall veffels, and immediately dipped a feather in fome, and with it touched the divided veffels, which contracted in an inftant. I made the woman flay fome time, but the firft touch was fufficient.

I had been affured by a furgeon, that he had brought down fuch an excrefcence by touching it now and then with lunar cauftic. I tried to relieve a child with that article, but there was fo much moisture from the faliva in the mouth, that the cauftic was diffolved, and affected the adjacent parts. I therefore diffcontinued it, as it did not remove the impediment.

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COLLECTION XLVII.

NUMB. I. CASES I. II. and III .- Mould-shot beads and convultions.

[Vide Part i. Eook iv. Chap. ii. Sect. iii.]

WAS fent for to a child, who immediately after delivery was throwⁿ into convultive fits. The labour had been taken into convullive fits. The labour had been tedious, the child large, and the head compressed into a longish form. I tried with the palms of my hands to mould it into a globular shape, but to no purpose. I took about two ounces of blood from the neck, and ordered a finall blifter betwixt the shoulders. It had no return of convultions after bleeding, and grew a ftrong healthy child. The head gradually expanded, and recovered a better form.

I delivered a woman whofe child was large, the pelvis finall, and the head of a very long shape; one parietal bone was squcezed over the other, and the occipital bone forced more back. The child, who cried ftrongly at first, was immediately after thrown into a convultive fit. I tried to mould the bones into their proper form, but could not. The funis umbilicalis not being yet tried, I cut it, and allowed it to bleed about four spoonfuls. The child recovered. I ordered a blifter, and three grains of rhubarb, to purge off the meconium. This method answered 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 three drops of blood from the funis, to prevent convultions, which cuftom might arife from fome more knowing practitioner, who took this method in deceiving them, on purpose 10 let the navel-string bleed a little .- Vide collect. xxxii. cafe xi.

I was called to a child in convultions 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 against bleeding with a lancet. I ordered lecches to the neck, and a blifter 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 most, and then I afcribed the fuccefs to the head not having been long retained in the paffage.

11 Cat 31-CASES I. II. III. and IV.-Eruptions. NUMB. II.

A CHILD, about three days after delivery, ftruck out all over the body with fmall red eruptions, which, in London, the nurfes call the redgum; but in Scotland is termed the bives. As I found the child had got little paffage, and had not fucked, I ordered three grains of rhubarb; and if it did not operate in five or fix hours, to give three grains more; both doses were given, which assisted in discharging 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 off 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. It was also reftlefs, and cried much. It had not above four times paffage fince the delivery. I ordered five grains of rhubarbin a little thin pap, which gave the child two loofe flools, and relieved it of the colic pains. I directed the nurle to give frequently fome chicken-broth for nourifiment, either by itfelf, or mixed with the pap; and if the child did not go to flool two or three times a day, to

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to diffolve half an ounce of manna in four fpoonfuls of water, and give about a fpoonful as often as there fhould be occasion, to have the above effect-The nurfe had given oil of fweet almonds and fyrup of violets, without effect; but the manna after the rhubarb, kept the body open, and the eruptions, 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 decoftion of fena and prunes, which had thrown it into a violent purging; and this had carried in all the red-gum. I ordered julep. e creta, *z*iij. with tinft. thebaic. gt. iij.; a fpoonful to be given prefently, and repeated after every loofe ftool. This ftopped the purging, and the eruptions refumed their red colour, and went off gradually. I delivered a patient of a ftrong healthy boy. The mother was unable

to fuchtered a patient of a firong 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 fhe neglected. I was fent for on the fixth day, when I found the child in a violent fever; there had been very little 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 clyfter of chicken-broth, which brought off a large quantity of thick meconium. This plainly fhewed the child had been neglected, but the inflammation foon turned livid, and deft royed the child.

COLLECTION XLVIII.

[Vide Part i. Book iv. Chap. ii. Sect. iv. and v.]

NUMB. I. CASES I. II. III. and IV.-Green Acols.

CHILD, put to a wet-nurfe, was taken foon after with a continual crying and reftleffnefs. 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 before I arrived. I faid nothing to her, but advifed the parents to take away the child before it was flarved. I recommended another, who I was certain had a good breaft. This advice fucy followed, which recruited the child, and carried off the green ftools without the affiftance of any medicine.—I could mention many cafes of the fame 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 ftools. I ordered fix grains of rhubarb, and a mixture of half an ounce of magnefix, in two ounces of aq. purfweetened 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 to give the child frequently a little chicken-broth, or beef-tea, as I found that her miftrefs was irregular in drinking fpirits. The child grew better, but frequently relapfed, and I advifed weaning it. My advice was followed, and the child recovered,

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I was calle i 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. 3iij. Spirituous, 3fs. Elect. e fcordio, 3fs. fweetened with fyr. fimp. a fpoonful to be given after every ftool; alfo a clyfter made of the decoction of chicken-guts. For nourifhment, enicken-broth in which rice was boiled. This method reftrained the purging and ftrengthened the infant.—In a few days the loofenefs returned; I ordered eight grains of toafted rhubarb and three 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 child is generally loft.

. 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 unfuccefsfully 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,

NUMB. II. CASES I. II. and III.—Aphthæ, or thrush.

I WAS defired to vifit a child at wet-nurfe, and told, that its lips, mouth, throat, and tongue, were full of 1 ttle white fpots inclining to yellew. The child was about a fortnight old, had caught cold, had been coffive, and the ftools of a clay colour; but afterwards taken with loofe, curdly, green stools. The skin felt hot, the pulse was quick and low. I found the nurse's milk in plenty, and of a right confiftence. I defired her to give the child frequently a little chicken broth; to wash 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 fhoul-Next day, the nurse told me she had got down pretty often the milk ders. 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 thruth 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 nourish it in that manner. Next day the thrush began to flough off the tongue. She continued the clyfters. The day after, the got down fome milk and broth at different times. The thruth was now more at the fundament, and fo fore the clyfters were left off. After this the excrements were lefs curdled and green, and not fo frequent; the thrush went off, and the child recovered. I have had many fuch cafes; but the children feldom recovered when the thrush rose to fuch a height 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 called. It was taken with a fore mouth, full of little white fpots, which by degrees turned to yellow and changed to a dufky colour. It could not fuck, but was fupported with new-drawn whey, pap, and new milk. It was much emaciated; the ftools were loofe, of a brown colour, and cadaverous finell. The gums and throat were black and full of gangrenous ulcers. I told the parents the child was in the utmoft danger, and could not live long. This was late at night, and it expired before morning.

Some time after, I was called to a child about two years 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 expired.

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- Thefe last cases are not fo proper to infert here, because I confine myfelf to those in the mouth, but as they are of the same kind, and so extraordinary from their long continuance, I thought they might show the danger that ensues when the patient is not affisted in time. Confult Dr. Fothergill and others on those diforders.

COLLECTION XLIX.

[Vide Part i. Book iv. Chap. iii.]

CASE I .- With refpect to men-practitioners.

R: W. attended a woman in labour of her first child. He had gained reputation from being called to affist midwives in the country in preternatural cafes; but as this was the first time of his being befpoke to attend by himfelf, he was at a loss how to manage his patient in a natural cafe. The woman was of a healthy and robust confistution, the labour-pains were frequent and firong; but he, not confidering the parts must have time to fosten and dilate, began, as he had formerly done in preternatural cafes, to lubricate and dilate the os uteri, which was then only open about the breadth of a crown-piece. In this manner he continued, every now and then, to affilt the delivery for feveral hours to no purpofe. The nurfe, who had been many years in that business, exhorted him to reft, and not fatigue himfelf, especially as the woman was not young, and as the child prefented with the head.

He had attended me one courfe of lectures about three years before, but had not attended the labours, imagining every thing in midwifery trifling, and that the lectures on the extraordinary cafes were fufficient.-Finding himfelf at a lofs how to manage the labour, he defired her triends to fend for me; but, contrary to his inclination, another gentleman was called, who by art and cunning had got a name amongft the lower fort of patients. Both these gentlemen being felf-fusicient, foon split in their opinions, as to the prefentation of the focus. He who came last, alledged the shoulder prefented, the other ftill infifted that it was the head. These debates luckily happened in another room ; and continued fo obftinate and long, that the patient, who had been fatigued most of the night, fell into a found fleep ; being at reft from her premature affiftant. The nurfe, being afraid. that her mittrefs would fuffer from these difagreements, advised the hufband to call an old practitioner. As I returned from a patient about fix in the morning, the hufband was advifing with his neighbour, who knew me, and begged my advice and affiftance. I complied, and accompanied him to his house. After hearing the different parties, both male and female, I, as the patient was alleep, defired the might be kept quiet. As the feafon was exceffively cold, I begged they would regale the attendants and me with fome warm tea; choping I might have time to foothe the quarrel, for the females, who were numerous, had entered into the difpute. At their defire, 1 examined the patient in time of a pain, and found the os uteri a little open, but rigid. From the globular form and hardness of what prefented. I imagined it rather the head than any other part of the foctus, refling on the upper part of the offa pubis. I then called the gentlemen afide, and observed that the position of the child was of no confequence at prefent; that the woman being now eafler, this her first child, the os uteri rigid, and the

the membranes not broken, it would be better to encourage reft, and allow time for the parts to foften and ftretch gradually by the pulhing 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 affift when there was more room, especially as the waters were not yet come off. By this remonfrance I brought them to a better temper, and they were at last reconciled. Indeed I thought it always my duty to make up fuch breaches for the general good of fociety, as well as for the honour of the profession .- I advised Mr. W. to attend his patient, but not to diffurb her in the leaft; and propofed that we should all three meet at twelve, or sooner 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 thould lofe eight ounces of blood from the arm; that the nurfe should administer a clyster, 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. delivered, or rather received the child, prefenting fair, next morning.

CASE II.

I RECEIVED a meffage from a lady, to go to one who had been her 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 husband for bringing another without his knowledge. As I did not know another of the profession was there when I was called, I asked the gentleman's pardon, and told him the message I had received, and my ignorance of any other being there but a midwife. The 'husband excused himself in faying, it was the lady's goodness to fave his wife. This apology feemed to pacify him, but he began to abufe 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 un-bended. He told me he was just going to deliver his patient, and I was welcome to be prefent at the operation; for he could wait no longer, as he had already loft one patient by waiting two days on this. I thanked him for his invitation; but begged only he would grant my first request. He then gave me to understand, that the night before last the woman had strong pains; but as he was then uncertain how the child prefented, and the had got little fleep for two nights before, he had ordered repeated dofes of opium, which had produced no effect; but that last night she had been quite stupid and often convulled; 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 pretty largely open ; and defired me to examine, which having done, I found the head of the foctus refting above the offa pubis ; 2 circumflance which he had not obferved. As he had occafion to withdraw, the apothecary informed me, the patient had taken at different times, about 15 grains of opium; and this, he per uaded himfelf, was the occasion of the convultions and flupidity. I found her pulle quick and full, while the lay in a profound fleep. The nurfe 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 examine, he would find the head refting above the pubes. This he thought impossible, as he had examined fo lately, but 63

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on trying, he confessed it was even fo. I likewife told him her pulse was ftill firong, and as fhe had fallen into a found fleep, advifed him to have a little patience. He now feemed more disposed to reason. I therefore obferved to him, that as this was not barely a cafe in midwifery, confidering the flupidity and convultions, 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 physician came. At his arrival, being desirous of information in every particular, and enquiring minutely about the quantity of opium which had been administered, the man-midwife and the apothecary difagreed in their accounts; when this last 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, she would sleep off her large dose of opium. This declaration enraged him fo much, that he left the houfe, muttering revenge against the apothecary.

After fome converfation with the phyfician, we both concluded that the over dofe of opium was the occafion of the convultions and flupidity, 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.

NUMB. II. CASES I. II. and III .- Midwifery.

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 midwife at Lambeth; but the woman was delivered before he arrived; neverthelefs, he would examine, and called out that the woman was tore, which the midwife denied, complaining loudly of his unfair conduct, as fhe 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. xl. N° vi.—The midwife heard of this incident; on which fhe every where upbraided him with being guilty of what he had villainoufly and falfely laid to her charge.

Another gentleman, many years ago, made a great buftle, 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 loft. Neverthelefs he gained credit by making cafes appear defperate to those concerned. These practices frightened many midwives from calling in men-practitioners. To my knowledge he was the occasion of many bad cafes, this the midwives have acknowledged to me when I expostulated 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 themselves and their children faved, never more had recourse to him.

I was one night called to a woman, and was not a little furprized when I came to hear two women fcolding 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

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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 fhe chofe for her midwife? She faid the one who was befpoke; for the other fhe was afraid of. I acquainted them with this decifion; and advifed her that came first 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 contest, and both were pleafed. *Vide* collect. xxxii. cafe xiii. alfo collect. xxxiv. N° i. cafe xiv. N° ii. cafe iii. and viii. and collect. xxxiii. N° ii. cafe v.

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