SELECT CASES

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OF THE

DISORDER

COMMONLY TERMED

THE PARALYSIS OF THE LOWER EXTREMITIES.

TO WHICH IS ADDED,

A CASE OF CATALEPSY.

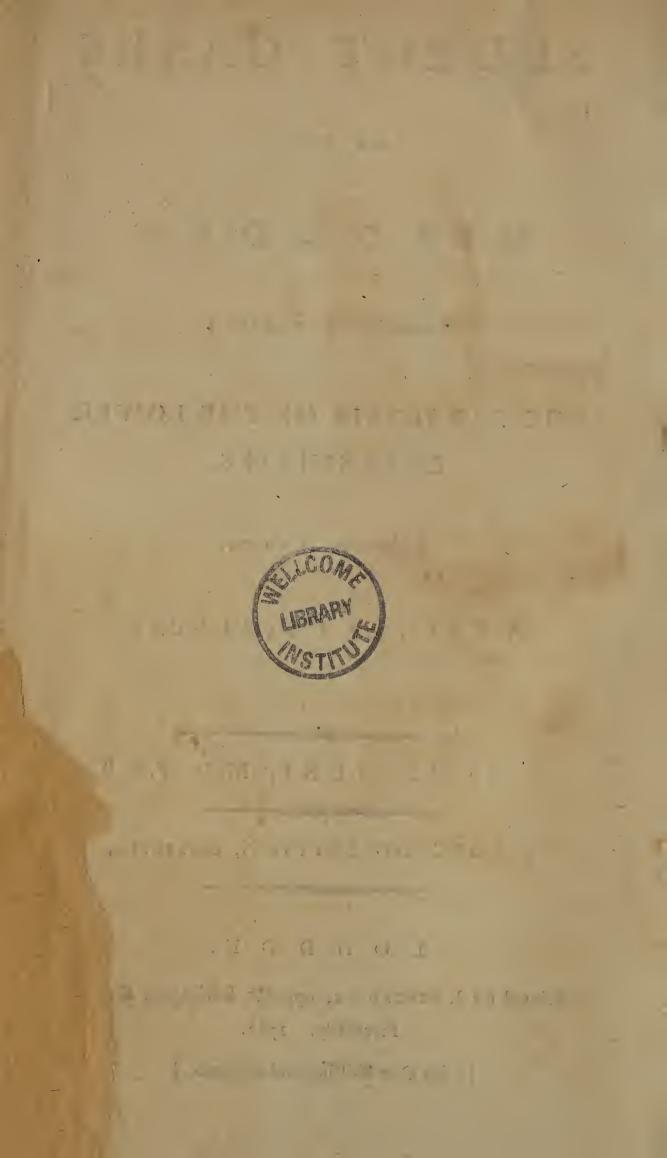
By JOHN JEBB, M.D. F.R.S.

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PERCIVALL POTT, Efq. F.R.S,

TQ

SENIOR SURGEON OF ST. BARTHOLOMEW's HOSPITAL.

add in an interio

SIR,

A T an early period of my medical fludies, you pointed out the path to fubftantial science; and your subsequent instructions gratified that defire of knowledge, which your exhortations had excited : favours enhanced by the manner

DEDICATION.

manner of conferring them. Permit me to teftify my fenfe of obligation, by inferibing the following pages to your refpected name.

I remain

and a star store -

Your obedient and

Obliged fervant,

JOHN JEBB.

SEPT. 7, 1782.

[I]

SELECT CASES, &c.

MR. POTT, in his tracts upon the Paralyfis of the lower extremities, having deferibed the fymptoms of that diforder, together with the appearances upon diffection, with his ufual perfpicuity and precifion; having alfo recommended a mode of treatment, of which experience hath very fully demonstrated the fuccess; it may perhaps appear an act of unjuftifiable prefumption to folicit the further attention of the public to a fubject, commented upon by his masterly pen, and therefore, it may be urged, already exhausted.

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Every person, who with a proper degree of attention peruses the publications of that able writer, must observe, that the doctrines advanced in his treatifes upon the Injuries of the Head, the Hydrocele, and Ruptures, although they are laid down with a degree of clearness and accuracy, of which we have but few examples, receive confiderable light from the cafes he has fubjoined. In the medical art, general propositions are rendered more intelligible by a representation of the particular instances from which they were deduced. The doctrines advanced are impressed more forcibly on the understanding, while the circumstances of the cafe not unfrequently fuggest reflections, that gratify the activity of our minds, and enable us to form deductions for ourfelves.

It has frequently occurred to me, that much light and information might be derived to ftudents in medicine, were the phyficians

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phyficians of our hospitals more generally to imitate the manner purfued in the Infirmary of Edinburgh. Were they to point out to their pupils fuch particular cases, as feemed most likely to afford opportunities of improvement-were they to encourage them to meet and to report the refult of their enquiries into the fymptoms of the disorder, the effect of the medicines, and the progress of the complaint to its fatal termination, or its cure-were they, laftly, from the various accounts of the students, and their own observations, to draw up regular and well-digested histories of such cafes, as might appear most deferving of attention, and infert them, properly authenticated, in the books of the hospital, such histories and details would be attended with public as well as private advantage; they would be analogous to the reports and year-books of our lawyers-to the recorded observations of the appearances in the heavens-and might be reforted to as authorities, B 2 119 4

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thorities, and as evidences of Nature's powers, and of Nature's laws.

Instances frequently occur in hospitals, where, without offence and without difficulty, enquiries might be made into the original causes and seat of the diforder, by an examination of the appearances in the body after death. This is at prefent sometimes permitted, under proper restrictions; but the mode of conducting fuch enquiry admits of confiderable improvement: the investigation should be more minute, and instituted under the immediate infpection of the attendant physician, affisted by a perfon accustomed to morbid diffections, and a proficient in the anatomical art. The appearances, submitted to the view of all the students, and accurately reported, should be properly authenticated, and inferted in the oppofite page to the history of the symptoms and the mode of treatment: a form of procedure, which E 52 would

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would conduce more, than poffibly may occur upon the first reflection, to the establishment of the art of medicine upon a folid, because truly philosophical, foundation *.

The cafes now offered to the public, are not propofed, in any refpect, as models of the plan I would recommend; they are transferibed from note-books, wherein the fymptoms and appearances were fet down without any further view than my own private reflection and improvement. Neither

* I would add, that if an accurate register were kept of fome of the capital operations, fuch as lithotomy—the application of the trephine—the operations for the bubonocele the cataract, &c. many fubftantial advantages would be derived to the medical and chirurgical art. 'The frequency of thefe operations in hofpitals, the mafterly manner in which they are generally performed, and the detail of well authenticated circumftances which might, with fo much facility, be included in the report, would enable us to form a nearer approximation to certainty, with refpect to the comparative merit of different operations, and the general refult of the diforder, than could poffibly be expected from the obfervations of unconnected individuals, however great their abilities, however extensive their practice. ther have I the prefumption to imagine, that it is in my power to fuggeft any new ideas upon the prefent fubject. However, as the cafes fubjoined were taken with fidelity and care, as fome of them were under the immediate management of Mr. Pott, when he composed his treatifes, the relation of them may possibly tend to confirm his theory, and explain the reasons of his practice.

In conformity to the principles upon which the inimitable Nofology of Dr. Cullen is founded, I will, in the hiftory of thefe cafes, confine myfelf folely to evident fymptoms, and the patient's narrative; being fully fatisfied, that to defcribe diforders according to the forms in which they really evidence themfelves to the fenfes, with a careful attention to the patient's feelings, is the most likely method of acquiring both a knowledge of their caufes and of their cure.

CASE

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CASEI

T. C. aged thirty-two, originally of an healthy conftitution, was admitted a patient in St. Bartholomew's Hofpital in November 1777. He sometimes complained of a pain, but generally of a numbness, at the margin of the thorax, under the cartilages of the ninth and tenth ribs of the left fide, with a cough, fpitting, and fhortened refpiration, when he lay on that fide; the spinal process of the seventh or eighth dorsal vertebra was confiderably protuberant; his belly was prominent and flaccid, with a numbness extending itself over the whole abdomen, and great debility of the musculi obliqui and transversales, whenever he voluntarily attempted to contract them; a fensation of chillness prevailed in his knees, with a want of feeling in the fore part of his legs, and an inability of drawing them up in bed.

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To these fymptoms were added twitchings in the flexors of his legs, and numbness of the feet, a jarring sensation in the Tendo Achillis of one foot, and transfent pains in both, which, with the chillness, proceeded, as he conceived, and repeatedly declared, not from the protuberant part of the spine, but the lumbar vertebra immediately above the os facrum.

The quickness of the pulse, the florid appearance of his countenance, and state of respiration, strongly suggested the idea of hectic fever prevailing in the system.

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These affections, with a numbres of the sphincter ani, costiveness, and a want of consciousness when his faces were ejected, completed the catalogue of his complaints.

Upon repeated enquiries, he constantly declared, that he did not recollect any strain, ftrain, or other accident, to which he could ascribe his present sufferings.

It appeared that it was nearly three years fince his diforder commenced. His firft complaint was a rheumatic affection in the fide, which was cured by Gum Guaiacum. About this period he imagined he got cold, a pain and forenefs in the fmall of his back fucceeding to that complaint, and a fenfe of inward weaknefs in his breaft. Thefe fymptoms were exafperated by a cough; numbnefs of the abdomen followed next in order, with a gradual acceffion of the other fymptoms, until he was confined to his bed.

Before the application of the cauftics he made trial of the cold-bath, mercurial frictions, tinctura facra, volatile liniment, a ftrengthening plaister to the loins, and the screw-chair, without any good effect whatever.

whatever. The cold-bath and fcrew chais were evidently hurtful.

The cauftics being applied, according to Mr. Pott's directions, on each fide of the protuberance, foon produced a fenfible effect; the twitchings in his thighs and legs were increased, and in some degree fensation and voluntary motion were reflored in his feet; but the advances to a perfect cure were not very rapid during the first fix months.

He next recovered the power of expelling flatus per anum: during this period the curvature appeared to diminish: the numbness in his insteps remained for many months; but at length, all his complaints wore off, his former state of health returned, and he intirely recovered his former vigour.

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CASE II.

R. B. aged twenty one, was admitted into St. Bartholomew's Hospital in June, 1778. A protuberance being observed in the spine, the caustics were applied in the course of the following month. At that time, he lay totally deprived of the use of his lower extremities, which were rigid, and almost entirely insensible, an imperfect feeling remaining only in the plantæ pedum and the knees. Transitory twitchings and tremblings prevailed at times, with general rigors, as in the cold fit of an ague; his fæces came away without his knowledge, his urine flowed without his consent, a violent pain in his bowels preceding its evacuation. He was also affected with numbness below the navel. He complained at times of a pain in his fide, with spitting, and a conftant uneafinefs under the fternum.

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His ftrength at this time was much wasted, in consequence of two large fores on his hips of more than eight inches diameter, accompanied with exfoliations of the great trochanters. A fymptom fomewhat fingular was observed in his case. For about a month before the date of his admission, he was affected with a convulfive motion in the second finger of one of his hands.

From his account of the origin and progress of the diforder I collected as follows:

About two years before his admiffion into the hospital, he fell from a hay-loft; his loins received the force of the fall; he recovered himself in a few minutes, and for three months felt no kind of complaint.

At the close of this period he began to be fensible of a pain in the eighth or ninth dorfal dorfal vertebra, the fpinal process of which became soon after protuberant; the pain was apparently of the rheumatic kind, being worfe when he was warm in bed, and recurring after having catched cold. At this time he also found his ability in raising heavy bodies diminished, and his powers of motion impeded.

In a year and a half after the accident, his pain increasing, in consequence, as he thought, of a cold, he applied to a furgeon for advice, who ordered an embrocation for his back. In a few days afterwards he felt a pain descending from the protuberant vertebra, in the course of the spine, and of the isolatic and the crural nerves, affecting the thigh, the ham, and the gastrocnemii muscles to his heel. This pain spin spin spin nished, and never afterwards returned; the weakness and the numbuess rapidly increased after this fensation, until, in the course

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course of four days, he was reduced to the helples situation in which I found him.

He continued in this weak flate for many months, his pulfe beating generally 140, and at one time 180 flrokes in a minute. The iffues evidently produced fome effect; at times there was a transfent recurrency of fensation in his feet; but nature being exhausted by the discharge from his ulcerated hips, his general health being also impaired from inward disease, he gradually funk under his complaint.

I much regretted, that an opportunity was not allowed by his friends of examining into the state of the parts.

CASE III.

R. H. aged nineteen, was admitted into St. Bartholomew's Hofpital in December, 1777.

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At the time of his admission he come plained of pain in the muscles of his thighs, and the fore part of his legs, which fenfibly grew worse at night. His knees and ancles were extremely feeble. He walked with great difficulty and pain, but had never been affected with the usual symptoms of numbness or chillness in his lower extremities, during any period of his diforder. He felt a soreness under the short ribs of both fides, which was much exasperated by a troublesome cough. From the parts thus affected, lancinating pains frequently proceeded down his thighs, which more particularly distressed him when he lay on his belly: his pulse was tolerably strong, but very irregular. He was also much emaciated : a white and viscid mucus was frequently expectorated, particularly in a morning; his general debility continually increased.

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The fpinal process of the ninth or teach dorfal vertebra was very protuberant; but he conceived the pain and weakness to proceed from a point confiderably below that protuberance.

Upon my examination into the caufe and progrefs of his complaints, he informed me that they were the confequence of a ftrain received, about a year before his admiffion, from his foot flipping while he was afcending a ladder with a fack of oats: he felt a fudden fhock affect the part which became afterwards protuberant: he perceived no immediate inconvenience, but proceeded in his bufinefs as before.

About two months after the accident, having been exposed through the whole of an inclement night to the cold, he was taken with a shivering, and felt a rheumatic pain suddenly seize the part first affected

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by the fhock; a fecond fit of fhivering, with pains at the bottom of his belly, took place within fix weeks after the first; the protuberance now became apparent, and gradually increased, with debility and the fymptoms already described.

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Within a month after the application of the cauftics, he grew evidently better: his pains grew lefs troublefome, his ftrength gradually increafed, until, at the clofe of about feven months, he was difmiffed, perfectly free from all complaint.

CASE. IV.

R. S. aged ten years. He received a blow on the pit of the ftomach, about twelve months before the application of the cauftics. He fell in confequence of D the

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the stroke, but recovered himself in a few minutes, and felt no inconvenience for some days.

About a week after the accident, he began to be fenfible of weakness in his limbs: at the close of the following fortnight, the spinal process of the second dorsal vertebra became a little protuberant; and in three weeks more, his complaints had increased with fo much rapidity, that the use of his lower extremities was entirely loft, and all fenfation in them totally extinct : they were also rigid, the feet being pointed downwards, as if the gastrocnemii muscles were in a state of spasm. He had been under the care of Dr. Pitcairn for above nine months, who attended to his cafe with fingular humanity; but having prefcribed various medicines and applications, without the wished-for success, at length he recommended him to the care of Mr. Pott. When the caustics were ordered, the

the difease occupied five or fix of the vertebræ of the back, which was bent into an uniform curve: the patient's chin rested on his breast; and the appearance was so unpromising, that Mr. Pott declared, he was induced to make trial of the caustics, merely because he would leave nothing undone in a case fo truly deplorable, but that he scarcely could expect any advantage from their use.

In about a month from the time of application of the cauftics, he acquired the power of moving the great toe of one of his feet; he was exhorted to attempt the motion of the other, by exerting repeated acts of volition, which in a little time he alfo accomplifhed. I was particularly attentive to the progrefs of the cure for many months. The pointed pofition of his feet long remained. However, without the ufe of any medicine, the power of motion of the ancle-joint was at length regained. D 2 The curvature of his back gradually decreafed; and at the clofe of about ten months from the time of applying the cauftics, having recovered the entire ufe and vigour of his limbs, he was difcharged in perfect health.

CASE V.

J. R. admitted a patient in St. Bartholomew's Hofpital, in May, 1779. He informed me, that for four years before this period, his left fide was hurt, in confequence of a fall from an horfe: that he was not blooded immediately upon the accident; but feeling a pain there three months afterwards, he then was blooded, and the pain thereby for a time intirely removed.

In about half a year the pain returned. A blifter was then applied to the affected part.

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part. Upon washing his feet with cold water, he perceived the pain strike to his loins, in which place he continued constantly to feel it to the day of his admission. A weakness commenced in his limbs about three years after the date of the accident, for which he took various remedies, without effect: this weakness terminated at length in the entire loss of the use of his lower extremities. He went to Bath; and after a stay of several months, returned, without having received any benefit whatever from the waters.

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Sufpecting the caufe of his complaint, from his hiftory and apparent fymptoms, I examined the fpine previoufly to his admiffion, and difcovered a protuberance of the fourth or fifth dorfal vertebra, which, before that period, had not been noticed, either by himfelf or those who had attended him. He had now been troubled with a cough for many months : his ftools were

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were involuntary, his bladder was not emptied without great exertions; his legs were frequently drawn upwards with violence, at other times agitated with convulfive tremors; he invariably conceived the caufe of his diforder to be feated in the loins.

It was fomewhat fingular in this man's cafe, that whenever his legs were violently affected with the fpafms, he alfo felt an hyfterical fenfation in his throat, a lump feeming to have arifen there which impeded deglutition.

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The cauftics were immediately applied upon each fide of the protuberant vertebra. He lay in bed with wonderful patience for eighteen weeks, without perceiving the minuteft alteration in the fymptoms of his complaint; Mr. Pott, who paid remarkable attention to his cafe, repeatedly encouraging him to perfevere.— At At length, upon one of my vifits to him, he informed me, with ftrong expressions of joy, that on that day, for the first time, he found himself able to move one of his toes. This unexpected alteration in his symptoms was followed by others equally pleasing, until, in the course of about eight months, he entirely recovered; the difficulty of expelling his urine was the last fymptom that disappeared.

CASE VI.

M. B. a woman, aged forty-feven, was admitted into St. Bartholomew's Hofpital, in February, 1779.

She related, that her complaints originated from a strain, received in consequence of an extraordinary exertion of strength, about four months before the date

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date of her admission. A violent flooding was the immediate effect. To this fucceeded a loss of the use of the lower extremities, and a protuberance in the spine. She laboured also under disorders of the ftomach and bowels, apparently independent of that, which had produced the curvature, and paralytic affections. For this reason, as well as from some doubts I entertained, respecting the affigned date of the derangement in her spine, I have omitted the further mention of particular fymptoms. I have felected the cafe, however, as deferving of attention, on account of fome fingularities in the appearances after death.

The cauftics were applied, but produced no alteration in her fymptoms. She gradually funk under her complicated complaints.

Upon opening the abdomen, we difcovered many conglobate glands, in the vicinity

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vicinity of the pancreas confiderably enlarged, and of a fimilar confiftency to what is obferved in fcrofulous fubjects. Scrofulous tubercles were apparent alfo on the furface of the liver, to which vifcus there was a very large fcirrhous appendage, that defcended as low as the crifta of the os iliûm.

Upon infpection of the fpine, we difcovered that a griftly fubftance of the fize and fhape of a turkey's egg, and of fuperior firmnels to most fcirrhi, formed the protuberance observed before death. It occupied the places of the fpinal, articular, and transferse processes of three vertebræ of the back, which processes, from some remains in a corroded state, appeared to have been gradually destroyed by the enlargement of the scirrhus: the spongy bodies of these vertebræ alone escaped. This scirrhous mass lay in contact with the spinal marrow. The capitula of two or three of the ribs on

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each fide were also much corroded. In fuch circumstances, it will not appear furprising that the caustics should have failed in producing their customary effects *.

CAŠE VII.

J. D. was admitted into St. Bartholomew's Hofpital in February, 1779.

He appeared to fuffer much from a fealding of his water, which inceffantly dribbled from him. He complained alfo of great languor and debility, particularly in his knees and back, and numbnefs in his feet; a white mucous fediment appeared in his urine: an obftinate coftivenefs, with frequent tenefmus, fhortnefs of breath, a cough,

* I beg leave to refer my readers, on this occasion, to a very inftructive case, (in which the paralytic symptoms evidently arose from a substance of softer contexture, pressing upon the spinal marrow) inferted in the third volume of Medical Observations and Enquiries, page 160, &c. cough, loss of appetite, and want of rest, accompanied these complaints.

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He related, that his disorder originated from a strain which he received from carrying an heavy load, about feven years before the time of his application for relief .---Upon examination of the spine, one of the lumbar vertebræ appeared confiderably protuberant: upon further enquiry, two fistulous orifices were discovered; one in the thigh, the other in the groin of the oppofite fide, from which pus was almost constantly discharged. From the depth and direction of these fistulæ, and the patient's history of his disorder, no doubt was entertained of the fource of this discharge being feated in the loins.

The cauftics were applied, but he died in a few days, perfectly exhausted, before any advantage could possibly have been derived from their use:

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An opportunity was not indulged of infpecting the parts.

From reflecting upon this cafe, and fome others I have met with of a fimilar nature, I have been led to conclude, that, in those instances of the distempered spine, where a protuberance, evidencing a mechanical derangement of the parts, is connected with the paralyfis of the lower extremities, the purulent matter, generated while the caries is advancing, is prevented from escaping downwards by the thick ligamentous fubstance that covers the corpora vertebrarum, and that this fluid thus detained affists in the further corrosion of those parts. Hence the subsequent inflection of the spine, and the protuberance accounted for in fo fatisfactory a manner by Mr. Pott. In other cafes it may be supposed, that the matter, formed by ulceration, either originates on the outlide of the ligamentous covering of the spine, or else burfts

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burfts from its confinement within that aponeurotic expansion, and making its way in the course of the ploæ muscles, produces that peculiar form of the disorder, to which the name of lumbar abscess is affigned.

Upon mentioning this idea, about two years ago, to a furgeon of eminence in this town, he fhewed me the vertebræ of a perfon who had been cured of a lumbar abfcefs, and afterwards died of a different complaint. Two or three of the anterior proceffes of the lumbar vertebræ had evidently been carious; but an anchylofis had taken place, laminæ of the offific matter uniting the vertebræ, and confolidating them into an inflexible mafs *.

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* Mr. Sheldon, Surgeon, defervedly celebrated for his anatomical abilities, favoured me with the fight of the vertebræ of a man, who had laboured under two lumbar abfceffes at the fame time. The bodies of the third and fourth vertebræ of the loins, the fpinal proceifes of which had been very protuberant in the living fubject, were nearly

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With refpect to the treatment of lumbar absceffes, it may perhaps be impossible to point out any mode of treatment whatever which shall prove successful. It may not, however, be improper to observe, that if the abscess be opened with a knife, the quantity of surface exposed to the air induces that degree of hectic fever, under which the patient generally finks; Nature, according to the just conception of Mr. Hunter, being exhausted by her exertions in attempting a cure of what it transcends her power to effect.

In fuch circumftances, would it not be reafonable to open an outlet for the collected fluid, as foon as the fluctuating tumor in the groin, and other fymptoms, fhall afcertain the nature of the complaint, by means of a cauftic applied to the moft depending-

nearly destroyed by ulceration, and the nerves, issuing through the foramina of the spine, in part obliterated by the ravages of the disease.

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depending part; and at the fame time to form large iffues on each fide of the fpinal proceffes of the firft or fecond vertebra of the loins? Thus might the matter already collected be gradually evacuated, without hazard of the mifchief generally attendant upon the exposure of a large internal furface to the free admission of the air, and at the fame time the cure of the injured vertebræ be promoted by the establishment of a new irritation, or drain, in the vicinity of the original difease.

I am inclined to believe, that many cafes occur not unlike to what I have just defcribed, and others of a nature apparently diffimilar, in which the timely application of the caustics would prevent the melancholy train of evils, attributed frequently, in the first stage, to other causes, but in fact, derived from a distempered spine. A careful attention to symptoms and disfections may perhaps hereaster afford

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us the means of detecting the latent mifchief in its first access, and thus enable us to prescribe a rational and effectual mode of cure.

CASE VIII.

T. R. was admitted into St. Bartholomew's Hofpital in October, 1778.

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He complained of a weaknefs in his lower extremities, for which, during a courfe of ten weeks, a great variety of nervous medicines was preferibed, without effect. No derangement during this period was fulpected in his fpine.

The diforder now rapidly advancing, his cafe was more accurately inquired into; a confiderable degree of protuberance was difcovered in three of the dorfal vertebræ, and the cauftics were applied. At this time

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time the use of the lower extremities was entirely lost; the diforder had proceeded to its final stage. He died within three weeks after the nature of his diforder was ascertained, and before it was possible for the caustics to have produced any sensible effect.

In his narrative he declared, that he did not recollect any firain or probable caufe of his diforder. The first fymptom was a numbnefs, which fuddenly feized his left instep, affecting him with the fensation of an heavy body firiking that part : a weakness followed in both his knees; a rigidity of the lower extremities ensued, with a total infensibility of those parts. He complained also of a sharp pain in the right fide of the thorax, proceeding from the affected vertebra. He never lost the power of excreting his urine or his stools.

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The following account of the appearances after death is drawn up, partly from my own papers, partly from the papers of a gentleman of great medical abilities, who attended the diffection *.

The body being placed with the face downwards, a rectangular portion of the spine, containing fix or seven vertebræ, with the three that were protuberant in the middle, were removed by the faw. Immediately under them was lodged about half a pint of fætid discoloured fluid, contained in a pouch, and in contact with the bodies of the vertebræ, which was prevented from entering into the cavity of the thorax by the aponeurotic expansion covering the spine. The bodies of two of the vertebræ were separated from the other proceffes of those vertebræ, and, together with the intervening cartilages, were almost entirely dissolved into a liquid cretaceous

* Dr Beerenbroek.

ceous fubstance. The vertebræ immediately contiguous had received but little injury, although their bodies were exposed to the fluid contained in the pouch: the aponeurotic expansion confining the fluid was much thickened; its colour almost black.

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The medulla fpinalis appeared perfectly found. The dura mater, where it lay expofed to the matter, was alfo black, but not eroded, except that a fmall aperture, as if made with a lancet, was difcerned on one fide, through which it was fuppofed the fluid of the abfcefs had penetrated, fo as to prefs upon the fpinal marrow itfelf. A portion of two or three of the dorfal nerves on one fide, in the place where they iffue between the vertebræ, was totally deftroyed. The capitula of the correfponding ribs were alfo expofed and confiderably eroded.

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CASE IX.

In the beginning of the year 1779, I attended a boy about feven years of age, who laboured under the fymptoms of obftruction in the mefenteric glands. His belly was prominent and hard, his ftools were flimy, and he was much reduced in confequence of an hectic fever, attended with cough, lofs of appetite, and reftlefsnefs. His manner of walking was aukward and irregular; and he frequently complained of a pain in the thigh of the right fide, and a violent itching in the groin.

Upon furveying the fpine, I obferved that fpecies of inflexion to which nofologifts give the name of fcoliofis, and upon a fecond examination, fome weeks afterwards, a flight degree of protuberance of the tenth or eleventh dorfal vertebra began to difclofe itfelf.

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I had tried fome of the ordinary remedies preferibed in ferofulous cafes, before the protuberance was difeerned, without much fuccefs. Upon the difeovery of this appearance, I earneftly recommended the application of the cauftics, according to Mr. Pott's directions, but my remonftrances were in vain. At the end of eighteen months, I faw this child bent almost double, the use of the lower extremities utterly lost, and with all the fymptoms of approaching diffolution, which took place in the course of a few days.

I am much inclined to believe that this child might have been faved by an application of the cauftics, immediately upon the discovery of the protuberance in the spine.

Since the time of my attendance upon the preceding cafe, I have very frequently feen children, nearly of the fame age, labouring under fimilar complaints, which I have [38]

have reason to presume were derived from the fame fource. In fome the lumbar vertebræ were evidently protuberant; in others, a small degree of protuberance might be observed in the lower vertebræ of the back, attended with pain upon the flightest touch. In all these cases there was a confiderable prominency of the belly, and other figns of obstruction in the glandular system. Is it not therefore reasonable to suppose, that one of the conglobate glands, of which many are found in the vicinity of the lumbar vertebræ, may frequently be the original feat of the difease; and that from thence the ulceration is extended to the vertebræ themfelves?

In other cafes there is ground for fufpicion, that the bodies of the vertebræ, or the intervertebral fubftance, are primarily affected, the fame fcrofulous difpolition inducing this diftemper, which is known fo frequently to affect the acetabulum of the thigh, thigh, the joints of the elbow, and the knee, with the corresponding ligaments; disorders to which the name of white swelling is commonly assigned.

When this diforder affects the eyes, or fuch of the conglobate glands as evidence themfelves to the touch, the nature of the complaint is quickly perceived, and iffues are ordered with fingular advantage. With equal propriety furely may fimilar drains be recommended in the neighbourhood of the difeafed parts, when the joints are affected, whether they be the joints of the extremities, or the articulations of the fpine.

The paralysis of the lower extremities, with a debility in the functions of the bladder and the rectum, which take place when the fpine is the feat of fcrofula, are the mere effects of the diforder, occupying the vicinity of large portions of that fubftance, which is the proper feat of fensib.lity [40]

bility and voluntary power; and therefore ought by no means to enter into the definition of the difeafe. Not only an erroneous description of a disorder, but even the affigning of an improper name to a complaint, as Mr. Pott has repeatedly observed, leads to an improper treatment of that diforder; and thus the art of medicine often perpetuates the evils, which it is its object to remove. In consequence of fuch mifconception, I have frequently feen the whole class of nervous medicines employed, and the Bath waters prescribed, to relieve the paralyfis of the lower extremities, when, after the cause of the disorder was detected, it was obvious that they must neceffarily have aggravated the difease; and I am very much inclined to believe that many other disorders, reputed nervous, are the effects of complaints merely local, and are frequently derived from fome affections of the vifcera of the abdomen, for which medicines of a very different operation should be prescribed.

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CASE X.

In the course of the last year I was defired to visit a perfon who laboured under an obstinate costiveness, and a complaint in his bladder. Upon my arrival at his houfe, I found that he had had no evacuation by ftool for the last fortnight, and that for fix months past, his urine, which abounded with a yellow fediment of a purulent appearance, came involuntarily from him, and without his perception. He complained much of spalms, and of pains affecting his calves, his ancles, the foles and the great toes of his feet, which were very excruciating when he fat up in bed. Hé felt the operation of medicines in the upper part of his bowels: in the lower numbness prevailed. It was with difficulty that he retained either food or medicine on his ftomach; G

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ftomach; his pulfe was languid, and his whole appearance evidenced him to be on the verge of diffolution, which in a few days afterwards took place.

Upon enquiry into his hiftory and preceding fymptoms, he informed me, that fourteen years ago he had received a bruife from being preffed between two carriages, which had caufed a vomiting of blood. That for three or four years paft, he had felt painful fenfations in his loins, from which period he dated the commencement of the diforder in his bladder.

On account of the pains in his feet, his complaints were treated as proceeding from rheumatifm or the gout, and Bath waters were prefcribed, but no advantage was derived from their ufe.

About a month before I faw him, a flight degree of fullnefs was obferved in the region gion of the os facrum; but it was never fufpected, that the original caufe of his diforder was feated in that part.

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Under a full perfuasion, that fome concealed mifchief in the neighbourhood of the os facrum was the fource of his complaints, after having procured an evacuation by the help of caftor oil, I directed cauftics to be applied to the protuberant part ; but he died before any feparation of the floughs had taken place.

Upon examination of the body after death, the colon, from its commencement to the beginning of the rectum, appeared confiderably enlarged, and much diftended with fæces; the bladder alfo was greatly enlarged, its mufcular coat præternaturally thickened, and its inner furface fafciculated; but no ulcer, erofion, or any other injury whatever was difcerned.

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Upon examination of the os facram, and uncommon derangement prefented itfelf to the fight, exhibiting the immediate fource of the patient's complicated complaints ; the pofterior furface of that bone was feparated entirely by caries from the anterior : the diftemper had also penetrated deep in its fubftance, having nearly obliterated those processes of the spinal marrow, which form the ischiatic nerve, and greatly injured the spinal marrow itself.

Upon an accurate furvey, every other part of the fpine, and all the vifcera, both of the thorax and abdomen, appeared perfectly found.

Although it was the main object and defign of this publication, to illustrate and confirm, as far as my feeble powers would admit, the doctrine of that able practitioner, who has deferved fo much of his country and mankind; yet, in the felection of the preceding

preceding cafes, and the enumeration of the fymptoms, attendant upon the various stages of this calamitous disorder, it was also my defign to afford materials, for an early investigation of the frequently concealed source of complaints, differenced from each other in their outward from, in origin fubstantially the fame. I have a fimilar end in view in the remaining pages of this tract, in which I shall with fidelity report such other particulars, as seem worthy of attention, felected from a great variety of cases, which fell within my immediate observation; the narrative first in order forming the only exception to this rule.

The hiftory, of which the following is an abstract, was communicated to me with fuch circumstances of credibility, as would not permit me to doubt of the accuracy of the report.

CASE

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CASE XI.

A boy, about twelve years of age, received a blow from a ftone, which ftruck his loins. In the evening of the fame day he was feized with a fhivering, which lafted about five minutes; a fever fucceeded, which ran high during the night, but abated towards the morning. At the fame period of time a contraction of his legs took place, attended with great debility of his lower extremities. He complained of pains all over him, but more particularly in his ftomach and the fmall of his back.

As the accident, which gave occasion to these fymptoms, was not known to the friends of the patient, the disorder was treated as a feverish complaint. It sometimes remitted, at other times a perfect intermission

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intermission of the feverish symptoms took place. The power of moving his limbs was daily diminished, until, at the close of ten days from the time of the accident, he was utterly incapable of listing them from the ground. At this period no swelling was perceptible on his back.

In about a month after the time of receiving the injury, his fituation was truly deplorable: his appetite was loft, his pulfe was quick and feeble: he was affected with a cough and purging, and the facies Hippocratia was evident to an extreme degree.

At this time a lump was difcovered, about the fize of a large egg, not much inflamed nor very painful, which comprehended the fecond and third vertebræ of the loins, not unlike a beginning abfcefs.

A large incifion was made into the tumour, and two beans inferted: a kindly fuppuration

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fuppuration took place on the third day, and at the end of a week he was confiderably better; his countenance was more enlivened, his pulfe improved, and the power of moving his limbs in part regained.

The iffue discharging freely, the swelling gradually abated, and in the space of a month entirely disappeared.

The iffues were dried up fooner than the gentleman who attended had directed. At the end of three months he was able to walk a confiderable diftance with little inconvenience, but every material change of weather very fenfibly affected him.

Few instances, hitherto observed, more strongly point out the operation and advantage of the issues.

CASE

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CASE XII.

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A labouring man for a length of time had been afflicted with the ordinary fymptoms, attendant upon an evidently distempered fpine. He was admitted into St. Bartholomew's Hospital, and the caustics were applied according to the prefcribed mode? At the end of a few months he fo far recovered, that he left the hospital, and returned to his work. The diforder returning, in consequence of too early an application to his employment, he a fecond time petitioned for affistance: the caustics were a second time directed; but being applied by a perfon, not under the immediate inspection of Mr. Pott, about three inches below the protuberance, they produced no effect, though continued for many weeks. At length, upon the remonstrance

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of a gentleman better acquainted with Mr. Pott's mode of treatment, they were renewed in the former place. The effect was quickly visible. At the conclusion of two months the patient was discharged in perfect health.

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A girl was admitted into St. Bartholomew's Holpital, afflicted with the diforder, termed St. Vitus's dance. Some of the vertebræ of the neck were very protuberant. The cauffics were applied, and, from the effects produced by their ufe, it was evident the convultive fymptoms were derived from a diffempered fpine. At the clofe of a fhorter period than is ufual in these cafes, the left the holpital, free from her complaint.

CASE

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CASE XIV.

I lately attended a lady, of a very delicate frame, who was frequently affected with pains in the stomach, nausea, soreness of the sternum, languors, hysteric risings, numbness, and cramps in the legs and feet. Her complaints, for the course of several years, were attributed to the gout; at length a protuberance was discovered in the spine: upon further enquiry it appeared, that this protuberance had fubfisted for fome years. She complained alfo of weaknefs in her ancles, want of feeling in her hands, and sensations as if one fide was upon the point of becoming paralytic, and a constant pain in the small of her back; the protuberant spinal processes of the affected vertebræ were tender to the touch: I advised the application of the caustics, but H .2

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but my remonstrances, as has happened not unfrequently in fimilar circumstances, have hitherto been urged in vain.

In the course of my attendance at St. Bartholomew's Hospital, and also in my private practice, I have not unfrequently met with complaints, arifing from a great variety of affigned causes, which bore a ftrong analogy to fome of the preceding cases. In several patients of a delicate habit of body, who in early life had experienced scrofulous complaints, I have obferved the joints of the knees to be feeble, swoln, and painful; the articulations also of the spine were similarly affected, many of them evidencing great fenfibility upon the gentleft touch, and in a slight degree protuberant. Palpitations of the heart, incontinence of urine, general debility, and irregular pains in the legs and feet, have accompanied these symptoms. In other instances, these pains have been termed rheumatic,

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rheumatic, by the patients or their friends, and have been attributed to the effects of cold. I have often had reafon to believe, that these complaints were the confequences of venereal indulgences, and that, after exhibiting the appearances of the diforder, described by Lommius * and other authors, under the name of *Tabes Dorfalis*, they sometimes terminate in a paralysis of the lower extremities and a carious spine.

In fome of the cafes which have fallen under my obfervation, the fymptoms, during the early ftages of the diforder, were conceived to be owing to the gravel, or to rheumatifm in the loins; and, in two or three inftances, to the gout. This, perhaps unavoidable, mifconception in the caufe of the diforder, naturally led to a mode of treatment, from which the patient not only received no advantage, but was alfo fubjected

* Vide Lommii Observat. Medicinal. pag. 216.

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jected to the hazard of lofing the feafor, in which the rational mode of cure could be productive of a falutary effect.

In two or three inftances I have observed, that the termination of fever has been attended with circumstances, that seemed to indicate an inflammation and consequent abscess, either in the spine itself, or its vicinity; but this I offer merely as matter of conjecture, not having sufficient authority, either from diffections or the effect of caustics, to affert the fact.

When I first attended to this fubject, I was inclined to believe that those parts alone, whose nerves are derived from the spinal marrow, below the injured vertebræ, or from its immediate vicinity, were affected with numbness, pain, paralysis, or spass have lately been observed in the hospital I attend, and others I have seen in private practice, in which

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which the upper extremities have been affected, although the disorder occupied parts of the spine, considerably beneath the origins of the axillary plexus. I conceive it would not be a matter of difficulty to explain this fact, as well as many others of a fimilar kind, from the doctrine lately advanced by the ingenious SCARPA, refpecting the nature and use of the ganglions of the nerves, and the confequent prevalence of fympathy in the nervous fystem; but it would be a departure from my purpose to introduce theoretical disquisitions into an effay merely practical. Whether the following cafe can be urged as an evidence of the fact, I will not positively determine; the detail of it, however, may perhaps answer some purposes of no less importance.

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CASE XV.

R. I. aged twenty-four years, was admitted into St. Bartholomew's Holpital in May, 1781.

Every attention poffible was afforded to his cafe by the phyfician. The following remedies were prefcribed : Mithridat. cum fpir. Minder. pil. aromatic—rad. val. fylv. p. femin. finap. a dr. j. cum decoct. cort. baln. frigid.—julep. volat.—ol. e pedibus bovin.—tinct. guaiac. volat. ter die—infuf. lenit. pro re natà—hauft. oleos. cum mannâ —enema Terebinth.—ol. ricini, fextis horis.

At the close of fix weeks from the date of his admiffion, upon the recommendation of the attending phyfician, he was examined by Mr. Pott. The tenth vertebra of the back was found confiderably protuberant.

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The following is an abstract of his symptoms at this period :

He lay constantly on his back, unable to turn himfelf in bed, and almost entirely deprived of the use of all his limbs. His legs, fix or feven times in an hour, were drawn upwards with convulfive twitchings, his great toes and fingers being also agitated with spasms. His head at the fame time was drawn violently backward; all thefe convulsive motions were attended with confiderable anxiety. Numbness prevailed in his loins, his knees, and feet. The fense of feeling and powers of motion were destroyed in almost every part of his frame: his abdomen was fwoln and hard: an obstinate coftiveness and difficulty of making water were fuperadded to these sufferings; a violent pain was felt in the protuberant vertebra, when he was under the influence of the spalms.

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It appeared from his hiftory, that he had been affected with the lues, and for fome years pass had been very much devoted to venereal indulgences.

The first fymptom that alarmed him, was a stiffness in his neck, which came upon him fuddenly in the night, about three months before the time of his admission. At the end of two months from the first feizure, his right leg began to be affected. The cold-bath was prescribed at this period, which aggravated his complaints. He gradually grew worse till a general coldness prevailed through the whole system, and every part of his frame was affected with paralysis or spason.

The application of the caufties was attended with very little advantage: through a defect of the vital power, they occasioned no pain; and it was with difficulty nature effected a separation of the sloughs: his diffresting

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distreffing symptoms continued till his death, which took place in about two months after the nature of his complaint was ascertained.

In two or three inflances I have obferved the upper cervical vertebræ affected. In one of these a collection of matter was found in the vicinity of the second vertebra, commonly termed dentata. The unhappy fufferer, upon every motion of his head, felt a pain descend in the course of the spinal marrow, with general numbres, and sometimes pricking pains at the extremities of his toes and fingers.

I am fenfible that the credit of a remedy frequently fuccefsful is often impaired by its injudicious, or too extensive application, yet, feeing every reason to conclude with Mr. Pott, that the advantage gained from the caustics is, in a great measure, owing to the new irritation, or discharge, occa-I 2 fioned

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fioned by them in the vicinity of the affected part, I cannot omit this opportunity of recommending their use in many idiopathic affections of the head.

Iffues in the neck have frequently been advifed, in cafes of apoplexy and palfy, by phyficians and furgeons of the greateft name. It is to be wifhed, that the effects of cauftics in removing the diftreffing fymptoms, attendant upon a diftempered fpine, may lead practitioners to a more general application of this remedy, when the primary fource of fenfation and motion is the feat of the complaint.

I am perfuaded, that if all the cafes of a diftempered fpine, which have occurred during the laft five years at St. Bartholomew's Hofpital, were faithfully and circumftantially reported, great advantage would be derived to medical knowledge, and the mode of treatment, recommended by

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by Mr. Pott, be still more evidently demonstrated. The interests of truth have nothing to apprehend from the keenness of investigation, and the utmost severity of human judgment. I should therefore wish to see the doctrine, advanced by that accomplissed practitioner, further discussed, convinced, that its harmony with truth and reason would be established by an appeal to fact : the hospitals of this metropolis and kingdom would afford too many opportunities of ascertaining this point.

I am fenfible that the preceding details are in many refpects imperfect: from an hope, however, that they may not be altogether unufeful, they are with deference fubmitted to the indulgent candour of the public.

It remains that I fubjoin the refult of my own experience and observation on this fubject.

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The general conclusions, fuggested by the preceding cases, and above twice the number of others, to which I have afforded a disting attention, are as follows:

1. That the cauftics, which were indifcriminately applied in every ftage of the difeafe, were the efficient means of cure in a majority of the cafes: and that they generally fucceeded, when the cafe could with propriety be termed a fair one.

2. That in the remainder, with two or three exceptions, they produced an evident effect in reftoring fenfibility and fome der gree of motion.

3. That in the unfuccessful cases, the patients died exhausted by hectic fever, and the genuine effects of the distemper, and did not appear to be prejudiced, in the remotest degree, by the application of the caustics.

APPENDIX.

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APPENDIX.

CASE OF CATALEPSY.

A LTHOUGH the fubjoined hiftory has no connection with the preceding cafes, I truft the perufal of it will not be unpleafing to my readers, as it relates to a diforder of unfrequent occurrence in ordinary practice.

In the latter end of the laft year, I was defired to vifit a young lady, who, for nine months, had been afflicted with that fingular diforder

diforder termed a catalepfy. Although fhe was prepared for my vifit, the was feized with the diforder as foon as my arrival was announced. She was employed in netting, and was paffing the needle through the mesh; in which polition she immediately became rigid, exhibiting, in a very pleafing form, a figure of death-like fleep, beyond the power of art to imitate, or the imagination to conceive. Her forehead was ferene, her features perfectly composed, The paleness of her colour, her breathing at a distance being also scarce perceptible, operated in rendering the fimilitude to marble more exact and ftriking. The polition of her fingers, hands, and arms, was altered with difficulty; but they preferved every form of flexure they acquired : nor were the muscles of the neck exempted from this law; her head maintaining every fituation, in which the hand could place it, as firmly as her limbs.

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Upon gently raifing the eyelids, they immediately closed, with a degree of spasm. The iris contracted upon the approach of a candle, as in a state of vigilance; the eyeball itself was slightly agitated with a tremulous motion, not discernible when the eyelid had descended.

About half an hour after my arrival, the rigidity in her limbs and statue-like appearance being yet unaltered, she sung three plaintive fongs, in a tone of voice fo elegantly expressive, and with such affecting modulation, as evidently pointed out, how much the most powerful passion of the mind was concerned in the production of her disorder, as indeed her history confirmed. In a few minutes afterwards she sighed deeply, and the spasm in her limbs was immediately relaxed. She complained that she could not open her eyes, her hands grew cold, a general tremor followed; but, in a few feconds recovering entirely

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her recollection and powers of motion, the entered into a detail of her fymptoms, and the hiftory of her complaints.

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She informed me, that fhe had no recollection whatever of what paffed in the fits; that upon coming out of them fhe felt fatigue, in proportion to the time of their continuance; and that they fometimes lafted for five hours, though generally for a much fhorter period.

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She further related, that the fits returned once or twice a day, fometimes more frequently; but that the never was troubled with them in the night. She fometimes loft her fight and fpeech, the power over her limbs, and her intellectual faculties remaining unimpaired. The fits frequently attacked her without any previous warning: at other times, a fluttering at her ftomach, and a fixed pain at the top of her head, occupying a part which the could cover

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cover with her finger, announced their approach.

Hyfterical rifings in her throat, appearances of fire, pains in her eyes, and not unfrequently in her teeth, flatulence, a fenfe of weight in her ftomach after eating, with convultive motions in the region of that organ, were fuperadded fymptoms, of which the much complained.

Her diforder was evidently exafperated at the approach of the catamenia, which were conftantly prefent at the regular period. She was always much agitated previoufly to a form of thunder; and every material alteration of the weather produced a fenfible effect.

After she had discoursed for some time with apparent calmness, the universal spasm suddenly returned. Her seatures now assumed a different form, denoting a mind K 2 strongly ftrongly imprefied with anxiety and apprehenfion. At times the uttered thort and vehement exclamations, in a piercing tone of voice, expressive of the passions that agitated her mind; her hands being ftrongly locked in each other, and all her muscles, those subservent to speech excepted, being affected with the same rigidity as before.

During the time of my attendance, fimilar appearances were frequently exhibited.

I was informed by the family of many particularities in the accefs of the diforder, all denoting its inftantaneous effect upon the nervous fyftem. She once was feized in my prefence while drinking tea, and became univerfally rigid, at the inftant fhe was advancing the tea-cup to her mouth. Her tears fometimes flowed copioufly, while every internal, as well as external fenfe feemed entirely locked up in fleep.

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I will now proceed to defcribe the progress of the disorder, and the mode of treatment, before the was intrusted to my care.

It appears, that for many years before the accels of the cataleptical fymptoms, fhe had fuffered much from violent headachs, particularly that fpecies of head-ach, termed clavus hyftericus. Her fpirits were eafily difcomposed. Her fingers, upon touching cold fubftances, would frequently lose their natural heat and feeling. Her habit of body had been uncommonly costive, but of late her bowels were much disturbed by every kind of laxative. Her nervous complaints were always particularly troubles for at the approach of rain, and after a fleeples night.

Her diforder commenced with hysteric fits; to these succeeded a delirium of several days continuance, attended with slight shiverings, but no other sign of sever: the catalepsy

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catalepfy followed next in order, which at first affected her with only fingle fits, at a week or fortnight's interval; these gradually advanced in strength and frequency, until, by her own sufferings, and her fensibility, on account of the anxiety of her friends, she was reduced to the most pitiable distress.

Before I faw her fhe had been under the care of a phyfician of eminence in the country, who had attended to her cafe with fingular humanity, and had prefcribed various medicines of the nervous kind; which at one time produced fo favourable an effect, as even to flatter with the profpect of a cure; but the fymptoms returning with increafed violence, through fresh anxiety of mind, the fame courfe of medicine was not attended with the fame fucces.

Musk, opium, and bark, the latter of which did not always agree with her bowels, were found most effective. Of

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musch she had taken to the amount of a drachm and a half each day. Its use removed a sense of chillness, of which she before had much complained. A few drops of laudanum at the hour of rest had also been attended with advantage.

After I had tried æther—liquor anodyn. mineral. Hoffm.—ol. effent. e flor. chamæm.—ol fuccini—extract. cicut.—rubig: chalyb. ppt.—fal fuccini—julep e camphorâ, and opium in a great variety of forms, without much advance, I found the following application had an evident good effect:

R. Opii colati

Camphoræ drach. i. Emplastr. stomach. q. s. f. emplast. regioni ventriculi admovendum.

Obferving the effect of this application, and reflecting upon the many tokens of debility [72]

debility which her ftomach exhibited, I directed my attention to the ftrengthening of that organ, and, notwithftanding the difcouraging circumftances that had formerly attended the exhibition of the bark, determined to make another trial of its power.

I chose the following form of preparation, which Dr. Whytt had found to be particularly serviceable in hysterical complaints:

> R Cort. Peruv. p. uncias duas, Rad. gentian.

Cort. aurantior. a drachmas fex, misce: infunde in spir. vinos. Gallic. lb. ii, in balneo arenæ, per dies sex & cola.

Finding upon trial that half an ounce of this tincture, the quantity directed by Dr. Dr. Whytt, though diluted with two ounces of water, was more than her stomach would bear, I prescribed as follows :

> R. Aquæ puræ unciam unam cum femisse,

> Tinct. præscript. drachmas duas, Spir. lavend. c. drachmam unam, M. f. haust. bis die sumendus.

Inftead of the common kinds of tea, I advifed her to drink an infusion of the outward rind of a lemon, which appeared particularly grateful to her taste and stomach.

She declared that she felt immediate benefit from this prescription.

She took fome drop's of Hoffman's anodyne liquor, or of laudanum, as occasion appeared to require.

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She perfifted in this courfe with evident advantage. Her fits grew lefs frequent, returning faintly after a week or fortnight's interval : her fpirits were improved, her ftrength encreafed, until at length, without the ufe of any other medicine she became entirely free from all complaint.

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