A treatise on the puerperal fever: wherein the nature and cause of that disease, so fatal to lying-in women, are represented in a new point of view illustrated by dissections. And a rational method of cure proposed, confirmed by experience / By Nathaniel Hulme.

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CITY OF LONDON LYING-IN HOSPITAL.



Front to the City Road .

Mylne Architect.

TIRIE A T I S E

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ON THE

PUERPERAL FEVER:

WHEREIN

The NATURE and CAUSE of that DISEASE, SO FATAL TO LYING-IN WOMEN, Are reprefented in a New POINT of VIEW ILLUSTRATED by DISSECTIONS;

AND

A RATIONAL METHOD OF CURE PROPOSED, CONFIRMED BY EXPERIENCE.

By NATHANIEL HULME, M. D.

Phyfician (in Ordinary) to The City of London Lying-in Hospital, And to The General Dispensary for Relief of the Poor.

Maxima è minimis sæpe oriuntur.

LONDON:

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> M DCC LXXI I. [Price Three Shillings.]



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had a determinate name, by which to

PREFAC

THE Puerperal Fever, is a difeafe peculiar to lying-in women. The term puerperal is derived from the Latin word puerperus; and, strictly speaking, signifies no more than childbed. But as this is the most dangerous of all childbedfevers, some writers, by way of eminence, have properly called it The puerperal fever, to distinguish it from The milk-fever, or any other, incident to women after delivery.

Notwithstanding this difease hath been common to lying-in women in all ages, and in all climates, and even been defcribed in the works of the first writer on the art of healing ', yet being generally looked upon, rather as a symptom or confequence of some other difease, than

HIPPOCRATES,

articular

a disease

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a disease itself, it hath been either entirely over-looked, or only fuperficially defcribed by the generality of medical writers; infomuch that we have fcarcely had a determinate name, by which to diftinguish it. Most authors have termed it, An obstruction, or suppression of the lochia; others, An inflammation of the uterus; some have called it, The lochial fever; some, After-pains; and, in the northern parts of Great Britain, it is faid to be named The weed. But I am clearly of opinion that the Puerperal Fever is as much an original, or primary difease, as the ague, quinfy, pleurify, or any other complaint incident to the human body. Phyficians have fo greatly differed likewife, concerning the nature, caufe, and treatment of the Puerperal Fever, that it remaineth, to the present time, a subject of much difpute 1. to altow add ni badiot

And what is of more fatal confequence than may at first be imagined, is the ignorance of people in general, and 'Vid, Chap. v.

particularly

PREFACE.

particularly of lying-in women and their attendants, respecting this difease; which caufes them either to neglect it, or to mistake it for After-pains, or some Colic complaint; and to this I afcribe, in fome measure, the great fatality attending it, as will be fhown more fully hereafter. It is of consequence, therefore, to the community, to be perfectly acquainted with the true nature, and danger, of this diforder; as it occafions the death of the greater part of those who perish in childbed ! to attend to all th men, and children. And that his fole atten-

Publick hospitals, for reception of the fick and hurt, are the grand feminaries of practical knowledge in the art of medicine. The utility of these institutions is fo apparent, that they are now univerfally received all over Europe. Great Britain in particular hath not been behind-hand, in promoting fuch humane defigns. Buildings of this kind, or which incidentally promote the fame end, are to be feen in almost every part of this great.

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great metropolis. Among the reft, THE CITY OF LONDON LYING-IN HOS-PITAL rifes up a fimple, yet elegant, monument of her beneficence!* There the industrious poor meet with a safe and tender ASYLUM, in the hour of diftres. But the bountiful hand of charity doth not ftop here; it is also stretched out to provide them every medical affiftance, under the various diforders which fucceed a ftate of pregnancy. With this view, the fupporters of that benevolent undertaking have a phyfician to attend to all the difeafes both of the women, and children. And that his fole attention may be fixed to this one great point, the wildom of that house directs, that he shall be a perfon who hath no connexion with the practice of midwifery; and be chosen under the name of Physician in Ordinary to that charity. The author

* This Hofpital is entirely fupported by a voluntary, annual Subfeription; whereby four or five hundred poor Objects are admitted every Year, and relieved with all Neceffaries during Childbed.

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ETCAC

harrichlar harright

PREFACE. v of this treatife, had that honour conferred upon him, fome time ago. This circumftance hath afforded him frequent opportunities of obferving the rife and progrefs of the diforder, now under confideration, and hath furnished him with many particulars in the following difcourfe.

In the defcription of the difeafe he hath endeavoured to feparate from it fuch fymptoms of other diftempers as have erroneoufly been afcribed to this, which precifion is of the utmost confequence in the defcription of every complaint; left one difease should be confounded with another, and the distinct knowledge of each be rendered dark, and intricate. For example, in the fcurvy, how many difeases, or fymptoms of difeases, as I have remarked elsewhere, have been attributed to that simple malady, which do not belong to it ? and how many volumes have been written to de-

* In Libello de Scorbuto, cap. i.

fcribe

vi P R E F A C E. fcribe its ffects, and manner of treatment?

But the author's principal defign, in treating of the *Puerperal Fever*, hath been to fearch into, and to difcover, its true origin and fource, and to fhow the various changes which it makes upon the human body; that we may be led to a more uniform, and certain method of cure. How far he hath fucceeded in his attempts, is humbly fubmitted to future experience, and to the judgment, and candour of the difcerning publick.

plaine; left one diffate fimuld be comtounded with another, and the diffinct knowledge of each be rendered dark, and intricate. For example, in the feury, how many diffates, or fymptoms of diffates, as I have remarked elfewhere', have been attributed to that fimple unlady, which do not belong to it? and how

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PUERPERAL FEVER.

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Description of the Disease.

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UPON the firft, fecond, or third day after delivery, but most commonly on the fecond, the patient complains of violent pain and foreness over the whole hypogastric region; that is, from the navel downwards. The tenderness is often so acute, that the gentless touch is almost infufferable. The belly feels commonly soft. A Some-

Sometimes it will be greatly fwelled; but, in general, at the beginning of the difeafe, it is not much more tumefied than what may be expected fo early after delivery. There is no inflammation, or other difcoloration, to be feen on the abdominal fkin.

Though the pain of the belly be general, yet it commonly affects fome one part in particular more than another. Sometimes the chief feat of pain will be in both the iliac regions; fometimes in one more than the At one time the region of the os other. pubis, or groin, will be the chief feat; at another, a violent pain will fix across the pit of the ftomach, and ftrike through the fhort ribs, on each fide, down to the fpine. The pains will often put on the appearance of labour-pains, and fhoot from the loins and belly into the groin and thighs. They are then generally miftaken, by the patient and her attendants, for after-pains, and being neglected, the difease quickly gains ftrength, and proves, by this means, too often fatal. When the pain lodges about the pubes, or groin, it will fometimes affect the anus, and Apagale. The belly feels commonly folt.

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Some-

neck of the bladder. But there is feldom any fenfe of heat, or throbbing pain, in the region of the *vagina*: and whenever this doth happen, it is probably owing to a different caufe.

The pains of the abdomen are generally preceded by greater or lefs degrees of rigor, or convultive thudderings with fenfe of cold. Sometimes there is no rigor; or, at leaft, fo flight as not to be attended to by the patient. And, indeed, the rigor, in general, is much lefs than what is obfervable in many other fevers. Nor is the violence of the fubfequent difeafe to be judged of by the degree of the preceding rigor. For fometimes a flight, or no rigor at all, will be followed by a fevere attack of the difeafe, and a great rigor by a flight attack. The wife of ROFFE, for inftance, began with a rigor which continued for an hour, and the recovered on the fixth day. The wife of COPE had no rigor, yet the difease proved mortal in a few days.

Though the first, second, or third day after delivery, be the common and almost constant times of the first beginning of the ma-A 2 lady,

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lady, yet it is not without its variations. For, fometimes, it will come on from the very time of delivery, or even before, and be confounded with, or loft, as it were, in the labour-pains; or it may not appear till after feveral days. But thefe are only to be confidered as varieties; however, fuch varieties as are always to be remembered by the phyfician, that he may not, at any time, be off his guard.

The patient, from the beginning, generally complains of a pain in the head, which is confined chiefly to the forehead, and parts about the eyebrows; this is frequently attended with a *vertigo*, or giddinefs in the head, and want of reft.

Richtras mosto be attended to by che patient.

There is much thirft. The tongue, on examination, commonly appears white, but feldom foul, and is foft and moift to the touch. A red line will fometimes run up the middle of it, and the whitenefs remain on each fide : in this cafe the red part is ufually dry, and the white moift. Sometimes the tongue will continue white and moift till the approach of death ; but, in general, before

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fore that period, it becomes very dry and rough, and changes to a dark brown colour, often with a mixture of yellow.

A general anxiety, or dejection of mind appears in the countenance, and the eyes participate of the fame diffrefs. The face is often flufhed, and fometimes there is a deep red, or livid colour fixed in the cheeks.

The fkin is generally hot and dry; but fometimes fo cool and temperate, that a perfon from thence could hardly know whether the patient laboured under any difeafe or not. Sometimes intermediate fweats come on all over the body, and thefe ufually relieve the patient; but they are more common when the difeafe begins to abate.

The pulfe, in general, is quick and weak; though fometimes it will refift the finger pretty ftrongly. At the beginning of the difeafe, it feldom beats lefs than a hundred ftrokes in the fpace of a minute; and, from this number, I have found it run on to one hundred and fixty. The intermediate pulfations were various. The most common number

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number was one hundred and twenty-eight; and the next general numbers were, one hundred and twelve, one hundred and twenty, and one hundred and thirty-two. The different habits of body, and circumftances of the diforder, will eafily account for thefe variations in the pulfe. When the difeafe proves mortal, the pulfe at laft becomes fo quick and weak as fcarcely to be numbered.

A fhortnefs in breathing, without any wheezing or noife in the breaft, generally accompanies the diftemper from the beginning. This commonly keeps pace with the degree of pain in the abdomen. For if the pain be very moderate, the fhortnefs in breathing is alfo very flight, or perhaps not at all perceptible; but if acute, the breathing is accelerated in proportion, and the pain is increased at every infpiration. I should be glad, in this article, to express myself fo as to be rightly understood. I call it a shortnefs in breathing rather than a difficulty, becaufe a difficulty in breathing may be attended with a full infpiration, and a defire of taking in a large quantity of air; whereas the breathing, I here mean to defcribe, is quite the

the reverfe; the infpirations are quick and fmall, with a fear and dread, as it were, of making a full infpiration; or, in other words, of dilating the thorax. The reafon of this, as I apprehend, is not, in general, owing to any complaint in the lungs, or cheft (except when the pains extend to the region of the flomach and ribs) but merely to the grand feat of the diforder being within the abdomen, and which, at every infpiration, is fqueezed, as it were, betwixt two preffes; by the diaphragm from above, and the abdominal mufcles from below. I almost shudder, with horror, when I confider the excruciating torments that must rack the distreffed patient, under these dreadful circumftances! But the reader can have no adequate idea of what I mean till he comes to understand the true feat of the difeafe, by the help of diffections. As the malady increases, the fhortnefs in breathing increases likewife, and before death clofes the fcene, the infpirations are often fo fmall that the cheft is hardly feen to move, and the breath feems no longer to diftend the lungs, but to be confined to the aspera arteria, or upper part of the thorax.

A cough frequently attends, yet is noways effential to the difeafe, but merely accidental: however it ufually proves troublefome, and, when violent, is not without danger; as may be learnt from what hath just now been hinted.

The patient, when the difease is violent, generally lies on her back, feldom turning on her fide or belly.

except awhen the pains ertend

Vomiting, with complaints of a load and ficknefs at the ftomach, are very ufual fymptoms; however thefe are far from being always prefent. What is thrown up is commonly either yellow, green, or of a blackifh colour. The vomiting will fometimes come on from the time of delivery, and not unfrequently precede it. When death approaches there is, for the most part, a continual difcharge by vomit of whatever is taken; and what is brought up, is commonly either green, or black.

The belly, at the beginning, is generally coffive. Sometimes it is very regular, at A other

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other times a *diarrhoea* attends. When this laft is the cafe, what is difcharged is ufually of a dark brown colour and very fetid; and the ftools are fometimes covered with a whitifh froth. Flatulencies in the bowels are very common, whether the belly be loofe or coftive. When the difeafe terminates in death, involuntary ftools are the general harbingers.

The patient at first often complains of fome difficulty in making water, and difcharges it in fmall quantities; but this ufually goes off after having a ftool or two. The urine, after ftanding for fome time to fettle, generally appears of a brown colour, and deposits a crude fediment half floating at the bottom of the glafs. What is meant by crudity in the urine is hard to define, and fcarcely to be learnt but by ocular demon-Aration. It is a cloud, or fettling in the urine, which the phyfician expects to be changed, or concocted, as it is commonly termed, by the progrefs of the difeafe, into a thick coloured fediment. But if a perfect flow of the lockia continues, during the diforder, then the urine, after fettling, gene-B rally

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rally appears red and inflamed. It is neceffary to remark this last circumstance, lest the phyfician should, at first fight, be deceived, and afcribe that to an inflammatory flate of the blood, which is owing merely to an innocent discharge from the uterus. As the difeafe abates, the urine, in common, puts on a remarkable change; it becomes turbid, ufually of a yellowish or clay-colour, not much unlike a decoction of Peruvian bark when cold; and deposits a thick yellowish fediment, frequently tinged with a mixture of purple. But the urine is not always fo regular in its appearance, for fometimes it will greatly vary : however, in general, when a crifis is forming, a diligent observer may perceive plain indications of it in the urine. When the diftemper ends unfavourably, the urine feldom changes, but continues pretty much the fame to the laft.

The *locbia*, or ufual difcharges after delivery, commonly lofe their florid complexion, and diminifh in quantity; but if the difeafe goes off foon, the natural flow generally returns. Sometimes, indeed, there feems to be

be very little change made, with refpect to the flow of the *lochia*. The difcharge will, now and then, appear quite black.

The patient, in general, does not complain fo much of want of milk, during the progrefs of this difeafe, as to prevent her fuckling her child; however the contrary will fometimes happen, efpecially if it be very violent, or a *diarrhoea* attend and the ftools be thin and watery.

have not remarked any presife time," or

Pain of the head is common to moft fevers, and although, in this malady, as obferved above, it be among the first fymptoms, yet it is attended with this peculiarity, that it feldom is accompanied with any *delirium*, through the whole courfe of the difeafe; unlefs perhaps a few hours before death. Nay, fometimes the patient will retain her fenses to the last, which, confidering the violence of the diforder, is very wonderful. Perhaps it may be owing to the rapid progress the diftemper generally makes, when it proves fatal; fo that there is not time for that change to be made in the brain,

as in many other fevers of longer duration: befides, the feat of this diforder is never in the head, but always confined within the trunk of the body.

The blood, when ordered-to be taken away in this difeafe, was generally fizy, with a quantity of yellow *ferum*. I do not remember ever feeing the blood in a diffolved ftate.

be thin and trates

I have not remarked any precife time, or critical day, that nature takes for the termination of the difeafe: but fhe endeavours to relieve herfelf by three different ways; by a *diarrhoea*, by urine, and by fweat. A *diarrhoea* is the chief way by which, as far as I have obferved, fhe is able completely to extricate herfelf; and this fhe often attempts from the beginning of the malady. The wife of FAREHAM, for example, was relieved from her diforder in forty-eight hours, by the kind efforts of nature in producing a *diarrhoea*. And the wife of GARRET was cured in twenty-four hours, by the like fpontaneous

CORREL C

taneous difcharge. Of the other two evacuations, fweating is the most effectual.

The reader will probably expect that I fhould have taken notice here of the lochia, as the most probable, and I might fay almost the only method by which nature could form a perfect crifis. It is true, that at the beginning of the diftemper, as faid above, there is frequently more or lefs of a fuppreffion or change made in the lochia, and a return of the fame when the difeafe begins to go off. But I do not remember ever meeting with an inftance where this malady was brought to a crifis by a flow of the lochia. Neither do I well comprehend how nature can throw off the difease this way, any further than by diminishing the quantity of blood, in the fame manner as an hemorrhage at the nofe, or bleeding at the arm would do. But a difcharge of blood alone does not appear, to me at least, fufficient to remedy the evil. Nor does nature make use of this way either to cure or prevent the difease; if she did, it would hardly follow fo foon after that copious

copious difcharge of blood, which fucceeds every delivery. The fuppreffion of the lochial difcharge feems to be in confequence of the diforder, and the return in confequence of its abatement. This may probably be owing to a spasmodick constriction of the uterine veffels occasioned by the pain within the abdomen, during the difeafe, and to a relaxation of them by its ceffation. Just in the fame manner as may be obferved, by ocular demonftration, in any large fresh external wound. For if an inflammatory disposition feize the veffels going to the part, the difcharge will become thin and ichorous; but as foon as the inflammatory confriction of the veffels is removed, by means of proper evacuations and a cooling regimen, the difcharge becomes immediately more free, and better conditioned. Be this, however, as it will, the truth is, as far as I have been able to difcern, that neither the lochia, nor even the uterus itfelf. are primarily affected in this difeafe, but only fuffer by confent; the fame as the bladder, or any other neighbouring viscus might do. The reason of this affertion will be explained srom! would hardly follow to foon after that copious,

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more fully, in its proper place, when we come to treat of the caufes of this difeafe.

It is almost needless to remark that this fever must, of course, be complicated with any diforder that the patient might happen to labour under at the time of child-birth. The chief that I have met with in this way, of any confequence, hath been the *phtbiss pulmonalis*. If any difease hath taken its immediate origin, as it were, out of the puerperal fever, and been combined with it, it hath been the peripneumony. I have met with several instances of this kind.

As to the miliary fever, fo common among lying-in women, it hath no connexion at all with the puerperal fever; and when it doth happen to be joined with it, I fufpect it muft generally be owing to an over-heated room, a warm regimen, an unfeafonable ufe of cordials, or heating medicines. The puerperal fever is a difeafe *fui generis*, of a nature peculiar to itfelf; and as fimple and regular in its appearance, for the moft part, as any diftemper incident to the human body. Infomuch

much that it is a matter of no fmall furprize, that phyficians in general fhould have either overlooked it, or have been fo irregular and confused in its description.

This fever, as to the time of its duration, will vary, according to the violence of the difeafe, the manner of treatment, and the time of the patient making her complaints known. In general, if it ends favourably, it may terminate in three, four, or five days from the time of complaining. The wife of LAWSON had her fever terminated even in twenty-four hours, by purging her with the fal catharticus amarus, notwithstanding the pains of the abdomen were very fevere, and the pulse at one hundred and thirty-fix. What is here to be underftood by the word terminate, is no more than that the pains ceafe, the fever abates, and the patient is out of danger. I do not mean that the fick perfon is able, in that time, to get up and walk about, as if nothing had happened. Undoubtedly the must require fome time afterwards, to recover her ftrength ; and even the weaknefs, from the preceding labour would demand - nous:

PUERPERAL FEVER. 17 demand that, exclusive of this intervening malady.

When the difease refists the efforts of nature, and baffles the affiftance of art, it generally proves mortal, as far as I have obferved, on the fifth, fixth, feventh, eighth, ninth, tenth, eleventh, or twelfth day, after delivery; the day on which the delivery happened, not being included. And this rule, as to time, I shall attend to through the whole of this difcourfe, unlefs where it is otherwife expressed. In this opinion I am fupported by GALEN. " A quo die, inquit, mulier pepererit, ab eo numerare incipias, non à quo cæpit febricitare : nam aliquæ secundo tertiove die, postquam pepererint, in febrem incidunt, atque ab eo plerique futuram crifim enumerant. Verum res secus habet; quum oporteat à die, quo fætum edet, enumerationem exordiri 1." And this obvious reafon may be affigned for it, namely, that the very hour of delivery can always be exactly afcertained; whereas the time of attack is often various, and uncertain. Sometimes,

> * In Prognoffic. Charter. Tom. viii. pag. 668. C indeed,

indeed, the diforder may be protracted to a much longer period; but then it generally either begins later than common, or is attended with fome particular circumftances. I have remarked that a *diarrhoea* coming on either at the beginning or afterwards, and continuing through the whole courfe of the difeafe, will fometimes rather tend to prolong than quicken the time of death. The wife of LINER, for inftance, had a *diarrhoea* from the first, which continued, at intervals, to the last, and she furvived till the eighteenth or nineteenth day after her delivery.

Before death, there is feldom that change made in the eye and countenance which happens in moft other fevers, unlefs juft at the very laft; and perhaps for the fame reafon as given above ¹. Nor do the teeth, in general, collect that brown or blackifh *fordes* which is fo obfervable in many fevers. A *delirium*, I have obferved before, feldom attends, and the fame may be faid of the hiccough and *fubfultus tendinum*.

* Page 11.

The

The pain of the *abdomen* generally abates, or entirely ceafes, for fome hours before death; but fometimes the patient expires in great agonies.

The difeafe happens at all times of the year, and is incident to women of all ages after delivery, as well to those who have had many children, as those who have had few. Such women as have fuffered great hardships, or exerted their strength beyond measure, during gravidity, seem to be more subject, to this malady, than others who have gone through that state with more ease, and tranquillity.

Having thus given a general defcription of the difeafe, I will collect into one point of view what I look upon to be its chief pathognomonic fymptoms, or characteriftic marks. Thefe are, an acute pain and great forenefs, over the lower part of the *abdomen*, attended with a fever, and commonly a pain in the forehead, happening foon after delivery. Although thefe figns are fufficient, in general, to diftinguish it from all other difeafes, yet it may be neceffary to particularize those with

C 2

which
which it hath the greatest affinity, and mark out some of their chief distinctions.

1. It may be diffinguished from *after-pains*, by the fever; by the exquisite tenderness of the belly, and the pain not being periodical, but continual.

2. From the *milk-fever*, by the pain and tendernefs of the *abdomen*; by the abfence of tenfion or fullnefs of the *mammæ*, or fhoot-ing pains about the breafts, and arm-pits.

3. From the *miliary fever*, by the general fenfations of pain and forenefs about the hypogaftric region, and greater colour in the urine; by a lefs degree of hurry, and confufion of the fpirits; by having no eruptions, nor fenfe of pricking or tingling in the fkin; and if thefe laft fhould happen, by their giving no relief, which, in the miliary fever, they commonly do.

4. From the *iliac paffion*, by the pain not being fo fixed to any particular fpot, as round the navel or the like; but being more diffufed over the *abdomen*, and confined chiefly

to

to the lower part of the belly; by the patient lying pretty ftill, and not twifting the body about, or preffing upon the belly with a view of relieving the pain; and laftly, by a *diarrhoea* either attending, or the body being eafily foluble by cathartics.

5. From the *flatulent colic*, by the attending fever, the abdominal pain and forenefs, and by the pains not moving about from one part of the inteftinal canal to another.

6. From an *inflammation of the uterus*, by not having the fenfation of a weight and tumour, and a continual burning, throbbing pain, in the region of the *uterus*, extending to the adjacent parts.

Ηιρρος κατες diffinguisheth an inflammation of the uterus, by the following figns: "Ην φλεγμαίνηται ή μήτρη, ψαύεται. Ην δέ τι σφακελίζη & παλιγκοταίνη, πῦρ ἔχει ἐξύ, ỳ μέγα, ỳ φρίκη σκληρή τα ἀμφί τα αἰδοῖα, ἐκπάγλως τὲ αἴδεται, ỳ δάκνεται, καὶ ὅρμῷ ѝ εἴ τις ἐπαφήσει τῷ δακτύλῷ, ỳ αῦβις κάκιον ἴχει ỳ ὀδάξεται, καὶ τὴν κεφαλήν ἀλγέει, ỳ το βρέγμα, ỳ εἰχλύς, ỳ ἱδρώς μετωπιδαῖος, τὰ ἄκρεα ψύχονται καὶ

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και τετρεμαίνεσι, ή κώμα έχει άλλοτε, ή έσα-אשנוע שא בשלאנו, סטלב ה טולי ביני מסודוה הסאλή, 2 σμαχος 8 παμπαν είρυαται την τροφήν μ' ή κοιλίη, κ' βοά, κ' άναϊσσει, και όδωμαται τό, τε πτρον, η τές βεβωνας, και τάς ίξυας, η παραφύσιας, και ταχύ Ανήσκεσιν: Si inflammatus fuerit uterus, vellicatur; quod si quid corruptum fuerit et recruduerit, febris corripit acuta et magna, borrorque durus partes circa pudenda; ferociter afficitur, mordetur, & concitatur. Ac si quis digito contigerit, rursus pejus babet, et pungitur, caput et finciput dolet, tum caligo, tum frontis sudor adest, extrema perfrigerantur ac tremunt, interdum etiam Sopor occupat, neque audire potest, neque aliquid uterus efficit; multum est cibi fastidium, neque stomachus, neque ventriculus omnino cibum attrabit; vociferatur, profilit, dolet pubem, inguina, et lumbos, et occultos pudendi locos, celeriterque intereunt 1."

Commentators differ with refpect to the true meaning of the word Javeral. CHAR-TERIUS, as we fee above, translates it velli-

De Mulier. Morb. lib. 2. cap. 50. Charter. tom. vii. pag. 827.

catur;

PUERPERAL FEVER. 23-

catur; Foësius hath it contrabitur. The common meaning of the word referreth to the touch; and HIPPOCRATES generally ufeth it in this very fenfe, as may be observed in FOËSIUS's Oeconomia, under the letter Y. I rather fuspect, therefore, that there is a corruption in this part of the text, and that the true interpretation fhould be thus: Si inflammatus fuerit uterus, tactui se ostendit : an inflammation of the uterus, may be known by the touch. Almost all authors, who have defcribed an inflammation of the uterus, confide in the touch as much as any thing, in order to difcover the difeafe. Indeed the fwelling of the uterus, and the fense of heat, which are infeparable from an inflammation of it, are the grand and leading ideas, and contain, of themfelves, a general though fhort description of the disease; and therefore are the likelieft to be first introduced by any author who is about to defcribe fuch a malady. After this, the more minute and particular parts of the defcription follow, as in the text.

The word $\sigma_{n,npn}$ also doth not interpret well with $\varphi_{p',n}$: horror durus is an odd, and un-

unmeaning expression. It would read much better, and be more descriptive, were it written $\sigma\varkappa\lambda n\rho\dot{\alpha}$, and made to agree with the latter part of the sentence, in the manner that Foësiys hath rendered it: $\sigma\varkappa\lambda n\rho\dot{\alpha} \tau\dot{\alpha} \dot{\alpha}\mu\phi\dot{\alpha}$ $\tau\dot{\alpha} \dot{\alpha}\dot{\beta}\phi\ddot{\alpha}\dot{\alpha}$: " partes circa pudenda duræ " funt."

I will take the liberty to give my own interpretation, of the whole paffage, and leave every one to do the fame. Si inflammatus fuerit uterus, tactui se ostendit. Quandocunque autem in eodem aliquid corruptum fuerit et recruduerit, febris acuta et vehemens cum borrore nascitur, et quæ circa naturalia sunt, indurescunt. Quam maxime afficitur, sensus quasi mordendi est, et cum impetu morbus accedit; digito verum admoto, iterum res pejus se babet, et aliqua quasi puncta sentiuntur. Dolor et capitis, et sincipitis adest. Oculi caligant, sudorque è fronte prorumpit. Extremæ partes membrorum frigent, et intremunt. Sopor quoque interdum urget ; neque facultas audiendi est, neque utero vis ulla inhæret. Cibi fastidium multum est, nec stomachus, nec ventriculus omnino alimenti tenax. Vehementer ægra clamat, fubito confurgit; dolent et pubes, et inguina, et lumbi.

PUERPERAL FEVER. 25 lumbi, et naturalium partes interiores, celeriterque moriuntur.

From AËTIUS we learn, not only the general fymptoms of an inflammation of the uterus, but those also which are peculiar to the different parts of that organ, when they happen to be principally affected. " Uteri inflammatio (inquit) ob multas causas contingit. Indicant banc muliebrium locorum, pubis, imi ventris, ac lumborum dolores ardentes. Et si digitus in os uteri submittatur, occurrit ad contactum, durum, clausum, fervens, ac retractum, præsertim si in ipso, aut in collo fuerit inflammatio. Nam ubi cavitas, aut fundus uteri inflammatur, imi ventris dolor ostendit, ut ne contactum quidem forts admittat. Et plerunque uterus ad inflammatum locum retrabitur, atque banc ob causam os, et collum ejus, avertitur. Differt autem ab ea quam fuprà uteri retractionem appellavimus, quia in inflammatione febris est acuta, et ardor intensus. Si verò posterior ipsius pars inflammata fuerit, dolor circa spinam magis bæret, et, compresso intestino recto, stercora detinentur. Anteriore autem parte inflammata, urinæ difficultas, aut stillicidium, consequitur ex compressa vefica,

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vesica, præsertim si dolor pectinem affligit. At ubi obliquos laterum locos inflammatio occuparit, inguina distenduntur, et crura gravantur, ac ægre moventur. Invalescente verd inflammatione, febres accedunt, doior capitis, stomachi afflictio per consensum, imi ventris tumor, ardor, distentio, gravitas coxarum, lumborum, præcordiorum, inguinum, femorum, horrores discurrentes, ac pungentes, pedum torpor, genuum perfrigeratio, extremarum partium exudatio, pulsus parvi ac densi, animi deliquium, exolutio. In augmento verò etiam fingultus, dolor tendinis, colli, maxillarum, sincipitis, oculorum præfertim in fundo. Urinaque ac stercorum recrementa supprimuntur. Et inflammatione adhuc magis acuta, febres augescunt, delirant, dentibus frendunt 1."

These marks taken collectively, and compared with the genuine and constant symptoms of the puerperal fever, will sufficiently distinguish the one difease from the other.

7. From the *cholera morbus*, by the coffivenefs that generally attends the puerperal fever,

¹ Aëtii Medic. Græc. &c. Per Janum Cornarium. Lugduni, 1549. pag. 1008.

at the beginning; and if it should commence with a diarrhoea, it is eafily diftinguished from that of the cholera, by its not being fo fudden, fo painful and profuse, nor finking , the patient fo much; but, on the contrary, giving generally immediate eafe, ftrength, and fpirits. Neither is it attended with that violent degree of vomiting as the cholera, nor with those fpasms and contractions in the limbs. Befides, the cholera is confined chiefly to the close of fummer and beginning of autumn, as regularly, fays SYDENHAM ', as fwallows come in the beginning of fpring, and cuckows towards midfummer, whereas the puerperal fever happens all the year round. In a word, the complaints coming on foon after delivery, the pain and forenefs being diffused over the hypogastric region, together with the general appearance of the diforder, will, at once, diftinguish it from the cholera morbus.

· Sect, iv. cap. 2. pag. 175.

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CHAP.

CHAP. II.

Of the Prognostics.

THERE is fcarcely any difeafe, in the hiftory of Phyfic, where delays are more dangerous than in the puerperal fever. And yet, unfortunately for the patient, there is no difeafe which is more apt to be neglected, or trifled with; or, what is worfe, injudicioufly treated, through the ignorance of the lying-in woman, and her attendants.

The patient, as hath been obferved ', frequently miftakes her complaints for afterpains, and thinking they will gradually go off, neglects to make her cafe known and apply for proper aid. The by-ftanders fall into the fame error, or taking it for fome colic complaint, keep the patient hot, ply her plentifully with fpices and caudle, and give her fpirituous waters or warm medicines, under the notion of cordials. By thefe means

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the

PUERPERAL FEVER. 29 the malady is greatly increased, makes quick ravage, and becomes, in a short time, inevitably fatal.

Nurfes, and women in general, feem, in a great measure, ignorant of fuch a difease as this being incident to lying-in perfons. I dare venture to fay that the very name of it is as much a ftranger to most of them, as if no fuch malady exifted; and yet there never was a time when this difeafe did not exift. The confequence is, that knowing no danger, they fear none; whereas, on the contrary, they should be taught to dread the name of puerperal fever, as they would the name of pestilence, or plague; for I fear that. the one deftroys not more than the other. Like a fierce and untamed enemy, the one fpreads his hoftile banners in open day, and feafts on carnage and destruction, till, glutted with flaughter, he himfelf finks down and dies ! But the other, like a fecret revengeful foe, flabs in the dark to the very vitals, and though he kills one only at a time, yet he is privately flaying every day, and never fatiated; thus making up by length of time, what the other does by a fudden devastation ! They

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They fhould be taught to know, I fay, that pain and forenefs of the belly, coming on foon after delivery, unlefs fpeedily relieved by judicious affiftance, will prove mortal in a few days! They fhould be taught to know that thefe complaints are attended with a fever, which is called the puerperal fever.

I cannot fay how it may be with other phyficians, but, for my part, I never hear a childbed-woman complain of a pain and tendernefs of the abdomen, but I look upon her diforder with as much anxiety and circumfpection, as if I knew her actually labouring under an inflammation of the bowels, or a bernia with a strangulated gut; and think it my duty to be as expeditious in relieving the one complaint as the other. I have dwelt the longer on this head, in order to fhow the neceffity there is, in this difease, of the phyfician being made acquainted with its appearance in time; and to apprize the patient and her attendants, of the great and imminent danger attending a neglect. Let us, therefore, return to the prognoffics.

By carefully attending to the pulfe and refpiration, much may be learnt refpecting the fate of the patient labouring under this difeafe. If the pulfe be very quick, and the refpiration frequent and fmall, it portends great danger. If, on the contrary, the pulfe become flower, the breathing more free and full, it is a certain fign of a change for the better. The degrees of these are to ascertain the degree of danger, or fafety, of the patient. A quick pulse, fingly confidered, is, at all times, a dangerous fymptom; and the more fo, if very weak and fmall. The contrary indicates fafety. If the pulfe does but once begin to become daily flower and flower, as from one hundred and twenty-eight to one hundred and twelve, then to one hundred, or the like, it is to be efteemed as one of the best figns. But if it continue at the fame number, or rather quicken, it always threatens danger; or if it be found changeable, being one day quicker and another day flower, it is ever to be fuspected. Nay, fo infallible is the beat of the pulfe, with refpect to number, that though all the other fymptoms thould abate, and the difease seem to be gone off,

off, yet if the pulfations do not decreafe in proportion, a relapfe, or fome other diforder, is to be feared.

A diarrhoea coming on at the beginning, if followed by a flower pulfe, prognofticates fafety. But if, after evacuations by ftool, whether procured by nature or art, the pulfe fhould not become flower, it is to be reckoned as one of the most dangerous fymptoms. A perfon feized with this fever having had a costive body, during pregnancy, is threatened with more danger than if the belly had been regular.

If the difeafe be neglected in the beginning, it is frequently mortal; but if affiftance be called in due time, it often eafily yields to medicine.

When figns of the malady come on immediately from the time of delivery, it is commonly productive of evil.

If violent pains fhoot acrofs the epigaftric region, through the ribs to the back, with a difficulty in breathing, and a quick pulfe, the

the difeafe will generally prove mortal, within the feventh or eighth day, from the attack.

Want of fleep is not a favourable fymptom. When the patient turns herfelf, and lies upon her fide, it fignifies a change for the better.

A whitifh, moift, and foft tongue, is no bad fign; but when it begins to be clear, it indicates fafety. When the tongue becomes dry, and rough, and changes its colour, let the phyfician be attentive to the fate of his patient.

A fixt colour in the cheeks, with a livid hue, portends no finall danger.

Partial fiveats confined to the face, neck, and breaft, indicate no good. When they are general, and attended with turbid urine and a flower pulfe, the phyfician may encourage his patient.

A fresh flow of the lochia is an eligible fign.

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If the urine continues crude, and of the fame colour as at the beginning of the diforder, it prognofticates ill. Turbid urine, of a clay or yellowifh colour, with a thick fediment, tinged with purple or red, is a token of recovery.

A cool foft fkin, as of one in health, unlefs it be joined with other favourable marks, is only a flattering fymptom.

A frequent difcharge, by vomit, during the courfe of the difeafe, of a green or black colour, is generally mortal. Death is fpeedily to be expected, when the pulfe becomes fo quick and weak as fcarcely to be numbered, when the patient throws up every thing that is given her, when the ftools flow involuntarily, and a cold clammy fweat hangs on the extremities.

CHAP.

CHAP. III.

Of the Diffections.

WILL make, a few general obfervations, by way of preface. At the time of death, or fome hours after, the whole abdomen was commonly found much fwelled, but foft, and no way difcoloured, unlefs by the veins which fometimes branched upon it. At other times, it was not in the leaft tumefied, but had rather the contrary appearance, being funk down and flat: this feems to happen mostly in those cases where there hath been a profuse diarrhoea, during the course of the difeafe. Upon cutting into the abdomen, the membrana adipofa, abdominal mufcles, and peritonæum, were always found in a found state, except where it is otherwife expreffed. All the bodies were opened about twenty-four hours after death. The manner in which I propofe treating this part of my difcourse is, first to give a general history of the cafe, and then the diffection. In doing this, I shall confine myself entirely to the fymptoms of the difeafe, or fuch other circumftances

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ftances as might happen to the patient before delivery; and which may tend to illustrate more fully the nature of the cafe. I shall not, at prefent, make any observations upon the morbid appearances after death, but leave the reader perfectly free to draw his own conclusions.

CASE I.

The patient, who is the fubject of this diffection, had an eafy labour, and this was her fecond lying-in. The pains were fevere all over the lower part of the abdomen, which was affected by the flighteft touch, but particularly in the right iliac region. A loofenefs attended from the beginning, and the difcharge was fetid. A vomiting alfo came on, at the fame time, first of a green, and afterwards of a blackifh colour. Both the purging and vomiting continued to the laft. The urine was, at the beginning, high coloured; but afterwards changed to a more brown colour with a crude fediment. The pulfe, from the first, was at one hundred and thirty-fix and weak, and before fhe died, fo quick and fmall as fcarcely to be numbered. There

There was a difficulty in breathing, owing, as fhe faid, to the acute pain in the abdomen, which was greatly increased every time she drew in her breath. The tongue was white, and there was much thirft, and fever. She had a pain in her head, and could get no reft. The day before she died she thought herself much better. She used to complain of a pain in her belly, for fome time before the was delivered, but was, otherwife, in health. She was strongly prepoffested with a notion, for a long time before delivery, that fhe fhould die in childbed. There was no hiccough, nor fubsultus tendinum; neither was she delirious, but retained her mental faculties perfectly to the time of her death. The difeafe proved mortal on the feventh day after delivery.

DISSECTION.

The *abdomen* was not fwelled. Upon exposing the *viscera* a quantity of fetid liquor difcharged itself, which was found floating among the intestines and in the *pelvis*. The *omentum* was greatly inflamed, and partly in a mortified flate. On the right fide, a little below

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A TREATISE ON THE

below the fhort ribs, part of the omentum was thickened, and very much gangrened, and, when fcarified with the knife, difcharged a quantity of flinking liquor, which feemed to be contained in cells. The inteffines were not diftended with air, as is generally the cafe in this difease, but adhered to each other as if they had been flightly glued together. Small portions of a whitish or yellow substance, feemingly fat, fluck here and there between the folds of the inteffines, as if they had been pasted to them. The intestines were in general inflamed, but particularly on the left fide of the abdomen, where there also feemed to be a tendency to a gangrene. The vagina, and external parts were unhurt. The uterus was perfectly found, and contracted into a fmall compass, and lay concealed within the cavity of the pelvis. Nothing remarkable was obferved in any of the other abdominal viscera. The contents of the thorax were not examined.

CASE

CASE II.

The fubject, of this diffection, was twenty-one years of age, and this was her first child. She had a fafe and eafy labour. She was a healthy woman, excepting a flight pain in her left fide, and a little difficulty in breathing, which fhe complained of, for a month or fix weeks before the was brought to-bed. The difeafe began, on the fecond, or third day after delivery, with a violent pain and tendernefs all over the abdomen. Thefe fymptoms were accompanied with a fever, and fevere fhooting pains acrofs the pit of the ftomach and fides. There was a cough and difficulty in breathing. A vomiting attended, from the beginning, first, of a green, and afterwards of a dark coloured matter; pretty much the fame, as was afterwards found, in the flomach, upon diffection. The vomiting continued till death. At first the belly was coffive, but afterwards loofe, and the ftools were fomewhat black and fetid. The abdomen was a good deal fwelled. The urine was of a brown colour, and had a crude brown

brown fediment. Once the fediment changed to a whitifh colour, but returned again to a brown. The tongue was dry, and the thirft great. The pulfe at firft beat one hundred and forty in the fpace of a minute, and was weak, but, before death, it reached one hundred and fixty, and was fcarcely to be felt. Profufe fweats came on at the beginning of the difeafe, but as it increafed they went off. There was no *delirium*, *fubfultus tendinum*, nor hiccough. She died, in great agonies, on the eleventh day after delivery.

DISSECTION.

The *abdomen* was much tumefied. Upon penetrating into its cavity, there rufhed out a quantity of fetid air, and a liquor, of the fame odour, mixed with *pus*. The *omentum* was found in a gangrenous flate and thin, having loft the greateft part of its fat. The mortification had particularly feized the inferior portion of the *omentum*, which was dragged down, towards the left fide, fo as to reach into the *pelvis*, and, by the diftention of the inflated inteflines underneath, was

was preffed clofe, in that part, against the os pubis. The ftomach and inteffines were greatly diftended with air, particularly the former. The cæcum was also much inflated, but contained little elfe than air: the few excrements, that were in it, were thin, and of a dark colour. In the ftomach was found a quantity of thick, blackifh fluid. The veffels on the furface of the inteffines and ftomach, were, in different places, diftended with blood. The inteffines flightly adhered to each other, as if pasted together, and small parcels of a fatty fubftance, of the fame kind as those mentioned before, fluck fast, in various places, betwixt their feveral convolutions, and, in fome meafure, glued them together. The uterus was in a found ftate, and lay hid, within the pelvis. Both lobes of the lungs were inflamed, and fomewhat black, particularly in their most dependent part. No alteration was found in the pleura. Nothing particular was difcovered in any of the other viscera.

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CASE

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CASE III.

The perfon, who is the fubject of the prefent diffection, was thirty-four years of age, and this was her fecond childbirth. She had an eafy labour, and made no complaints, either before or after delivery, till the third day. She began with a fhivering, fucceeded by a fever. This was followed by an acute pain all over the abdomen, but efpecially over the region of the ftomach, fhort ribs, and down to the fpine. A fhortnefs of breath, and vomiting attended. The difcharge was green. The belly was neither coffive, nor She preferved her fenses entire. No loofe. hiccough, nor subsultus tendinum came on. The difease terminated fatally, on the fixth day, after childbirth.

DISSECTION.

The belly was greatly fwelled. The fkin of the whole body was of a tawny, or yellowifh hue. Upon viewing the abdominal contents, the *omentum* was found greatly mortified.

fied. A yellow, fetid liquor, with a mixture of pus, filled the pelvis, and floated among the inteftines. The whole inteftinal canal was diffended with fetid air, but particularly the great flexure of the colon. A general inflammation appeared fcattered, in various parts, over all the inteffines. The ftomach was not diftended with flatus, but lay concealed under the liver, which was of an extraordinary magnitude. It had pufhed itfelf, as it were, high up into the cavity of the thorax, and carried the diaphragm along with it; to which it adhered fo firmly, in its whole convex furface, as not to be feparated. In the right lobe was found a very extensive abfcefs, filled with hydatides, fwimming in a fluid which was void of all fmell. The hydatides were perfectly round, and of various magnitudes, from the fize of a hen's egg, to that of a hazel-nut. They were composed of a thick gelatinous fubstance, fomewhat of a brown colour, but pretty transparent, and fo firm as not to be deftroyed by handling. The reft of the liver appeared to be quite found. The gall-bladder was pretty large, and full of bile. The lungs were of a remarkably finall fize, denfe, and livid; they did F 2

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did not adhere to the *pleura*. The *uterus* was quite contracted, and lay concealed within the *pelvis*: its fubftance was formewhat thicker than ordinary, but of a firm texture, and perfectly found.

CASE IV.

This was her fecond lying-in, and fhe was about twenty-eight years of age. She had complained of pains in the abdomen, for fome time before delivery, and told her companions afterwards that fhe had got a hurt in her belly, but did not defcribe the manner how, or the particular part where fhe had received the injury. However, the made no complaints to her phyfician till about the first or fecond day after delivery, when she was feized with a fever, and fevere pain and forenefs all over the hypogastric region, attended with a vomiting. The matter thrown up was at first of a yellow colour, but in the progrefs of the difeafe changed to a green. A diarrhoea came on at the fame time, which continued till death. The belly was never fwelled, but, in a manner, quite emaciated. The

The pain ceafed, a day or two, before fhe died. The difeafe proved mortal on the eighteenth day after delivery.

DISSECTION.

The abdomen was not tumefied, but quite fhrunk. The viscera being exposed to view, the whole omentum appeared in a gangrenous ftate. The lower part reached down into the pelvis, and was entirely mortified, and had a most offensive smell. Its under furface lay upon the uterus, its upper fluck, as if glued, against that part of the abdomen near which the musculi pyramidales take their origin, or rather a little more to the left fide. It had tinctured the external furface of the uterus with a variety of dark brown fpots, fo as to make it appear variegated, or marbled; and had infected with an actual gangrene the peritonæum and muscular flesh, at the place, above the pubis, just now mentioned. It had alfo made an impreffion, of the fame nature, upon the ovaria, and Fallopian tubes. The omentum likewife adhered clofely, through the whole compass of the abdomen, to the peritonæum above, and the inteftines below,

as

as if pasted to them. On the right fide, in the iliac region, an abfcefs had formed in the fubstance of the omentum, which, being opened, difcharged a quantity of purulent matter. A general inflammation had fpread itfelf, over the coats of the inteffines, in various parts, and in fome places they feemed to be changed to a dufky colour. The fubstance of the uterus, notwithstanding the discoloration on its furface, upon diffection, appeared altogether firm and found; it was properly contracted into a fmall compafs, and lay funk within the pelvis. Therewas no fetid water, nor any other liquor, found within the cavity of the abdomen, except a very finall quantity which moiftened the bottom of the pelvis. The intestines, the omentum, and all the other parts within the abdomen, were remarkably dry; much more fo than in any other body, which I have feen opened, affected by this difeafe. Neither was there any kind of flatus confined within the cavity of the abdomen, or inteffines. Yet the parts difeafed, in this fubject, were contaminated with fuch a gangrenous stench, as fcarcely to be endured.

CASE

CASE V.

She was thirty-three years of age, and made no complaints before delivery. She was fafely brought to-bed, and had an eafy labour. This was her feventh, or eighth child. The difeafe began on the third day after childbirth. There was a violent pain, and acute forenefs all over the abdomen, accompanied with a fever. Severe pains alfo fhot across the region of the ftomach, and down through the fides. A perpetual pain affected the head. She had, too, a difficulty in breathing, and a frequent cough. The tongue was dry, and had a brown ftreak down the middle. She had a purging, from the first, which continued till death; and, before that fatal period, a vomiting fucceeded, but no hiccough, nor subsultus tendinum. Her breath was very fetid, and of fo acrid a quality as to caufe a fharp difcharge from the noftrils, for a week or ten days together, of a perfon who happened to receive part of it by the nofe, as fhe was attending her. She did not furvive the feventh day after her delivery.

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livery. She retained her fenfes perfectly to the end, and expired in great agony.

DISSECTION.

The abdomen was fwelled. Upon laying open its cavity, the omentum appeared very much inflamed, and fomewhat gangrened. All its fatty fubftance was nearly deftroyed, feemingly by fuppuration, and little remained, of that viscus, except a thin membranous web with pretty large veffels, branching over it, diftended with black blood. In fome places this thin web was worn, as it were, quite through; being found perforated with A yellow fetid liquor mixt with pus, holes. and minute pieces of a fatty fubftance, were found in the cavity of the abdomen and pelvis; but mostly in the latter. The stomach and inteftines were greatly inflated, and had their capillaries, here and there, diffended with blood. The latter flightly adhered to each other, and had the fame fort of fatty fubftances pasted, in divers places, betwixt their feveral convolutions, which have been defcribed above. The lungs were found in an inflamed

inflamed state. The *uterus* was quite found and contracted, and lay concealed within the cavity of the *pelvis*. Nothing remarkable was observed in any of the other viscera.

CASE VI.

This patient made no complaints before delivery, but after her death I learnt that, during her maiden state, she had been subject to profuse, and dangerous, uterine hemorrhages. Her age was twenty-fix years, and this was her fecond lying-in. She was fafely delivered about ten o'clock in the morning, and was feized the next day about feven in the evening. She complained of a violent pain and great foreness all over the abdomen, from the os pubis up to the cartilago enfiformis, attended with a fever. Though the pain was thus general, yet fome particular parts were affected more than others. The pit of the ftomach was the chief feat of pain, the next was in both iliac regions tending upwards to the fhort ribs, and the other was directly above the symphysis of the os pubis. No rigor, or fense of cold, preceded the attack. The G

The pain, at the pit of the ftomach, ftruck acrofs the fhort ribs, and down into the back. The belly was very little fwelled at the beginning, but a good deal fo before death; yet always remained foft. She had no pain in making water. There was no fenfe of heat, or throbbing, about the region of the uterus, or vagina. The difeafe began with a diarrhoea, and the discharge was fetid, and frothy. During the whole state of pregnancy; her body was always very coffive. There was a pain in the head, principally in the fore part. Her thirst was very great. The tongue kept moift, and white, till the day before fhe died, when it became red and dry. Her pulfe from the beginning was very weak, and beat at the rate of a hundred and fixty times in a minute; and at length became fo quick, and fmall, as not to be counted. The ikin was temperate. Sometimes general fweats broke out, but in common they were partial; being confined chiefly to the face, neck, and breaft. The lochia, for the first two or three days of her diforder, were of a)roper colour, and in fufficient quantity; afterwards they diminished in both, but never quite left her till she died. She had a very fmall

fmall flow of milk. Her breathing was difficult: the infpirations were very quick and fmall, and increafed her pains. She had no fpitting, nor complained of any cough, till fhe was afked very particularly about that circumstance, and then she faid she had a little incitement, to cough, now and then. The urine at first was very high coloured, which I attributed to the flow of the lochia; for as they diminished it changed to a brown colour, attended with a crude fediment, both which continued till death. She got no reft till the fecond or third night, and was difturbed out of her fleep by dreaming that her phyfician came to her bed-fide, and bade her put out her tongue, the impression of which was fo ftrong, that she immediately put out her tongue, and awoke; her flumbers in general were fhort, and interrupted by dreams of various kinds. On the fourth day, of her diforder, she vomited flightly twice; the difcharge was fmall in quantity, and of a dark colour: she vomited no more after this except once, which was near the time of her death, and what fhe threw up was very fmall in quantity, and of a dark yellow. I was much furprifed to find that every thing the took flaid with G 2

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A TREATISE ON THE

with her, and that no continual vomiting came on, as is ufual in this difeafe, when it proves fatal, which I could not account for till the body was opened; when the ftomach was found fo greatly diftended as to be rendered, in a manner, quite paralytic. She complained much of wind in her bowels. The alvine discharge, at the latter end of her diforder, was not fo offenfive in fmell as at first. It was of a dark yellow colour, very much refembling the liquor that was afterwards found, in the ftomach and inteftines, upon diffection. She retained her fenfes to within a very few hours of her death, when the became fomewhat delirious. The teeth contracted no foulness, neither did the eyes fuffer that change which is observable in many other fevers. No hiccough, nor fubfultus tendinum came on. The day before the expired, the pains entirely ceased, and she thought herfelf better; but this was only a prelude to a general diffolution: for the fhortnefs in breathing increased, the pulse became weaker and weaker, a cold fweat fupervened, and clofed the scene on the fixth day after delivery !

DIS-

DISSECTION.

The body was very much fwelled. Branches of veins appeared on each fide, running from the groin upwards, and were of a lively green. Upon difplaying the contents of the abdomen, the finall inteftines were feen greatly diftended with air. On the right fide of the abdomen they appeared of a filver colour, with their capillaries, filled with blood, fcattered here and there over their furface. On the left fide they had loft a good deal of that filver brightnefs, had put on a dufky colour, and had their coats more thickened on this fide than the other. That part of the inteftinal canal lying in the centre of the abdomen, immediately above the os pubis, laboured under a recent circular inflammation, of about four fingers breadth diameter, but without any excoriation, or lofs of fubstance, and a quantity of pus was found adhering to the integuments that lay over it. No appearance was to be feen of the liver, or colon; those two viscera being quite hid by the great inflation of the fmall inteffines, and ftomach.

ftomach. This last viscus was inflated to an amazing degree. It came fweeping down from under the ribs, of the left fide, and filled the whole scrobiculus cordis. It preffed fo ftrongly against this part, that, when the integuments were divided, it rushed out, and being confined by the ribs on each fide, formed the appearance of a bladder filled with air, of a triangular shape, its apex pointing upwards. The winding of the inteffines ran up close to the base of this triangle, and preffed against it. The omentum was drawn, or pushed, quite up, and lay rumpled upon the great arch of the colon. It was very thin, little remaining except its membranous part. On the right fide, a portion of it, extending from below the fhort ribs, was highly inflamed, and, in fome measure, gangrened. That part, on the left fide, which is fixed to the longitudinal fciffure of the fpleen, was found in the fame state. And that portion of the omentum, which is connected to the convex fide of the upper extremity of the ftomach, was also much inflamed. A large veffel, diftended with blood, furrounded the great arch of the ftomach, like a garland, and fent off branches which fpread themfelves upon

on the omentum. Minute capillaries likewife ran branching from the omentum upon the external coat of the colon. Towards the upper extremity of the ftomach, on the back part, an inflammation, of an oblong fhape, had taken place, fpreading about two or three inches. Upon opening the ftomach, its rugæ were found quite obliterated; it contained a great deal of air, and a quantity of thick liquor, of a dark yellow colour. The inteftines did not adhere to each other, neither were there feen any of those portions of fat, mentioned in fome of the former diffections, adhering between their various circumvolutions. They contained a great deal of air, and pretty much the fame fort of fluid as was found in the cavity of the ftomach, only of a thicker confistence. The liver was of a fmaller fize than common, of a pale colour, as if it had been boiled, and its fubstance was very tender. The gall-bladder was fmall, and half filled with thin bile. The uterus was lefs contracted, in this fubject, than I have generally obferved in thefe cafes, and lay flabby, and loofe, in the cavity of the pelvis; but, in other refpects, it was perfectly found. The placenta had adhered
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to its upper part, and a dark coloured mucus lined its whole cavity. Above a quart of yellow liquor, mixed with pus, was found in the cavity of the abdomen and pelvis. Both lobes of the lungs were blackifh, and affected with inflammation. A pretty large quantity, of thin bloody liquor, was found in each cavity of the thorax. On the left fide the lungs adhered, by a few membranous ftrings, to the pleura, near the middle of the thorax, towards the fpine, but no where elfe. The pleura did not appear to be inflamed in any part. Upon piercing the pericardium, a good quantity, ofreddish coloured serous fluid, dischargeditself. A long polypous concretion was found in the right ventricle, which did not adhere to the fides, but lay entangled among the tendinous fibres of the valvulæ semilunares.

CHAP.

CHAP. IV. Of the Cure.

iv for the more powerful means wh

tendernots feil remain, ger if they flould i adminiftered by an injusticious person ; bu SHALL divide the cure into two parts. Under the former, will be comprehended the more fimple method of treatment, and under the latter the more complex.

be frequently omitted.

The patient, at the beginning, is generally coffive, having had no ftool from the time of delivery. If this be attended with the mildest degree of the difease, a simple emollient opening clyfter, will often procure two or three ftools, and give immediate relief. If the injection produce no evacuation, it is feldom of any fervice. In fome habits of body, where the bowels are delicate, a medicine of this kind will caufe five, or fix motions. The great advantage of the clyfter is, that it generally caufes an immediate difcharge, without lofs of time, which is a matter of fome confequence in this diforder. And if it should not remove the malady, yet it opens the H

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the way for the more powerful means which are to follow. The chief objection to clyfters is, left their introduction fhould hurt the parts fo lately affected by the labour. This may fometimes be the cafe, if a great tendernefs ftill remain, or if they fhould be administered by an injudicious perfon; but, in general, I feldom hear the patient complain of pain from the use of injections. They are undoubtedly, at all times, rather difagreeable, and may, with great propriety, be frequently omitted.

If the patient do not find herfelf greatly relieved by this fimple treatment, or if a clyfter fhould be thought unneceffary, then recourfe muft be immediately had to cathartics. A folution, of the *fal catharticus amarus*, in water; the *oleum ricini*; the *tartarum emeticum*; and the *vinum antimoniale*; are what I have found to anfwer the purpofe beft. The two former, are the mildeft, and muft be repeated till they procure a thorough evacuation, without which they are of no ufe. Of the *oleum ricini*, I generally give one ounce at the firft, and half an ounce every three hours afterwards, till fome

fome effect be produced : but the first quantity generally runs through the bowels pretty quickly, which is the great advantage attending this medicine.

When the tartarum emeticum, or vinum antimoniale, are made use of, they are to be given in fmall dofes, every two or three hours, till they pass through the intestinal canal; otherwife they will answer no other purpose than to amufe the patient, and deceive the prefcriber. For though they might promote fweat, and thereby eafe the patient for the present, yet when the disease is violent, it feldom goes off properly without a plentiful discharge by stool. We are to judge of the evacuation neceffary to be made, by the quality and quantity of the discharge, the abatement of the pain, and the ftrength of the patient. It may not here be amifs to obferve that, previous to any alvine evacuation, it is proper to inquire of the patient, whether the body be eafily foluble or not; that the nature and dofe, of the cathartic medicine, may be more judicioufly adapted to the circumftance of the cafe.

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Soon after ftools have been procured, the patient generally finds an immediate relief from pain, kind fweats come on, gentle flumbers fucceed, and the pulfe becomes more calm, and flow. I commonly prefer giving the *tartarum emeticum*, in a liquid ftate, to the form of a powder; becaufe it is more pleafant to take that way, and the dofe can be more eafily afcertained. The following prefeription may ferve as an example of what I mean :

R Tart. emet. gr. iv. Aq. pur. 3vijfs. Syr. caryoph. ruhr. 3fs. Mi/ce.

Hujus cochleare unum, vel alterum, protinus . assumendum; interpositisque horis duabus tribusve, idem medicamentum est repetendum, donec alvus aptè responderit.

After the inteftinal canal is fufficiently cleared, and the pain abates, a gentle diaphorefis is to be encouraged by fuch medicines as neither bind the body, nor are heating; both which are very pernicious. This intention feems beft anfwered by fmall dofes of *ipecacoanba*, *tartarum emeticum*, or the *vinum*

vinum antimoniale, combined with a gently dofed opiate, and given about once, or twice, in the courfe of the twenty-four hours. In the intermediate fpaces of time, the phyfician may interpofe the faline draughts of RIVERIUS *. Thefe draughts, in order to be of any fervice, fhould be repeated often, and may be given either in the act of effervefcence, or otherwife, as the prefcriber fhall think proper. They may anfwer feveral purpofes; they may operate as antifeptics, and affift in deftroying the putrefcence lodged in the bowels; they may alfo provoke urine,

* The prefcription, of this celebrated author, in his chapter on pestilential fevers, stands thus : " Sal absinthiz ad 3j. in fucci limonum recentis cochleari exhibitum." But here, in all probability, is a typographical error of 3i, for Bi. And what feems to confirm this opinion is, that afterwards the fame kind of remedy is again propofed, for the cure of the very fame complaint (a continual vomiting) and comprehends a more perfect description of the medicine, than the former, as follows: " 21 Salis abfint. Di. fucci limonum recentis cochl. j. mixta fuerunt in ibso cochleari, & exhibita." Centur. I. Obf. xv. And I meet with the like quantity of alkali and acid, as in this laft prefcription, ordered in another place of the works of this author. Centur. 11. Obf. xcix. The proportion, therefore, which I here mean to recommend, is the quantity of one fcruple of the falt, to half an ounce of the juice.

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and help to quench thirft; and they have this further advantage, that they neither bind, nor heat the body. I have frequently ordered the patient to drink a tea-cup full of chamomile-tea every hour, which anfwered, I thought, the above good intentions very well; and, at the fame time, feemed to quiet any fpafmodic conftrictions in the bowels, which the patient might labour under, and affifted to keep up a regular difcharge through the fkin.

If preceding, or during the evacuations above-mentioned, a ficknefs at the flomach, or vomiting fhould attend, the patient muft, firft of all, affift the efforts of nature, by drinking plentifully of chamomile-tea, warm water, or any other diluting liquor, fo as perfectly to cleanfe the flomach. And then the reft of the cure, muft be conducted, in the manner recommended above.

The common drink fhould be of a mild, cooling, and diluting nature. If the fkin bedry and hot, the thirft great, and fever urgent, the liquors may be drunk cold. But if the patient perfpire, then they fhould be taken

taken lukewarm. Pure water with a toaft in it; barley-water, either by itfelf, or with the addition of a little nitre; whey made with rennet or vinegar; milk and water; lemonade; a flight infufion of malt *; mint, or fage-tea; are the proper kinds of drink. I have frequently known the patient earneftly defire a draught of cold fmall-beer, to which I have confented, after qualifying it a little with a toaft; and fhe generally drank it with great pleafure, and feemingly with advantage, finding herfelf much refrefhed by it.

The patient must strictly abstain from all caudle, spices, wine, spirituous waters, heating medicines, and cordials of every kind; whether under the denomination of comforters, strengtheners, revivers, expellers of wind, promoters of the *lochia*, relievers of after-pains, or under any other specious title whatever, which the good women are too apt to bestow upon them, and, thus ignorantly administer to the destruction of the unhappy patient.

A gallon of boiling water, to a quart of ground malt. Reft 64 .

A TREATISE ON THE

Reft of body, and tranquillity of mind, are of the utmost confequence to all those labouring under the puerperal fever; becaufe they are always, at fuch times, very eafily affected. They should be kept as free from noife as poffible, and fhould not be diffurbed by company. Every piece of ill news, or any other thing that might give them the least uneafinefs, or furprife, should be carefully concealed from them, till ftrength of body, and firmnefs of mind be fufficiently reftored. For the fame reafon alfo, too much light is hurtful; the room, therefore, at first should be darkened, and the light be only admitted according as the patient is able to bear it. The fame rules fhould likewife be obferved, after every delivery, whether the perfon labour under a fever or not.

The clothes of puerperal women fhould be frequently changed for clean, dry, warm ones; left by retaining a great quantity of putrefcent fteams, they fhould add fuel to the diforder. Indeed neatnefs, and cleanlinefs fhould, at all times, be particularly attended to, after every childbirth. For this purpofe, a fhort jacket-like fhift, reaching only as low as the navel, as *Baron van* SWIETEN

SWIETEN rightly observes¹, might be fo contrived as to have a detached piece of cloth fastened to it to wrap round the inferior parts, and to be easily taken off, or put on, as occasion requires, without fatiguing the patient. In changing the linen, great care should be taken that the access of cold air, under the bed-clothes, be prevented.

All kinds of bandage, upon the trunk of the body, muft likewife, in this malady, be carefully avoided; left by their preffure upon the tender *abdomen*, and inflamed *vifcera*, they fhould help to increafe the diforder. And it fhould be always remembered, that a compreffion of the *abdomen*, after any childbirth, is very prejudicial; for reafons which will appear more fully hereafter, when we come to treat of the caufes of this difeafe.

Let me add, to thefe directions, that all infants, after delivery, when cleaned and placed in bed, fhould always be put to the breaft, as foon as ever they begin to cry, or fhow

* Comment. in Boerh. Aphor. Tom. iv. pag. 616.

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any figns of uneafinefs, though it fhould happen only a few hours after they are born. This practice is very beneficial, both to the mother and the child. It opens the lactiferous ducts, caufes an eafy and gradual flow of milk, and often prevents pain and forenefs of the breafts, which frequently arife from an accumulation, and obftruction of the lacteal fluid. And, to a new-born infant, the mother's milk is both food, and phyfic.

Great regard must also be paid to the state of the air in which the fick perfon breathes. The room fhould be large, and kept very cool. Fresh air, in warm, or even temperate weather, should be let into it, by an opening at the windows, or door, every day. The chief caution neceffary, with respect to this last direction, is to prevent a thorough current, or the air blowing directly upon the place where the patient lies. The covering, upon the bed, fhould be no thicker than what the patient has been used to, when in health. The bed-curtains should be kept pretty open, to give the fick woman an opportunity of breathing a pure atmosphere. I do not object to having a fire, provided-

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vided it be not fo large as to over-heat the apartment. A fmall fire is of fervice; it acts as a ventilator, by carrying off the impure air along with the fmoke, and caufing a quick fucceffion of fresh air into the room. Some regard, in relation to thefe general rules, must always be paid to custom. A perfon, for inftance, who has always been used to lie very warm, is not to be fo much exposed as one who has been accuftomed to lie more cool: yet fuch an one is not to be kept hotter, after delivery, than ufual. The author does not mean to recommend, but to avoid extremes; and to be always guided, according to the different circumfrances of the cafe.

The cuftom of confining lying-in women, in an over-heated air, and to a warm regimen, is frequently attended with the moft fatal confequence. It renders the whole nervous fyftem extremely irritable, creates thirft, caufes frightful apprehenfions, tremors, palpitations of the heart, lofs of fleep, uneafy dreams, febrile heats, premature and hurtful fweats, pains of the head, miliary eruptions on the fkin, and fevers of the moft dangerous kind. Yet how often do we find this 12

bowels, and

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baneful method put in practice ! How careful are the good women to ftop up every crevice, and keep out every breath of air! How anxious in heaping clothes upon the bed, fo that the poor patient can hardly breathe under them ! How cautious left the curtains of the window, or bed, should be withdrawn ! How obfervant in keeping up great fires in the room ! And, that the internal flate of the patient may correspond with the external, they take care to give her very liberally of warm caudle, with plenty of fpices, and all the good cordial drinks they can think of, and thefe to be fwallowed as hot as the mouth, and ftomach, can well bear them! If this be not the readieft way to caufe inflammations in the bowels, and other viscera, and fevers of the worst tendency, in a perfon whofe blood is already over-heated by a fwift circulation, during the repeated pangs, and throes of labour, I know not which is. But most certainly this is not the way to check the rapid motion of the blood; to cool the inflamed body; to quench thirst; to cure an aching head; and to call forth foft flumbers, and a gentle breathing through the fkin. Reafon, experit how often do we find this ence,

ence, the infpection of the bodies of those who have died after puerperal difeases, all plead ftrongly against it.

Miliary fevers, and others of the like kind, are reckoned very common to lying-in women. Yet I am perfuaded, from manifold experience, that these fevers are more the offspring of a heated room, and warm regimen, as obferved before', than of any thing peculiar to the flate of childbed-women. I have attended more than fourteen hundred women, after their deliveries, in THE CITY OF LONDON LYING-IN HOSPITAL; yet I do not remember, ever meeting with an inftance of the miliary fever, in that, houfe. This I attribute partly, to the cool regimen that is ftrictly enjoined to be obferved there; but above all, to the admiffion of cool air, which is ordered to be let into the wards, every day, at an opening in the windows. And probably it is for the fame reafon alfo, that I have never obferved, in that excellent ASYLUM for pregnancy, any petechiæ, vibices, exanthemata, vesiculæ, puncticula, or any other febrile eruptions, joined with the

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fever of which we are now treating. But to return to the cure.

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After the diforder is abated, or even after it feems to be gone off, a particular attention must continue to be paid to the state of the bowels. These must be kept gently open, for fome time, till the patient be quite out of danger. And if there should be a relapfe, the treatment must be the fame as above deferibed, only adapting it to the ftrength of the patient, and the particular circumftances that may happen to occur. But the more effectually to prevent a return, and to reftore the weakened bowels to their due tone, finall quantities of chamomile-tea, or a flight infusion of juniper-berries, may be drunk, three or four times a day, either by themfelves, or with a few drops of the chixir vitrioli acidum. After this, a cooling opening diet, with fresh air, bark of Peru, and gentle exercife, will confirm the cure.

It may probably feem wonderful that fo fimple a treatment, as hath been prefcribed, fhould be powerful enough to remove fo terrible a diforder. And I must needs own it

it hath often been a matter of agreeable furprife to obferve how readily the difeafe, though very violent, would yield to this fimple method of cure. Let us from hence, therefore, draw this conclusion, That it is not the multiplicity of medicine, but the knowledge of the caufe, that must remove a difeafe. Herein lies, the great mark of diffinction, betwixt the physician. and the empiric.

The reader may observe, that, in the cure of this malady, no regard hath been paid to the obstruction of the locbia, nor any particular remedies propofed for its removal. All fuch notice hath been purposely omitted. The author confiders the obstruction of the lechia, as only the effect, not the caufe of the difeafe. Take away the caufe, and the effect will ceafe. Or, in other words, cure the difeafe, and the flow of the lochia will return of courfe. I the rather infift upon this, that not even the leaft pretext may be found, in this diforder, for exhibiting emmenagogues, and uterine medicines, as they are commonly termed, fuch as the pulvis e myrrha compositus, volatile falts,

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falts, diffilled oils, fpirituous waters, and the like¹; which are not only ineffectual, but noxious. The beft emmenagogue, in a fuppreffion of the *lochia*, is a cooling regimen, and a judicious regulation of the alvine difcharge.

§ 2.

WE will now proceed to the treatment, of the difeafe, in its more irregular, and complicated state. It hath already been remarked, that a diarrhoea will fometimes commence at the very beginning². When this is the cafe, it is by no means to be checked; but we are to affift the beneficent operations of nature, by ordering the patient to drink plentifully of mild, aperient liquors. Barley-water with nitre, lemonade, whey made with rennet or vinegar, thin watergruel, weak chicken-broth, a flight infufion of malt, or a drink composed of a quart of barley-water with the addition of two ounces of the juice of Seville oranges impregnated with one drachm of falt of tartar, ac-

¹ Vid. Inftitut. Boerh. §. 1226, pag. 516. ² Page 9.

cording

cording to the different circumftances of the cafe, are proper on this occafion. They answer three good purposes; they help to dilute, correct, and expel the acrimony lodged in the primæ viæ, which nature is endeavouring to throw off. If a vomiting, or nausea, should accompany the loofeness, chamomile-tea should be given immediately, and drunk in fuch quantities as to caufe a plentiful evacuation upwards. And in cafe thefe methods fhould prove infufficient, to affift nature in making a thorough difcharge of the offending matter, recourfe must be had to the more powerful means prefcribed in the former part of this chapter 1. The neceffity of this must be judged of, by the nature and quantity of the difcharge, and the relief the patient receiveth from thence.

If the pain of the hypogaftric region fhould be accompanied with violent flitches in the fides, or over the pit of the ftomach, and a pulfe that refifts the finger pretty ftrongly, then bleeding would be highly neceffary. The first quantity should rarely

> * Page 58, 59. K

exceed

exceed eight ounces, and, in about fix, or eight hours afterwards, if the pulfe still preferve its ftrength, and the pain continue, the arm fhould be tied up again, and a fecond quantity drawn from the fame orifice. If that vein refuse to bleed, then a fresh opening may be made in fome other part. We must be guided, in our fecond bleeding, by the appearance of the blood drawn, and the particular circumftances of the patient, confidered both feparately, and collectively. When the pulfe, and ftrength of the patient, are in fuch a ftate as not to bear much lofs of blood, and yet indicate fome evacuation that way, cupping on the fhoulders may fupply the place of venæfection with great advantage. In this cafe, we should attend to the rule laid down by ARETÆUS of Cappadocia, and have the cupping-glaffes much larger than what are commonly made use of : " efto autem magna (cucurbita) omni ex parte lata, dolentem locum ambire valens "."

But it should be always remembered that bleeding, in the puerperal fever (I speak

* De Morb. Acut. curat. Lib. 1. cap. x. pag. 92. with

with fubmiffion) is only to be confidered as a fecondary relief, though the first in point of time, and that the greatest strefs is always to be laid upon evacuations by ftool. In the quantity of bleedings,' therefore, allowance fhould always be made for these evacuations, which must, at all events, take place. This is a very nice point to determine, and must entirely reft upon the fagacity, and judgment of the physician. An error, on either fide, may be hurtful; for if bleeding be neglected, when neceffary, it may increase the great tendency which we find to inflammation, not only in the omentum, but in the lungs, and other viscera; and if too much blood be taken away, it may weaken the patient fo much, as to prevent her fupporting the other evacuations. And from hence, I imagine, we may account for that contrariety of opinion, which we meet with, among authors, with refpect to bleeding in general, in the puerperal fever. Some laying it down as abfolutely neceffary, and others as ftrongly oppofing it.

Were I to interpose my opinion in this matter, I would follow the advice of the intelligent

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telligent CELSUS, and not flavifhly adhere to either of these tenets; but be, as it were, of a middle opinion, betwixt the oppofite extremes¹. I would fay that there are fome cafes where bleeding is very neceffary, and others where it is highly improper; and that thefe will depend upon many contingent circumftances which can only be rightly underftood by the skill, and attention of the phyfician. The beft criterion to judge by, is the pulfe, and period of the difeafe. If the pulfe be full, and vibrate ftrongly against the finger, bleeding is proper at any period, and under any circumftance; but more particularly fo in the beginning. But if the patient hath neglected to call in advice in due time, by mistaking the difease for after-pains, or any other malady, then let the phyfician deliberate, and proceed with caution. For though there may be a flattering ftrength in the pulfe, yet a tendency to a gangrene, in the omentum, and other viscera, will often follow foon after, and nature will be hurrying on towards a diarrhoea, which feems to be the only way fhe takes, in order to relieve herfelf from fuch a terrible difaster. If I must err, therefore, in this

* In præfat. pag. 12.

cafe,

cafe, and who amongst us is free from error? "Est enim bæc ars conjecturalis, neque respondet ei plerumque non solum conjectura, sed etiam experientia !" I let it be rather, I fay, in point of bleeding too little, than of bleeding too much, and in making up the deficiency by evacuations by stool.

To return to the pains in the fide: I have rarely obferved any figns of expectoration in this cafe; for though there is generally more or lefs of a cough, yet there is feldom any wheezing, rattling in the throat, or fpitting, unlefs where the patient has laboured under a *phthifis pulmonalis*, or fome other complaint in the breaft, before the difeafe came on. The way by which nature feems to endeavour to relieve herfelf, is a *diarrhoea*, and fweat. She generally excites both thefe evacuations, from the firft; and the ftools are commonly very fetid.

Guided by her operations, these have been the two outlets I have always had in view; carefully endeavouring to proportion them to the ftrength of the patient, and the nature.

[·] Cell. in præfat. pag. 13.

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of the alvine difcharge. If the ftools continued fetid, I purfued that evacuation; if they became watery, or better conditioned, I refrained. The diaphorefis was promoted, by the general methods above defcribed. Where the pulfe fhowed any degree of ftrength I always began the cure with bleeding, and repeated the operation according to the circumftances of the cafe. At other times, the pulfe hath been fo very quick and weak, that I durft not venture to order blood to be drawn.

Bliftering, under these peripneumonic circumstances, is always proper, and can hardly be difpenfed with. A veficatory, as large as the hand, fhould be applied the very first hour, if possible, to that fide where the pain is most violent. In the space of eight or ten hours, if the pains be not alleviated, another blifter of the fame magnitude, fhould be put upon the contrary fide. And if there be no particular flitch, but only a general opprefiion in breathing, then the plafter may be laid between the shoulders; and afterwards, if occasion require, first to one fide and then to the other. Oily, or fperma ceti, emultions, are very proper helps to quiet any

any cough that may attend; but no other ftrefs is to be laid upon them. Thefe may be affifted, by making the patient breathe over the fteam of hot water, to which a few grains of camphire, diffolved in a fmall portion of vinegar, have been added.

In this puerperal peripneumony, when the pulfe begins to flag, and the difeafe puts on a putrefcent flate, the patient muft be fupported by cordials. For this purpofe, the *fal cornu cervi* may be given, joined with the bark, and foftened with a folution of *fperma ceti*, to make them go down fmoothly, and not irritate the *fauces*, or ftomach. As a drink, I have frequently ordered CLUTTON's febrifuge fpirit, when properly diluted, which he directs to be prepared in the following manner:

" B. Ol. fulphur. per camp. legitime præparat. Vitrioli rect.

Salis an. p. æ. Spir. Vini rectificatiss. triplum horum omnium, digere per mensem; & ad succis tatem distilla ¹."

• Vid. A fhort and certain Method of curing continued Fevers, By Jos. CLUTTON. Edit. 3d. pag. 9.

He

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He advifes fo much of this fpirit to be put to fuch a quantity of clear fpring water, as will make it gratefully acid, and then to be fweetened with fine fugar, according to the patient's palate; and thus you will have, he fays, as agreeable a liquor, or julep, as can be defired by a thirfty perfon. I commonly give it, in the proportion of one ounce, to a quart of water. It generally promotes fweat, but fometimes it will rather difagree with the stomach. This febrifuge liquor of CLUTTON is fuppofed to be the famous Punch which is kept as a fecret, by fome inoculators, and given to lower the fever when too violent, and prevent too great an eruption of the fmall-pox.

From the recommendation of the radix fenekæ, or polygala Virginiana, in pleuritic difeafes, I have been induced to try the efficacy of that root in the cafe now under confideration; but have not yet had fufficient experience of it, to determine any thing with certainty. But if what hath been reported of it holds good, it feems to poffefs qualities that may be ferviceable in this complaint. For it is faid to fuperfede, in a great

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a great meafure, the neceffity of bleeding; to operate chiefly by ftool, urine, and perfpiration, without inflaming the body; all which are the great intentions, according to my idea, that are principally to be followed in the cure of the puerperal peripneumony.

When the puerperal fever is thus combined with a peripneumony, the difeafe becomes at once very defperate, and requires the utmost skill, and attention to fave the patient. It feems to be no lefs than a general inflammation of the omentum, inteffines, and lungs, and fometimes alfo of the ftomach, commencing nearly at the fame time, and difposed to run quickly into a state of gangrene. Not a moment's time is now to be loft, but the cure should commence, with all the power of art, within a few hours of the attack, if poffible; otherwife, the diforder makes fuch rapid progrefs, that the cafe in a fhort time becomes, in a manner, irretrievable. This obliges me to repeat, to the attendants of all lying-in women, what I have mentioned again and again; namely, that violent pains about the abdomen, coming on foon L after

after delivery, if neglected or trifled with, will frequently prove mortal !

Sometimes flitches, and difficulty in breathing, which arife only from flatulencies in the flomach, or *colon*, will floot about the flort ribs and prove troublefome. They are eafily diffinguifhed from those of which we have just now been speaking, by their flifting from one place to another, and the finall degree of fever that accompanies them. They are generally attended with a costive body, and go off, after procuring a flool, by clyster or otherwise. If the belly be open at the fame time, they are eafily dispersed by a draught prepared with *afa fætida*, and a few drops of the Thebaic tincture.

If a cough fhould be troublefome, I mean fingly confidered, or if there fhould be a violent pain in the head, then a blifter betwixt the fhoulders generally gives the moft relief. In the former cafe, *fperma ceti* draughts with nitre often affift the blifter, but are generally too ineffectual of themfelves. A few

few drops of the *tinEtura Thebaica* may fometimes be added with great propriety. And now and then I have found, after the fever has gone off and a cough remained with difficulty in breathing, a fmall quantity of the *tinEtura fatida* given with a folution of *fperma ceti*, or *gummi Ammoniacum*, of great fervice : and more efpecially, if there were any flatulent complaints in the ftomach, or bowels.

When the pains of the *abdomen*, in fpight of the general treatment defcribed in the firft part of this chapter, continue very fevere, we muft call in to our affiftance external applications. Fomentations, emollient cataplasms applied over the whole *abdomen*, bladders of hot water, fostening oils either pure or medicated, steams of hot water conveyed to the part, blistering of the *abdomen*, may all be tried in fucceffion.

When the puerperal fever proves very violent, whether the difeafe be fingle or combined, it generally terminates in a *diarrhoea*. This, however, is to be confidered in no other L 2 light,

light, than the kind efforts of nature to relieve herfelf from the diforder within the abdomen, and to carry it out of the body, by means of the nearest emunctory; that is, the inteftinal canal. This fhe boldly attempts, by a profuse discharge. It is the last struggle, which nature makes with the difeafe; and if her ftrength be fufficient to fupport her efforts, fhe may come off victorious. And this brings us to the conclusion, of the curative part of our discourse, after first confidering how far art may affift nature, in carrying on this great defign. The chief intentions of cure, in this critical state of the difeafe, are, to moderate the efforts of nature, with respect to the profuse diarrhoea; to endeavour to keep up the vis vita, or ftrength of the patient; and to correct the putrefcent state of the folids and fluids. For this purpose an aftringent antifeptic clyfter fhould now and then be injected. Emollient, diluting, or nourishing clyfters are, at the fame time, to be interposed, as different circumstances shall require, but fo as not to over-fatigue the patient. They may be composed of chamomile-tea, fat broth, pure oil, beef-tea, or the like. Thirty grains

grains of the philonium Londinense, with one grain of the root of ipecacoanha, may be given, about once in twenty-four hours, in the form of a bolus, or in a little fimple cinnamon water. And an aftringent cordial mixture, may be in readiness, to take after every stool. In case of faintnefs, or great finking, red wine and water, with a few drops of the Spiritus volatilis aromaticus, may be given by way of cordial. The patient must be fupported by nourishment, which should be given in small quantities and often, as well as by medicine. Chicken-water, or mutton-broth made weak and cleared of all its fat, beef-tea, rice-milk, a little chocolate and milk, or the gelly of hartshorn, are very proper. For drink fhe may take, very frequently, a tea-cup full of milk and water, or three parts milk and one of lime-water, or a flight decoction of logwood, or mint-tea, rice-gruel, red wine and water, or chamomile-tea; and add to thefe, at any time, a few drops of fpirit of hartfhorn.

These are the proper helps to moderate the colliquative discharge, and to keep up the strength of the patient. But the most capital

tal point of all yet remains : I mean, to cut off the purulent fomes, the chief caufe of the difeafe (as the diffections feem to indicate) and reftore the tainted omentum and inteftines to fomewhat of their perfect state. With this view, after checking the loofenefs by the above methods, I have thrown in, between whiles, as much Peruvian bark as I durft venture on, guarded by aromatics and opium. When the diarrhoea returned, then the bark was omitted, till that complaint was mitigated; and fo alternately. In fuch a dilemma what can the power of art do more than give nature an opportunity to throw off, at intervals, the morbid furcharge, and, in the intermediate fpace of time, to endeavour to keep up the vis vita, and correct the remaining putrefcence of the folids and fluids? By these means life may generally be prolonged, and as there must be different degrees of the diforder, from the flighteft to the most inveterate kind, it may fometimes be preferved.

But when the difeafe has arifen to fuch a pitch, as to render the *omentum* gangrenous, to induce a putrefcent flate upon the inteftinal

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nal canal, and to caufe a large quantity of purulent, and other morbid liquors, to float among the viscera; is it at all wonderful, that the patient should at last frequently fink under this colliquative difcharge? In fuch a desperate cafe, must it not require more than the united force of the whole materia medica, to withftand its power? What medicine hath fufficient virtue to penetrate into the inmost recess of the body, and recover the putrid omentum? What plant is efficacious enough, to heal the morbid inteffines, to revive the finking ftate of the patient, and draw off the purulent difcharge from the cavity of the abdomen? Where is fuch a remedy to be found ?

Dic, quibus in terris, et eris mibi magnus Apalla ??

1 Virgil, Ecl. iii. ver. 104.

C. H A P.

CHAP. V.

The sentiments, of Writers in general, relating to the Cause of the Puerperal Fever.

TO render this chapter more useful, I shall frequently depart a little from my main subject, in order to give the opinion, of different authors, with respect to bleeding in this diforder; which, as observed before, is a point of no small controvers.

HIPPOCRATES.

HIPPOCRATES is the moft ancient phyfician, whofe works have come down to us; and is therefore furnamed *the father of medicine*. He was born in Cos, an ifland in the Archipelago, and practifed phyfic principally in Theffaly and Thrace. He flourished in the time of the Peloponnesian war, that is, about four hundred and thirty years before the Christian æra, It is supposed to have been five hundred years

years, after his death, before his works were collected together, to form them into a body. This was done, in the reign of the emperor ADRIAN, by two phyficians of Alexandria, ARTEMIDORUS CAPITO, and DIOSCORIDES. TheGreek language had fuffered fuch a change, during that time, that though they were native Greeks, yet they met with a variety of words which they did not understand; and GALEN charges them with taking too much liberty in changing feveral words of the text '. Befides this, it is no difficult matter to imagine that the first compilers of the works of HIPPOCRATES, at fogreat a diftance of time as five hundred years, might meet with a variety of pieces which did not properly belong to him, but, being found in the fame collection, might be mistaken for his, or at least be thought worthy of being bound up along with them. The original manufcripts alfo, after the compilation was made, by paffing through a variety of hands, and mouldering in libraries for centuries together, must probably have undergone very great changes.

¹ Comment. 1. in Lib. HIPPOCR. de Natur. Hom. Charter. Tom. iii. pag. 97.

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From these, and a variety of other circumstances, the writings of HIPPOCRATES may not improperly be compared to an ancient Grecian building of admirable workmanship, but much defaced by length of time. Such as have been defirous of preferving, or repairing, this beautiful Ionic structure, may be confidered as having gathered together the fcattered ruins, and fluck them into different parts of the building where they imagined they beft corresponded. Others, not finding materials fufficient to fupply all the defects, may be fuppofed to have added fome of their own carving, or to have fetched them from the ruins of other antique buildings, of fimilar structure. Hence the whole becomes ftrangely chequered, and patched. Hence the division of the works of HIPPOCRATES into true, and spurious; hence also the difference of ftyle, the various readings, the frequent repetitions, and feeming inconfiftencies which are to be found in various parts of his works.

I have frequently thought, if these Grecian remains of antiquity were ranged into a proper systematical order, with all the various readings

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readings annexed, and the whole enlivened by a fpirited tranflation, that it would render them much more ufeful, and caufe them to be more generally read. In the arrangement, those parts which, by the experience of many ages, are found to be true, and to correfpond with each other, might, with propriety, be linked together, though in the original they be found feparate; and those which are not warranted by nature, and repeated obfervation, might be looked upon as fo much extraneous matter, which did not properly belong to the building, but was merely adventitious, and therefore to be placed by itfelf. This would be reducing the whole works of HIPPOCRATES to order and truth, grounded upon long practice, which is the great point required. For it matters not whether fuch a book, or fuch a part of a book, was written by HIPPOCRATES himfelf, or his difciples; by his father, or grandfather'; fo long as we can come at a complete fystem of ancient medical science, established upon the experience of many ages, and many nations! In collecting the account of the difeafe, which is the fubject of our prefent inquiry,

Vid. Le Clerc. Hiftoir. de la Medec. Part 1. chap. xxx. pag. 239.

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out of the writings of HIPPOCRATES, I will endeavour to follow the plan here pointed out, that the reader may judge how far it may anfwer, and more perfectly comprehend my meaning. I have also marked, for the fake of the curious, those parts in the Hippocratic description which more particularly correspond with the passages in the body of this treatife, and referred the one to the other by marginal notes.

ΗΙΡΡΟCRATES hath plainly defcribed the puerperal fever, though he hath given no particular name to it, and fuppofes it to be caufed by an obstruction of the lochia, as we may learn from the following words: Hv Sè μή χωgén oi ή κάβαgσις (λοχείη), ξυμβήσεται ώστε μιν πυρεταίνειν και φgίκην έχειν, και την γας έga μεγάλην είναι. Ην δε ψαύση αυτής, αλγέειν παν τό σώμα, μάλις α δε ήν τis της γαστgos ψαύση και καgδιώσσει άλλοτε και νυγμός. Επειτα ' ήμερη πέμπηη ή έβδόμη, ές ιν ότε ή κοιλίη ταgάσσεται*, και ύποχωgéει μέλανα, και κάκοδμα

* Kai voyuos ënerai, &c. CORDEUS sic ad pracedentia retulit et legit. Charter. Tom. vii. pag. 900,

* When the difeafe hath been left to nature, I have more than once known a *diarrhoea* fupervene about the time here mentioned.

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μάρτα άλλοτε και άλλοτε, και ώς όνειον ούρον. Καί ήν υπέλθοι, δοκέει οι ρηίτερον είναι καί μελεδαινομένη, έν τάχει ύχινς γίνεται. Ην δέ µה, תועלטעבטסבו לומסףסוֹה מעדה וקעוצה בהותבסטסה י, καί τα λοχεία οι κρύτεται 2*. Σφυγμοί βληχεοί, ές ι δ' ότε και όξεες άλλοτ αειρομενοι, άλλοτε ελλείποντες. Ταυτα παχεί αρχομένης της νουσε, καί ώδε έχει ήν δε προίη το χρόνο, τα κοίλα το προσωπε ερυθρα γίνεται. Οταν ώδε έχη, διδόναι אסטקע סודוע א אי טפיעה, קעפאעאטי דוסעו אעדשי ny pièr xoradne no, o, TI xorne radaiger ny de φλεγματώδης, ό, τι φλέγμα. Μεία δέ τέτο, πυριήσθαι 3 τας ύς έρας ευωδεσι και προσθείναι parsantigiov & The nuegov t. Ei d' sepundein γυναικί λοχείη καθαρσις ώς ές κεφαλήν, θώρηκα τε, nai Treunova (givelas gag TETO) nai Svnonsos דסאאמצוג מטוואם, אי וקוזדמו .

The text, I apprehend, will bear the following translation: Si verò ei purgatio (puer-

- * Eneioneosons. S. Charter. Tom. vii. pag. 900.
- ² Kengústera. M. S. R. Ibidem.
- 3. Пиріñoai. S. Ibidem.

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- * Margaurneia. S. & F. Ibidem.
- * Περί Γυναικ. πρωτ. Charter. Tom. vii. cap. xxxvii. pag. 7 51.

† Περί Γυναικ. πρωτ. Charter. Tom. vii. cap. xl. pag. 752.

Inegi Γυναια. πgῶr. Charter. Tom. vii. cap. xlv. pag. 755. perii)

perii) non provenit, proximum est ut febris cum borrore 1 oriatur; & ut venter tumidus 2 fiat. Sin autem eam attigeris, totum corpus dolorem sentit, et præcipue si quis ventrem attigerit 3; interdum etiam ardor ventriculi 4, dolorque lumborum 5 urget. Et cibi fastidium 6, & vigilia 7, & corporis compunctio adest. Post bæc, vel quinto vel Septimo die, alvus turbatur, & quæ excernuntur nigra sunt 8, & interdum perquam mali odoris 9; & urina eam afini repræsentat. Quæsi incidunt, melius illi esse videtur 10; curâque habitâ mature ad sanitatem pervenit 11. Sin minus autem, periculum erit, ne ei profluvium alvi vehemens superveniret 12, & purgamenta puerperii supprimerentur 13. Pulsus arteriarum imbecilli sunt, interdum verò etiam celeres; modò valentes, modò exigui 14. Hæc in principiis morbi patitur, & fic se babet; interposito autem temporis spatio, cavæ partes faciei rubescunt 15. Ubi ea fieri

* Pag. 3. lin. 7. of this treat. ? Pag. 9. lin. 3.

- * Pag. 2. lin. 1. 10 Pag. 12. lin. 15. ³ Pag. 1. lin. 7.
 - ¹¹ Pag. 16. lin. 10. and 32, 16.
- + Pag. 2. lin. 14, and 8, 10. 12 Pag. 9. lin. 8. and 83, 23.
- ⁵ Pag. 2. lin. 18, ¹³ Pag. 10. lin. 23.
 - 14 Pag. 5. lin. 17.
- 6 Pag. 8. lin. 10.
- 7 Pag. 4. lin. 16. 39 Pag. 5. lin. 7.
 - * Pag. 9. lin. 3.

apparent,

apparent, leves cibi dandi funt 16; &, fi aliquid fuperat, medicamentum catharticum forbendum eft 17; fi quidem biliofa (ægra) fuerit, quod bilem purget; fin autem pituitofa, quod pituitam. Deinde locis muliebribus fomenta 18, quæ ex odoribus fiunt, admovenda funt; & quæ emolliunt (µaltanthona) quotidie fuperimponenda 19. Si verd purgatio puerperii mulieris quafi ad caput, thoracemque, & pulmones 20, cum impetu fertur (id enim evenit) fæpe ftatim moriuntur 21, fi illic detineatur.

We have here a pretty accurate and plain defcription of the puerperal fever, as obferved by HIPPOCRATES, which, in most parts, exactly corresponds with what has been faid of it in the first part of this treatife: infomuch that had both defcriptions been written about the fame time, it might have been disputed which author had borrowed from the other. But the truth is, neither of them, in the least tittle, copied from the other; but from nature alone. Hence it is the fimilarity arises: from which also

 16 Pag. 62. lin. 21. and 63, 13.
 19 Pag. 83. lin. 15.

 17 Pag. 58. lin. 17.
 20 Pag. 2. lin. 16.

 18 Pag. 83. lin. 15.
 20 Pag. 33. lin. 16.

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we may learn, that the operations of nature upon the human frame, in this difeafe, are the fame in Britain, as in Greece; and continue the fame at this day, as they were above two thousand years ago! This is likewife a clear proof of the immutability of the puerperal fever, that it is an original difeafe, and hath been prevalent at all times, and in all climates, and yielded to the fame method of cure as hath been prefcribed above.

In collecting the description of this difease, out of the writings of HIPPOCRATES, it may be remarked, by confulting the original, that I have dropped part of the fentence which precedes the words oquy noi Bangeoi, as being nearly a mere repetition of what. had been faid before on this fubject, and interrupting the regular flow of the description. It may be faid, indeed, that this method of felecting the hiftory of a diforder, out of the works of HIPPOCRATES, is paying too great a deference to antiquity; and that, by picking out a fentence here and there, an accurate and complete defcription of almost any difease, might be drawn up and prefented to the reader. To this I anfwer,

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fwer, that it is not fo, in the prefent cafe; for Ihave inferted nothing, in the defcription, but what is regularly claffed under the head of obftructed *lochia*, the true caufe, in the opinion of HIPPOCRATES, of the malady under confideration. In a word, I have done nothing more than brought together, the different parts of the defcription, into one point of view, which in the original are feparate and diffufed, in order to place them in a ftronger light; a piece of juffice, in my opinion, due to *the divine old man*, whofe concife manner of writing does not favour tautology, how much foever it may have crept into fome parts of his works.

Anno Dom: 1000. AVICENNÆ, canon medicinæ. Per Fabium Paulinum Utinensem: Venetiis, 1608. tom. i. lib. 3. fen. 21. tract. 2. cap. 33.

The true name of this author is Abou Ali Al Houffain, Ben Abdallah, Ben Sina, that is, father of Ali Al Houffain, fon of Abdallah, fon of Sina; commonly called N by

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by the Mufulmen Eb'n Sina, and by the Europeans AVICENNA, the name by which this Arabian phyfician is generally known. He does not enter into a particular defcription of the puerperal fever, but speaks of it in general terms, together with the obstruction of the menfes; though the title of his chapter is, " De dispositionibus enixarum." He feems to attribute it to a retention of the lochia, and to afcribe the fame effects to this, as to an obstruction of the menses. " Perducit retentio menstruorum, inquit, ad febres pravas, et ad apostemata prava, et multoties accidit ex itura ex partu difficili. Et quandoque accidit eis (enixis) inflatio ventris, et fortasse moriuntur." For the cure, he advifes fumigations; and, if those do not anfwer, then bleeding in the faphæna, and adds, "et phlebotomia, venæ curvaturæ poplitis, est fortior."

1560. The byrth of mankynde, otherwyse named the womans booke. By THOMAS RAY-NALDE, Physitian. 1560. booke ii. cap. vi.

This book is a tranflation from the Latin. The original is faid to have been written in High

High Dutch by EUCHARIUS RHODION, whofe work was in great efteem all over Germany; and, about the year 1535, was translated into Latin, and other languages, and became univerfally the woman's book over all Europe.

The author of this performance fuppofes that fevers after delivery, may be owing either to an obstruction, a too great flow of the lochia, or a laborious birth. " It is alfo to bee understanded, fays he, that many times, after the deliveraunce, happeneth to women other the fever, or ague, or fwelling, or inflation of the bodye, other tumblynge in the belly, or elles commotion or fettelinge out of order of the mother or matrix. Caufe of the which thinges, is fometimes lacke of due and fufficient purgation and clenfynge of the (lochia) after the byrth, or els contrarywyfe, over muche flowinge of the fame, whiche fore doth weaken the woman. Alfo the great laboure, and ftyrrynge of the matrix in the byrth . Nowe feinge then that it enfueth by fo manyfolde occasions and causes, it shall be mete that women in this cafe be nothing

> [•] Fol. 73. N 2

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afhamed ne abafhed to difclofe their minde unto expert phyfitians, fhewing them every thynge in it, as they knowe whereupon it fhoulde come, fo that the phifition underftandinge the womans mynde, maye the foner by hys learnynge and experience confyder the true caufe of it, and the verye remedye to amende it'."

1602. FELICIS PLATERI, praxis medica. Bafileæ, 1656. tom. ii. cap. xiii. De ventris dolore.

This ingenious writer is of opinion that pains after childbirth are frequently occafioned by the cold air rufhing into the cavity of the uterus, immediately after delivery, and diftendingit. Butthe grand caufe, of the fymptoms accompanying the puerperal fever, he attributes to an inflammation of the uterus. " Imprimis verò ex partûs difficultate, ob fummum dolorem & conatum, uterus frequenter inflammatur; tuncque vel foetu aut fecundina remanente, aut bifce exclusis, ob fubortam inflammationem, dolor & febris urgent: caufaque bæc non minima est, quòd puerperæ vel

* Fol. 77.

in partu, vel post eum, adeo dolent, & periclitantur, cum secundinæ solius retentio, hoc tam subito minime faceret sic uti bæc, quæ sequitur, instammatio illas afficit, & præcipua mortis causa existit; nist hoc ob largam sanguinis profusionem, in partu extra uterum, vel in illum factam accidat; adeo ut dolor qui post partum mulieribus evenit, non tantúm, ob aërem illapsum, uti dictum, sed & hanc instammationem, frequenter stat: quorum ille tamen solo dolore, bic vero gravioribus accidentibus, majorique periculo affligit '."

1634. DANIELIS SENNERTI, opera. Lugduni, 1656. tom. iii. lib. iv. part.ii. sect. vii. cap. xi. De febribus & morbis acutis puerperarum.

He fays that puerperal fevers arife, either from a fuppreffion of the lochial difcharge, or an accumulation of noxious humours, during the time of geftation, which are put in motion by the fucceeding labour. "Febres autem illæ omnes, inquit, è duabus caufis proveniunt, vel à lochiorum fuppressione, aut imminuta purgatione, vel ab humorum vitioso ap-

* Pag. 533.

paratu,

paratu, tempore gestationis cumulato, & in partu agitato. Nonnulli quidem etiam nimiam lochiorum purgationem addunt. Sed ea causa vix sola febrim excitat, sed latentem cachochymiam arguit "."

He observes that bleeding, in these fevers, may be performed with great propriety, if it be indicated, and the ftrength will permit of it; and that if there be, at the fame time, a fuppreffion of the lochia, it must by no means be omitted. But if, on the contrary, there be a fufficient discharge from the uterus, he then thinks it is beft to leave the whole work to nature. He gives the following directions, as to the veins most proper to be opened upon this occasion, and puts them under the head of a query: " Quæ venæ in puerperis pleuritide laborantibus aperiendæ sunt ? Dissentiunt de boc valde medici. Ex bac difficili controversia ut nos expediamus, primò, quod sæpe dietum, boc tenendum, febrem banc non esse symptomaticam proprie dictam, qualis ex bubonibus & similibus inflammationibus interdum excitari solet, sed comitatam, quæ nimirum primaria est, comitem tamen & sociam babet inflammationem, dum natura partem materiæ, quæ febrem excitat, ad pleuram,

* Pag. 749:

vel

vel etiam ad aliam partem detrudit. Se-, cundo naturam bic errare, & vitiosam evacuationem instituere, dum bumorem vitiosum, quem per uterum expellere debebat, ad pleuram vel aliam partem superiorem deponit. Tertio, ea de causa nullo modo naturæ bunc motum vitiosum adjuvandum esse; id quod fieret, si vena statim in brachio ejusdem lateris aperiretur: sed potius sanguinis ad uterum, per quem in puerperis natura recte agens eum evacuat, motum adjuvandum vel concitandum, venà in talo vel poplite apertà. Neque, quem casum ponit Varandæus, facile fieri potest, ut. fluxus lochiorum nimius cum pleuritide conjungatur; cum si sufficiente quantitate fieret bæc evacuatio, ad pleuram Sanguis non rueret. Sit tamen, ut hoc accidat : tamen impetus fanguinis, et humorum proculdubio tum copiosorum, non ad superiora convertendus. Multo minus, si, cum lochia naturaliter fluere videntur, pleuritis excitetur ; vel statim è brachio ejusdem lateris vena aperienda, vel expectandum & videndum, an ab ista evacuatione pleuritis minui possit, guod itidem vult Varandæus. Etenim justam evacuationis bujus mensuram definire non ita facile est, eaque non nisi ex tolerantia fæminæ æstimari potest. Itaque ets sic satis copiose Janguis

Sanguis post partum fluere videatur, si tamen pleuritis accedat, argumento est, naturam non Jufficienter, neque omnes quos debet, humores per uterum expellere, sed partem eorum vitioso conatu ad pleuram, vel aliam partem depellere. Ideoque ut ab istis conatibus natura avocetur, nullo modo in brachio vena aperienda, quo modo conatus iste adjuvaretur sed in crure vena aperienda, ut totus natura, quod vitiosum & molestum est, expellere conantis impetus ad uterum convertatur, & natura, ad partes superiores sanguinem movere desistat. Neque etiam, an subsecutura lochiorum evacuatio vitiosum illum motum naturæ emendare & revocare possit, expectandum, sed statim natura suo ab instituto avocanda, nec naturæ vitiose agenti res committenda, ne dum medicus otiosus spectator est, illa in instituto suo pergat, & ita malum augeatur. Quarto, si post venam in talo, quod commodisfime fit nar' igiv, apertam, pleuritis nibil minuatur, sed dolor & difficultas spirandi perseveret, vel etiam augeatur, non quod vult Massarias, in venarum in crure sectione persistendum; cum illæ nibil aliud quam revellere, nullo verò modo ex parte affecta derivare queant, quod tamen in morbo periculoso ut fiat, necessarium est. Si enim vena in crure secta pleuritis non minuatur, vel

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vel etiam augeatur, indicio est materiam ita jam parti affectæ inhærere, ut versus uterum ampliùs revelli non queat. Ideoque vena tum in brachio ejusdem lateris aperienda, ut sanguis è loco affecto vicinisque partibus evacuetur & derivetur; quod nisi fiat, ægra in vitæ periculum conjicitur. Neque metuendum, ut hoc modo natura à motu ordinario versus uterum avocetur; cum ei incommodo per venam in crure apertam jam obvium itum sit: & si aliquid omnino periculi metuatur, frictionibus & cucurbitulis cruribus appositis, dum vena secatur, id præcaveri possit; interdum etiam tempus illius evacuationis maxima ex parte jam præterierit; interdum verd, ubi natura plane vitiose agit, vix motus quem omisit, revocari possit, & propterea vices ejus venæ in crure apertæ suppleverit, ut postea sine periculo, parti affectæ & pleuriti, vena propiore aperta, fuccurri poffit "."

1640. LAZARI RIVERII, opera medica universa. Francofurti, 1674. lib. xv. cap. xxii. De suppressione lochiorum.

Our author, LAZARUS DE LA RIVIERE, commonly called RIVERIUS, supposes the

> ^{*} Pag. 751. Q

puerperal

puerperal fever to be owing to an obstruction of the lochia; and observes, that the happy fuccefs of childbearing doth principally depend upon a proper flow thereof. He follows SENNERTUS in afcribing certain impurities to the blood collected in the veins of the uterus, and other parts of the body, during the nine months going with child; and in fuppoing them to be purged off by this discharge. Hence if it be fuppreffed, or diminished, infinite dangers, and calamities are faid to arife; fuch as, acute fevers, phrenfies, madnefs, melancholy, quinfies, pleurifies, peripneumonies, inflammations of the uterus, and malignant tumours. The caufes of this fuppression. he afcribes to a too great thickness of the blood, a narrowness or obstruction of the veffels, cold air, inadvertently received into the uterus, which clofes the orifices of the veffels; taking cold at the feet, drinking of cold water, fear, terrour, grief, and other paffions of the mind, which withdraw the course of the blood from the uterus. His characteristic fymptoms, which attend this fuppression, are, a fwelling of the belly, pain of the lower part of the abdomen, loins, and

and groin; rednefs of the face, difficulty in breathing, perturbation of the eyes, rigors, fevers, faintings, and other fymptoms related above. For the cure he advifes, emollient opening clyfters, and cupping-glaffes to be fixed to the groin and hips, both with and without fcarification. If thefe means are of no effect, the veins about the knees, or in both the thighs, are to be opened, or the hæmorrhoidal veins, if nature feem to point that way. But if this fever be attended with a total fuppreffion of the *lochia*, then a vein muft be opened in the arm.

1662. Тномж WILLIS, opera omnia. Amstelodami, 1682. cap. xvi. De puerperarum febribus.

He begins this chapter with observing, that the fevers of lying-in women are attended with much more danger, than those which happen in common, and that they differ very materially both from a simple, and putrid *fynochus*. The antecedent causes of these fevers he supposes, with SENNERTUS and RIVERIUS, to be a depraved disposition of the blood, from the long suppression of O 2 the

the menftrual flux, during pregnancy; or from some evil affection of the uterus after childbirth. By thefe means he imagines that the blood is put in motion, that its fulphureous parts are exalted, rendered inflammatory, and imbued with fermentative particles, fo as to difpose it towards putrefaction, and to impoifon, as it were, the nervous fluid, and render it hurtful to the brain, and to the whole nervous fystem. Those kinds of evil, he fays, being imprefied upon the blood, ought to be purged off by the flux of the lochia; but if, after delivery, this difcharge fhould be suppressed, a purification is prevented, a general corruption takes place, and infects the whole mafs. Convultive affections, alfo, arife about the uterus, which are communicated to other parts; inordinate motions are stirred up in the juices, which frequently confpire either to the production, or the exacerbation of the fever. The evident caufes, which tend to induce this change upon the body, are faid to be various. Such as, a painful labour, a folution of continuity about the uterus, a bruise, a retention of fomething which ought to be evacuated, an

PUERPERAL FEVER. 109 an ulcerous difposition, and many other accidents of the like kind.

As to the cure, if bleeding be indicated, and there be a fullnefs of blood, and a very acute inflammation in the diftempered part, he advifes a vein to be opened in the foot, or to take away blood, from the hæmorrhoidal veins, by leeches. But if neceffity urges, the operation may be performed in the arm, and if a fecond bleeding be required, it may be done in the leg. He concludes, this part of the cure, with this precaution, that a vein is not to be opened without great deliberation; for unlefs it bring prefent help (which he has rarely known it do) the pulfe immediately becomes more weak, and the patient is made worfe.

1667. FRANCISCI DE LE BOE, SYLVII, praxis medica. Amstelodami, 1674. lib. iii. cap. viii. De lochiorum vitiis.

This phyfician, likewife, afcribes the puerperal fever to a deficiency of the lochial flux. A total fupprefilon, he fays, cannot happen without greatly endangering the life of the patient. "*Retentus namque tunc in uteri fubstantia*

tia cavernofa fanguis, mox ibidem corrumpitur, ac inflammationem, abfceffum, ulcus, aliaque mala plura fucceffive producit¹." He thinks if there has been a large difcharge of blood at the time of delivery, and a ftoppage afterwards, that it fhould not be termed a fuppreffion; becaufe, in this cafe, what ought to have come away, in the courfe of nature, after delivery, is preternaturally difcharged immediately after childbirth. Cold imprudently received into the cavity of the uterus, at the time of labour, or applied externally to the fkin, is fuppofed chiefly to conduce to this total fuppreffion.

When the diforder arifes from cold, he advifes aromatics impregnated with a volatile falt, and uterine medicines, efpecially fuch as promote fweat. But when a fever is excited, by this fuppreffion, he admonifhes the prefcriber to be very careful in the ufe of thefe aromatics, left they fhould increafe the febrile heat; and directs them to be qualified by the addition of acids, fuch as diftilled vinegar, fpirit of falt, vitriol, and the like. This is the more remarkable in

* Pag. 329.

SYLVIUS,

PUERPERAL FEVER. III

SYLVIUS, as he is generally condemned for prefcribing volatile alcaline falts, in fevers, and afcribing their caufe to an acid. But I muft do him the juffice to fay, that, in the cure of this difeafe, his rules are generally laid down with great accuracy, and judgment.

1668. Traité des maladies des femmes groffes. Par FRANÇOIS MAURICEAU. A Paris, 1721. tom. i. liv. iii. cap. viii. &c.

Pains after childbirth, fays our author, are frequently occafioned by the fudden fuppression of the lochia, the matter of which choking up, as it were, the whole fubstance of the uterus, and there stagnating, caufes a great diffention of the part, and an inflammation, which communicates itfelf, by means of the peritonaum, to the whole hypogastric region; which hence becomes inflated, distended, and extremely hard, and, if the complaint be not foon removed, it frequently proves fatal in a very fhort time. When things are thus circumftanced, he recommends opening clyfters, and the application of warm and 62564

and aperitive fomentations to the *pudenda*. These are to be affisted by venæfection, which he prefers sometimes in the foot, fometimes in the arm, and reasons upon it in the manner following :

" La faignée du bras doit être quelquefois preferée à celle du pied, & d'autrefois celle du pied se fait plus surement que celle du bras: comme par exemple, supposons une femme fort replete d'humeurs, & principalement de sang dans toute l'habitude, qui ait une suppression de ses vuidanges, causée par l'obstruction des vaisseaux qui les devroient laisser écouler, pour raison de quoy une inflammation de matrice luy soit survenue, ayant outre cela une grosse fiévre, & une grande difficulté de respirer, ainfi qu'il arrive ordinairement en ces rencontres: Il est très-certain que si on saignoit d'abord du pied cette femme, qui est extrêmement plethorique, on attireroit vers la matrice une si grande abondance de ces humeurs, dont toute l'habitude regorge, que son inflammation en seroit beaucoup augmentée, & par consequent tous les accidens de la maladie: Mais il vaudroit bien mieux en ce cas, désemplir au plûtôt l'habitude par la Saignée du bras premierement, laquelle on réitereroit même deux ou trois fois s'il étoit necessaire; après

après quoy les plus pressans accidens étant en partie diminuez, on pourroit fort à propos venir à celle du pied; car par ce moyen la nature qui étoit presque accablée sous le faix de l'abondance des bumeurs, en étant allegée d'une partie, domine & regit plus facilement le reste: Mais au contraire, s'il y a suppression de vuidanges, sans apparence de grande plenitude au corps, & sans aucun notable accident, pour lors on peut pratiquer d'abord la saignée du pied, si on le souhaite: Neanmoins je trouverois souvent plus à propos qu'elle fût précedée de quelqu' une du bras, pour dégager par ce moyen plus promptement la poitrine, à laquelle on doit particulierement avoir égard en cette occasion. C'est pourquoy je ne suis pas de l'opinion de Mercurial, qui veut qu'en toutes suppresfions de vuidanges on saigne toujours d'abord la femme du pied, & non pas du bras."

1682. THOMÆ SYDENHAM, opera universa. Lugduni Batavorum, 1726.

The faithful SYDENHAM hath no where expressly treated of the puerperal fever,

> ^e Chap. x. pag. 418 P

unlefs

unlefs the posthumous work, under the title of Proceffus integri in morbis fere omnibus curandis, may be afcribed to him. There the difeafe is fuppofed to arife from a fuppression of the lochia, and is faid to be accompanied with a fwelling of the belly; a dull pain in the lower part of the abdomen, loins, and groin; rednefs of the face; a difficult refpiration; a wild look; fhivering; an acute fever; fainting; cold fweats; pulfation and heat in the uterus; a palfy in the lower parts; and fometimes an epilepfy 1. But as this piece was not published by our author I will take no further notice of it, but pafs on to his genuine works, where he has delivered his fentiments pretty plainly of the caufe of fevers after delivery.

In his epiftolary differtation, to DR. COLE, he obferves, that fome women of delicate conftitutions, by rifing too early after childbirth, will be feized with the hyfteric diforder which, in that cafe, brings on a total fupprefilon of the *lochia*, fucceeded by a numerous train of fymptoms which foon prove fatal, unlefs prevented by great

Pag. 610.

fkill

skill and diligence. He likewife takes notice, that a fuppreffion of the lochia is fometimes followed by a fever, which either partakes of the then reigning epidemic, or proceeds immediately from it. And adds, that the fame hyfteric diforders which first occasioned the suppression of the lochia, rage now more violently, and, as it were, generate themfelves afresh. 65 Lochia, inquit, primum imminuuntur, deinde sistuntur penitus; quorum suppressionem præmaturam longa symptomatum series excipit: quæ, nisi permagna tam diligentia, quam in medendo peritia, intercedat, ægram brevi perimunt. Nonnunguam post lochiorum suppressionem in febrem incidunt, quæ vel in earum, quæ tum grassantur, epidemicarum castra transit, vel ab ea sola pendet origine. Adde quod iidem adfectus bysterici, quibus lochiorum suppressio in primis debetur, jam magis sæviunt, tamquam ex se denuo nati 1."

Here that excellent physician (I speak with reverence) seems to have lost his usual fagacity, and not rightly to have diffinguished symptoms of the puerperal sever, from those

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of the hysteric difease, but to have confounded them together. He might probably be led into this error from what he had obferved of the hysteric difease, namely, that it could affume almost any shape. " This disease is not more remarkable, fays he, for its frequency, than for the numerous forms under which it appears, refembling most of the diftempers wherewith mankind are afflicted. For in whatever part of the body it be feated, it immediately produces fuch fymptoms as are peculiar thereto: and unlefs the physician be a perfon of great judgment and penetration, he will be miftaken, and fuppofe fuch fymptoms to arife from fome effential difease of this or that particular part, and not from the hyfteric paffion "." He then enumerates the apoplexy, hemiplegy, convulfions, clavus hystericus, palpitations of the heart, cough, pains refembling the iliac paffion, a vomiting of green matter, or of an uncommon colour, the jaundice, a nephritic paroxyim, a diarrhoea, a finking of the fpirits, pains of the face, teeth, shoulders, back, hands, thighs, and legs, as being all

¹ Pag. 388.

fubject

fubject to its influence : and concludes with obferving that DEMOCRITUS, in writing to HIPPOCRATES, did not without reafon affert, that the *uterus* was the origin of fix hundred evils, and innumerable calamities! Is it then much to be wondered at, that a diforder, appearing under fuch a variety of forms, fhould, for once, deceive even a SYDENHAM?

To remove a suppression of the lochia, he orders the woman to be confined to her bed, an hysteric plaster to be applied to the navel; and prefcribes an electuary composed of the conferve of Roman wormwood and rue, troches of myrrh, caftor, faffron, volatile falt of fal Ammoniac, and afa fætida; of which the quantity of a large nutmeg is to be taken every three hours, drinking after it four or five fpoonfuls of a julep prepared with equal parts of the distilled water of rue, and compound bryony water 1. I will not take upon me to fay but that fuch edged tools as thefe, to provoke the lochia, might be very fafe, in the hands of our English HIPPOCRATES, but this I will

* Pag. 423.

venture

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A TREATISE ON THE

venture to fay, that they are not at all well calculated, for general use, to remove an

Aruction of the *lochia*, for very obvious reafons which have already been recited when treating of the cure. Indeed, I have taken notice of this paffage with no other view, than to put the incautious reader upon his guard; left, confiding in fo great an authority, he fhould be too apt to have recourfe to fuch dangerous engines as thefe, upon any fupprefion of the lochial difcharge.

1708. HERMANNI BOERHAAVE, apborifmi de cognoscendis & curandis morbis. Lugduni Batavorum, 1737. Morbi puerperii. apb. 1329, Sc.

The caufe of the puerperal fever, according to this illuftrious profeffor, is a retention of the *lochia*, about the time that the ferous milky nourifhment is making its way, from the newly contracted veffels of the *uterus*, towards the breafts; whence numberlefs fymptoms arife, and of the worft nature, according as the *lochia* are carried, and thrown upon different *vifcera*: fuch as, phrenfies

phrenfies, pleurifies, peripneumonies, quinlies, inflammations of the diaphragm, breafts, liver, ftomach, caul, mefentery, fpleen, kidnies, and inteftines; as alfo, dyfenteries, colics, iliac paffions, apoplexies, palfies, and a great many other dangerous evils.

To prevent, or remove thefe complaints, he advifes gentle anti-acid remedies to fheath the acid *ferum*; foft diluents; the mildeft fpecific aperients, from the moderately cordial, uterine clafs; topical deobftruents, clyfters, fomentations, cataplafins, plafters, liniments, cupping-glaffes, peffaries, and fuppofitories. He thinks that bleeding fhould never be practifed, in this difeafe, without the moft urgent neceffity; but does not fpecify the nature of fuch neceffity. And laftly, he cautions the phyfician from treating the above fymptoms, as if they were original acute difeafes.

1716. Criticon febrium: or, a critical effay on fevers. By EDWARD STROTHER, M. D. London, 1718. cbap. ix. pag. 212. The puerperal fever.

This is the first writer, I have met with, who gives the name of puerperal fever to this diforder.

diforder. He fays that it is preceded by fymptoms common to other fevers; that its diftinguishing marks are, pains in the hypogastric region, *abdomen*, and loins. He suspects it to appertain chiefly to the class of inflammatory fevers; and supposes it to be caused by a suppression of the *lochia*.

1720. FRIDERICI HOFFMANNI, medicina rationalis fystematica. Halæ Magdeburgicæ, 1734.

It is not very evident whether this celebrated phyfician claffes the puerperal fever under the head of an inflammation of the uterus, or the hysteric difease. An inflammation of the uterus, he fays, is owing to an unequal circulation of the blood through the uterine yeffels; namely, the capillaries being filled, and obstructed, by a spasmodic constriction, the blood is carried with greater velocity and force through the contiguous minute veffels, and their lateral branches, which in common do not admit the red part of the blood; whence arifes tumor, rednefs, and fense of heat, with a compression and irritation of the nervous coat. Among the general

general caufes, which conduce to an inflammation of the uterus, he enumerates a plethoric and bad habit of body, a fuppreffion of the lochia, a copious flux of blood to the uterus, a laborious birth, paffions of the mind especially anger and terror, vehement efforts to vomit, external cold applied to the region of the abdomen and uterus, drinking of cold liquors during the lochial flux, a convulfive colic, and a violent fpafmodic hysterical affection 1. In treating of the hysteric difease he observes, that a suppreffion of the lochia, happening early after delivery, will frequently occasion violent hyfterical fymptoms, but does not mention what those fymptoms are, and quotes HIPPOCRATES in fupport of this opinion. " In puerperis verò, ob lochiorum non rite fuccedentem fluxum, bystericas passiones frequentius observamus; quod etiam suo tempore HIPPOCRATES notavit. Novimus puerperas, primis sæpenumero à partu diebus, ab aëre frigido ad imum ventrem admisso, à levi animi motu, à longiori corporis extra lectum detentione, in sæva symptomata bysterica incidisse;

Tom. iv. part. i. sect. ii. cap. x. De inflammatione & febre uterina.

qua

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quæ etiam presso insequentur pede, si, lochiis primis statim diebus deficientibus ac cessantibus, Sectione venæ tempestiva haud succurratur "." To remove an obstruction of the lochia, he prefers bleeding in the foot, rather than in the fuperior parts of the body. " Sanguinis copia, inquit, sub graviditate justo plus accumulata, minuenda per venæ sectionem, non in superioribus, sed in pede institutam. Sæpe enim à nimia vasorum distentione funt spasmi, & Sanguinis exsuperans moles uteri compagem nimiùm distendendo, ejusdem systalticam & expulsivam potentiam minuit ac impedit. Hinc venæ sectionis remedium omnino maximi, ad promovendum lochiorum fluxum & inflammationem arcendam, est usus. Quod sicuti in Gallia, bunc in finem, frequentius quam par est adhibetur; ita perperam in nostra Germania rejicitur, ut plures, inflammatoria uteri febre, correptæ pereant, quæ tempestiva sanguinis missione potuissent fervari 2.

> * Tom. iv. part. iii. cap. v. De malo hysterico. * Tom. iv. part. i. fect. ii. cap. x.

> > 1722.

1722. Traité complet des accouchemens naturels, non-naturels, & contre nature. Par le Sieur DE LA MOTTE. A Paris, 1722. livre v. chap. vi. Des vuidanges qui coulent durant les couches de la femme, & de celles qui sont supprimées.

This author follows the opinion of MAURICEAU, in fuppofing the difeafe to proceed from a suppression of the lochia. He apprehends that this obstruction may arife from a variety of caufes, and fome of them very flight ones, as will appear in the fequel. If the lochia continue to flow for a confiderable time, or if they fhould even ftop after a few days continuance, if this be the effect of nature and no ill confequence follow, he fuppofes no danger. But on the contrary, if this difcharge has been pretty plentiful for feveral days, and is fuddenly fupprefied by any caufe whatever, he then fays it is always followed by fome troublefome accident; and that nothing is more unaccountable, and irregular, than the caufes which produce this fuppreffion. For though they may fometimes be fufficiently confiderable, they are at other times fo very inconfiderable, 25

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as to be really furprifing. I will recite them in his own words. " Il n'est pas extraordinaire que cette suppression succede à un emportement furieux, à une extrême peur, à une excessive joye, & à d'autres semblables passions, mais qu'elle arrive pour un mot dit par inadvertence, ou à l'occasion d'une bonne ou mauvaise nouvelle presqu'indifferent, à la personne à qui on la debite, par l'odeur d'une fleur, par un petit froid, par une peur legere, à l'occasion d'un cry imprévu, soit dans la rue au dans la maison, & enfin un rien pour ainsi dire, dont la réflexion a causé la plus legere émotion, & -qui interceptant le cours de ces humeurs, en cause à l'instant un reflus sur le bas ventre, E par toute l'habitude du corps, & qui donne lieu à une fiévre, à une tension, à une douleur au bas ventre, à l'oppression, au délire, & enfin à la mort ","

1751. An effay towards a complete new fystem of midwifery. By JOHN BURTON, M. D. London, 1751. Part iv. § 165.

The caufe of the puerperal fever, according to this writer, is an inflammation of the

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uterus.

uterus. " Sometimes an inflammation of the womb, fays he, whether caufed by the midwife, the stoppage of the lochia, or the like, will bring on After-pains as fome call them; and then the fymptoms generally are, a violent tenfion, heat, and pain in the hypogastric region, which the patient can fcarce bear to have touched; and fhe can lie in no other polition than on her back; if fhe tries ever so little to lie on a fide, she feels a heavy and painful weight falling on the fame fide; the loins and groin on the contrary fide fuffering an intolerable pain; which increases with a tension on the belly, a fever, and difficulty of breathing; when the lochia either are leffened, or wholly ftopt, with a conftant inclination to make water, and fometimes with pains in the thighs. Plentiful, but proper bleeding (for the cure) with a cooling regimen, is, in general, abfolutely neceffary; and if the diforder proceed from a bandage round the abdomen being too tight, the caufe must be removed ; but if the inflammation be caufed by a ftoppage of the lochia, emmenagogues and all kinds of warmer ftimulants and purgatives must be avoided; and the fecretion of the milk must be promoted, moditiva

moted, which is a method I never knew any author to take notice of, or to follow, in order to remove these uterine complaints '."

1752. A treatife on the theory and practice of midwifery. By W. SMELLIE, M. D. London, 1762.

He supposes that this difease may arise either from an inflammation of the uterus, or an obstruction of the lochia; and that the one is generally the confequence of the other. " As there are feldom inflammations in the uterus, fays he, 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 "." When the difeafe is recent he orders the patient to lie quiet, and encourage a plentiful diaphorefis by drinking frequently of warm, weak, diluting fluids; and likewife by taking opiates and fudorifies in different forms, as may be agreeable to her ftomach. Should thefe methods be used

[•] Pag. 338, 339. [•] Vol. iii, pag. 448.

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without fuccefs, and the patient labour under a hot, dry fkin, anxiety, and a quick, hard, and full pulfe, the warm diaphoretics are to be laid afide, and recourfe muft be had to bleeding at the arm or ancle to more or lefs quantity, according to the degree of the fever and obftruction; and this evacuation muft be repeated as there is occafion : when the obftruction is not total, it is fuppofed more proper to bleed at the ancle, than at the arm; and at the latter, when the difcharge is altogether ftopped¹.

1762. Avis au peuple sur sa santé: Par MR. TISSOT. A Paris, 1770. tom. ii. chap. xxvi. § 369. Suites des couches.

This experienced physician ascribes the cause, of the puerperal fever, either to an inflammation of the *uterus*, or a suppression of the *lochia*; but most probably to the latter. He includes, the most usual consequences of childbirth, under the four following heads: 1. An excessive hæmorrhage. 2. An inflammation of the *uterus*. 3. A sudden suppression of the

; Vol. i. pag. 408, 409.

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lochia,
lochia. 4. The fever, and other accidents, refulting from the milk. The inflammation of the uterus, he fays, is difcoverable by pains in all the lower parts of the belly; by a tenfion or tightness of the whole; by a fenfible increase of pain upon touching it; a kind of red stain or spot, that mounts to the middle of the belly, as high as the navel, which spot, as the difease increases, turns black, and then is always a mortal fymptom; by a very extraordinary degree of weaknefs; an amazing change of countenance; a flight delirium; a continual fever, with a weak and hard pulse; fometimes inceffant vomitings; a frequent hiccough; a moderate discharge of a reddish, ftinking, fharp water; frequent urgings to go to ftool; a burning kind of heat of urine; and fometimes an entire fuppreffion of it. For the cure he recommends bleeding; frequent. clyfters of warm water; injections of the. fame kind into the uterus; and aqueous fomentations to be continually applied over the belly. He observes that a total suppreffion of the lochia proves a caufe of the most violent diforders, and fhould be treated exactly in the fame manner as an inflammation of

PUERPERAL FEVER. 129 of the *uterus*: and that if unhappily hot medicines have been given, in order to force them down, the cafe will generally prove fatal.

1764. GERARDIL. B. VAN SWIETEN, commentaria in HERMANNI BOERHAAVE aphorismos de cognoscendis & curandis morbis. Lugduni Batavorum, 1764. Morbi puerperii, tom. iv. § 1329, &c.

This learned commentator enters thoroughly into the fpirit of his author, and explains in a full and mafterly manner the text of his celebrated preceptor. He agrees with him that a fuppreffion of the *lochia* is a caufe of puerperal fevers, but, at the fame time, feems rather inclined to think that they are more generally occafioned by a translation of the lacteal matter, than of the *lochia*, upon different parts of the body. " An non ex bactenus dictis (ait) concludi poteft, metaftafin lacteam producere poffe omnia illa mala, quæ in textu enum erantur¹, & quæ lochiis fuppreffis tribui

Recited above in page 119.

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folent ;

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Solent: prout nempe in bas illasve partes deponitur materia lastea, & quidem tanto majori cum periculo, quanto partes, in quas deponitur, ad vitam magis necessariæ fuerint, uti etiam, si materia hæc deponatur in loca, ex quibus difficulter eliminari poterit. Non tamen in illa opinione sum, ac si lochia retenta nullum facerent periculum; sed tantum boc monendum esse credidi, etiam de depositione materia lastea ad varia loca corporis cogitandum esse. Lochia enim naturaliter minuuntur illo tempore, quo febris lactaria solet incipere, & vix sanguinea fluunt tunc, sed potius subpurulenta. Primis autem diebus puerperii majus videtur esse à lochiis retentis periculum; sequentibus diebus, post febrim lactariam, minus; ita tamen, ut si retineretur illud purulentum, quod tunc exire solet, ab ejus resorptione in sanguinem multum mali metuendum foret '." He also observes, that a retention of the lochia may occafion an inflammation of the uterus; and on the contrary, that an inflamed uterus, from a laborious birth or any other caufe, will be attended with a suppression of the lochial discharge. He

* Tom. iv. pag. 612.

remarks

remarks that a diarrhoea, after childbirth, is not always to be dreaded, notwithftanding it be looked upon, by many, as a very dangerous fymptom which ought to be removed; and mentions an inftance where he himfelf was highly cenfured, by the byftanders, for not checking that evacuation. " Probe memini, dum puerperæ, gemellos enixæ, curam gererem, me pessime exceptum fuisse ab adstantibus, dum nollem alvi fluxum compescere. Tertia die lochia omnino suppressa fuerant; venter durus & dolens erat. Mollissimis fomentis adhibitis, lenissimis aperientibus decoctis copiose potatis, per alvum exiverunt viridia, fætidissima, & quidem cum infigni levamine; ac brevi convaluit 1." It hath been remarked above, that BOERHAAVE forbids bleeding, in the puerperal fever, unlefs urged by the greatest necessity; but omits mentioning the nature of that necessity. His ingenious commentator hath fupplied that defect, as well from his own experience as that of others, in the following words: " In puerperis pleuritide correptis, licet lochia fluerent, sanguinis missio profuit insigniter, quod

> * Tom. iv. pag. 613. R 2

in

E suis observationibus confirmat LA MOTTE, qui, lochiis bene prodeuntibus, repetitas etiam in brachio venæ sectiones instituit¹. Dum octavo à partu die acerbissimus lateris dolor corripuisset puerperam, TULPIUS, cùm identidem novis insultibus urgeret dolor, ter pedis, E quinquies brachii, venas solvere debuit. Tantam sanguinis jacturam non solùm toleravit, sed E ingens alvi prosluvium sustinere debuit, antequam integre debellaretur morbus²."

1765. Traité des maladies des femmes. Par J. ASTRUC, Professeur Royal de médecine, & Médecin consultant du Roi. A Paris, 1765. tom. v. liv. iii. chap. xiv. § 3. Des vuidanges supprimées.

This phyfician ranges the puerperal fever under the head of obftructed *lochia*. The obftruction, he obferves, may be total, or only partial; and may either happen about the fecond, or third day after delivery, or not till towards the feventh, or eighth. The former cafe he fuppofes to be much

^{*} Tom. iii. pag. 35, 36. ² Tom. iv. pag. 634.

more

PUERPERAL FEVER. 133 more dangerous than the latter. He fays the fymptoms, which accompany this fuppreffion, are different in different perfons. The general ones are, a tenfion, fwelling, and pain of the *uterus*; pain in the loins, bottom of the fpine, and groin; a *naufea*, and vomiting; difficulty in breathing, and fpitting of blood; rigors, fever, inflammation of the *uterus*, and fometimes a *delirium*, a coma vigil, or coma fomnolentum.

He attributes a fuppression of the lochia to four caufes. The first of these causes is, the patient's catching cold: whether it be by the cold air getting into the uterus, through the neglect of the nurfe, in not keeping the parts covered; or through the patient being exposed to cold at her feet, by not keeping the room fufficiently warm; or from the imprudence of fuffering her to drink her liquors too cold. The fecond caufe is, any unexpected trouble, grief, or fear: the paffions of the mind, he fays, especially when they are fudden, produce a constriction of the uterus, that wholly fuppreffes the discharge. The third caufe is, a violent fupervening diarrhoea; the confequence of indigeftion, from

from having eaten too much; the great evacuation, that is made by ftool, neceffarily diminishing that which should be made by. the uterus. Laftly, the fourth caufe is, an inflammation of the uterus; which, by tumefying its fubftance, clofes up all the veiny appendages from whence the blood of the lochia flows. This inflammation, he obferves, is always the confequence of fome hurt, which the interior part of the uterus has received, in a laborious delivery, from the hands of an unskilful midwife. He concludes, by remarking, that this laft caufe must produce a suppression of the most dangerous kind; and that experience but too much confirms it.

His fentiments, with refpect to bleeding in this difeafe, he delivers in the following terms: "Si la fuppression vient de l'une des deux premieres causes, il faut d'abord employer la saignée pour prévenir la plethore, & pour relâcher & détendre la matrice, & tâcher de rétablir le cours des vuidanges. On a longtemps disputé si c'étoit du bras ou du pied qu'on devoit faire ces saignées; mais la question me paroit aujourd'hui décidée. Si les vuidanges ne sont pas tout-à-fait supprimées, c'est du pied qu'il faut saigner,

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PUERPERAL FEVER. 135.

faigner, parce qu'on peut esperer, en attirant le sang sur la matrice, de forcer les obstacles & de rétablir les vuidanges. Mais si les vuidanges sont tout-à-fait supprimées, il ne faut point attirer le sang sur la matrice, d'où il n'a point d'isse, & il faut saigner du bras. On ne peut pas fixer le nombre des saigneés, mais si le mal présse, & que les forces de la malade le permettent, il faut en faire quatre dans les deux premiers jours 1?

1766. A Compendium of Midwifery. By THOMAS COOPER, M. D. London, 1766. part iii. fect. iii. Difeafes confequent on delivery.

This fever, he obferves, is a truly dangerous and perplexing malady; that it proceeds generally from violent affections of the mind, as grief, defpondency, and the like; from the drinking of ftrong liquors, or caudle too highly fpiced; from obftructed perfpiration, and evacuations. That the fymptoms are, most commonly, a flow creeping pulfe, which afterwards becomes

* Pag. 414.

very

very quick; that fometimes the pulfe is quick at firft, and flow afterwards; in fome quick, full, and ftrong; in others, quick, with alternate heats and fhiverings, pains in the belly, breafts, and fides; a cough, a dry fkin, and hardnefs of the *abdomen*. He remarks that, as the difeafe increafes, the inflamed *uterus* becomes putrid, and difcharges a fetid *fanies*; and that, by the fourth day, the fever puts on quite a putrid nature.

" Though this diforder, fays he, is of the inflammatory kind, it feldom will bear to be treated as fuch; for which reason, unless the pains are very great, we fhould not bleed, at least for the first eighteen or twenty hours. Women after their first labour generally bear bleeding better than those who have had many children : the pulfe, on a nice obfervation, will feldom be found tenfe, though quick and full, but is most commonly weak and undulating; nervous and hysterical women cannot bear the lofs of much blood, wherefore, when it is neceffary to bleed fuch patients, the quantity, at first taken away, fhould be fmall. In fhort, this will hold good in all conftitutions in general, where this diforder occurs; as it is not certain

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tain that difeafes of the *vifcera* are relieved by this evacuation: and if venæfection is ufed after the third day, unlefs the pains are violent, the pulfe ftrong, and the inflammatory fymptoms run high, it is generally prejudicial ¹."

1768. Elloys on the puerperal fever, and on puerperal convultions. By THOMAS DENMAN, M. D. London, 1768.

This writer, as far as can be collected from the following paffages, fuppofes the puerperal fever to be attended with an inflammation of the *uterus*. "There is a fenfe of throbbing pain, fays he, and uneafy heat, through the parts in general. The urine is voided often, with pain, and in a fmall quantity, as if the inflammation, originally in the *uterus*, had reached the neck of the bladder². Great care muft be taken in the adminiftration (of clyfters) or the patient will fuffer intolerable pain, on account of the tendernefs and inflammation of the *os internum*³." The predifpofing and occafional

* Pag. 219.

² Pag. 9.

causes

3 Pag. 33.

caufes are faid to be, a redundancy of the quantity, or an exaltation of the quality of the bile; unwholefome diet, fudden frights, and rifing too foon after delivery ; the ufe of hot fpices, the neglect of procuring ftools after delivery, and every accident which obstructs perspiration. This difease, he fays, may follow a labour under the beft circumftances; but that endeavours to dilate the os internum, and too hafty a feparation of the placenta, or binding the abdomen tight after delivery will often produce it; he does not however include hard labours as a frequent caufe, fince it is remarkable that women recover very foon after them 1.

His fentiments, with refpect to venæfection, are expressed in the following manner: " After the most careful observation, the event has fo often proved to me, that large bleedings weaken the fick, without proportionably leffening the difeafe, that I have for a long time never taken away blood in any quantity. In very full, fanguine habits of body, bleeding may be neceffary, but I think the repetition of it fhould be infifted upon with great caution 2." As an 3 Pag. 17, 18.

2 Pag. 23.

evacuant.

evacuant, he recommends a powder composed of two grains of *tartarum emeticum*, and one fcruple of prepared crabs eyes; of which he gives from two to fix grains, and repeats it as circumftances require, judicioufly obferving, that no benefit is to be expected but from its fenfible operation.

1769. A new system of midwifery. By ROBERT WALLACE JOHNSON, M. D. London, 1769. part iv. chap. vii.

He treats of the puerperal fever, in the seventh chapter, entitled, Of the Suppression of the lochia. " A fever, fays he, without a fuppreffion, is not uncommon in the month of childbed; but a fuppreffion, as far as I can difcover, is never to be found without a fever : yet (if diffinct) which is prior? or whether the fuppreffion is not, in fome cafes, the primordial, and in others the confequent, it is not eafy to determine. However, leaving the decision to future discovery, I shall, in order to inform the fludent as well as I can, take notice first of the most probable causes, Scc. First then, the causes, which may be affigned, are very different, to wit, a peculiar miaſm S 2

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miafm in the atmosphere; an admission of cold air fo freely to the furface of the body, as to excite rigors, &cc. an ingress of fuch air into the cavity of the *uterus*, whereby the blood may be fuddenly thickened or congealed; an over-heated or hurried circulation, by which the uterine veffels may be overcharged or fuffocated; every thing capable of bringing on an inflammation in the fubfrance of the *uterus*, or in any part fo connected with it, as to affect it; any violent or inftantaneous agitation of mind; or whatcver is capable of exciting irritation. A fupprefilon of the lacteal fecretion, as alfo a *diarrhoea*, may contribute to it ¹."

Among the curative indications, hereckons as the first, a timely diminution of the quantity of the blood. For this end, he recommends venæfection as the most eligible means, and lays very great stress upon it, provided it be hegun early, that is, foon after the attack, while the pulse is full, or before the *viscera* are much affected; for he remarks, that if this opportunity be lost, the inflammation increases fast, the pulse sinks, becoming small, quick, weak, and at last irregular; so that bleeding now would be very injudicious.

1 Pag. 338, 339.

1770.

1770. Observations on the prevailing diseases in Great Britain. By JOHN MILLAR, M. D. London, 1770. part iii. chap. ii, Of the puerperal fever,

This author, very judicioufly, ranks the puerperal fever among the popular difeafes of Great Britain; and indeed no writer, on the prevailing difeafes of any country, can hardly, with propriety, omit it. He claffes this fever with those which partake both of a putrid, and inflammatory nature. I shall give the author's opinion, of the caufes of this difeafe, in his own words. " The changes which the humours naturally undergo in women, during their pregnancy, render them more liable to the contagion of putrid difeafes; while the circumftances attending childbed produce inflammatory fymptoms, and hence often arifes a complicated fever, the most dangerous and difficult of cure of any which falls under the direction of the phyfician '. When a woman in childbed is feized with a remitting fever, if there is no irregularity in the usual evacuations, the,

' Pag. 330.

symptoms

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fymptoms are nearly the fame as those which were already deferibed in treating of that difeafe; but her particular fituation renders it more dangerous. If the ufual evacuations are fupprefied, the fever partakes more of inflammation, and is attended with particular fymptoms which require a peculiar treatment. But the puerperal fever is much oftener occafioned by the opposite extreme; yet that natural evacuation is not too rafhly to be pronounced exceflive, fince it is wifely intended to prevent the evil confequences which might arife from inflammation, or from obstruction in the veffels "."

Some phyficians, he obferves, affert that this difeafe is to be cured by venæfection, while others have maintained it to be permicious, and that cordials, opiates, and emmenagogues, are the only medicines which can be fafely ufed. When there is much pain, hardnefs, and fwelling in the belly, and efpecially if any injury has been received during the time of labour, bleeding, he fays, may be neceffary; but that as this remedy is ever to be ufed with caution in the puerperal fever, the application of it fhould

Pag. 333, 334.

always

always be directed by the advice of an able phyfician; and that no general rule can be given concerning it, fince there are many circumstances to be confidered, which render almost every new cafe a particular study. Those of a delicate constitution, continues he, do not bear a lofs of blood, and if it should be taken away imprudently, they are brought into great danger. If the hæmorrhage has been violent at the time of delivery, bleeding is then improper; but if, from the beginning, the natural evacuation has either been too fmall, or altogether fuppreffed; if the labour has been fevere, and if any violence has been used, it then becomes abfolutely neceffary, and fometimes muft be frequently repeated.

1771. A treatife on female difeafes. By HENRY MANNING, M. D. London, 1771. chap. xx. Of the puerperal fever.

This is the lateft author I have met with, who treats of the puerperal fever; and he brings us down nearly to the time that this publication was put to the prefs, that is, in the month of November 1771.

His fentiments, relating to the caufe of this diforder, he expresses in the following terms. "From all the most accurate accounts of this difeafe, and from the period at which it generally commences, there is reafon to conclude, that it owes its rife more immediately to accidents after delivery : for it is allowed, that it may follow a labour under the beft and most defireable circumstances; though endeavours to dilate the os internum, are fuppofed frequently to produce it. The more immediate caufes generally affigned by authors are, a stoppage of perspiration, too free an use of fpices, and the neglect of procuring stools after delivery; fudden frights, too hafty a feparation of the placenta, and binding the abdomen too tight. The putrid appearance, however, which this difeafe fo foon affumes, affords ground to fufpect, that the predifpofing caufe of it is a vitiated ftate of the humours: for it is generally obferved to be most prevalent in an unhealthy feafon, and among women of a weakly and a fcorbutic conftitution "."

* Pag. 397, 398.

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He remarks that, with regard to the method of cure, no difeafe has more divided the fentiments of phyficians, than the puerperal fever. That the apparent indications and contra-indications of bleeding, and other remedies, arifing from the complication of inflammatory and putrid fymptoms; the equivocal appearance of the vomiting and purging, as whether they are critical or fymptomatical; and the different caufes from whence fymptoms fimilar to each other may arife in pregnant women; all confpire to involve the fubject in great obfcurity and indecifion. Speaking of the cure he fays, that one of the most effential points to be afcertained, refpects the propriety of bleeding. That a free use of the lancet has been generally regarded as the most fuccessful expedient in practice; and that there are fome inftances of critical hæmorrhages which would appear to confirm its utility. But he thinks, he may fafely affirm from experience, that, for one who will be benefited by large bleeding, a much greater number will be injured, and that even almost irretrievably. That, indeed, he is fo fenfible of this fact, that for feveral years he has feldom advifed bleed-

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ing, except in women of plethoric conftitutions, and in whom the figns of inflammation role high: nor that even in fuch patients ought it to be repeated without great caution, and the exiftence of ftrong indications. And concludes with obferving, that, though bleeding ought in general to be ufed with great caution, there are certainly many cafes in which it is both neceffary, and advantageous.

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MEDICAL writers have ranged the caufes of difeafes under various heads; fome of them rather more fubtile, than ufeful. I fhall confine myfelf to three of them : the immediate, or proximate; the predifpofing, or remote; and the occafional caufe. The immediate, or proximate caufe, of a difeafe, is that which is fufficient of itfelf to produce the difeafe. The predifpofing caufes are fuch as precede, and lead on to the immediate; the occafional are fuch as fucceed, and promote the predifpofing caufes: thefe, being all combined together, form the immediate, or proximate caufe.

The immediate caufe, then, of the puerperal fever, is an inflammation of the intestines, and omentum. For the truth of this affertion I appeal to diffections. The chief predifposing caufe, as I apprehend, is T_2 the

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the preffure of the gravid uterus against the intestines, and omentum.

The uterus, after impregnation, rifes gradually, out of the pelvis, into the cavity of the abdomen. As it ascends, it carries its burden along with it, which receives a gradual increase in its bulk every day, for the fpace of nine months; till at laft it becomes fo large as to diftend the abdomen to an amazing degree. The progress of this diftention is fuppofed to be nearly as follows: In the fpace of three months, after conception, the uterus rifes above the brim of the pelvis; and the tumour in the abdomen begins to appear. At the fifth month, it is increased to a much greater magnitude, and rifes up as high as the middle fpace between the pubes and the navel. By the feventh month, the fundus uteri reaches as high as the navel, and at the eighth month, it is advanced midway betwixt the navel and scrobiculus cordis. In the ninth month, it rifes to within a small fpace of the lower point of the breaft-bone; and the neck of the uterus is then wholly distended with the fundus, in a globular form. It is eafy to imagine that the regularity of this diffension must vary, more or lefs, in almoft è de

almost every gravid fubject; according to the bulk of the child; the quantity of waters contained in the uterus, and many other contingent circumstances attending gestation: fo that the very fame woman will hardly carry her burden twice, exactly alike. It is remarked by authors that the fubstance of the uterus does not, in general, grow thinner by extension, but rather increaseth' in thicknefs; hence its preffure against any part which it may happen to reft upon, will be pretty great, even to the time of delivery. As the uterus increases in magnitude it will begin to fit heavy upon the inteftines, and by the end of feven months I fhould imagine, will prefs ftrongly against them. From that time to the approach of delivery the abdomen must be fo tense and full, and the pressure fo great against both the intestines and omentum, as greatly to interrupt the circulation in various parts of those viscera. And, near the term of childbirth, it must be fo much increafed, that it appears to me much more wonderful, that the difease does not oftener happen, than that it happens fo often as it does. But the all-wife Creator, who is provident in all his works, hath filled the gravid Hterus

uterus with a fluid, for the prefervation of the inteffines as well as the tender infant, during a flate of pregnancy, and conftructed the former as fo many large hollow moveable tubes, filled with air and other fluids, rolling gently one upon another, and therefore eafily yielding to preffure, and not fo foon affected by it. The fame wildom is also confpicuous in the fituation, and structure, of the omentum; for it is generally well guarded by plenty of fat, and not very fufceptible of feeling; and is placed, in a loofe flowing ftate, upon the foftly yielding inteftines. May not likewife that diffribution of the fat in lines, which run on each fide its blood-veffels, be defigned as fo many bolfters to defend them more effectually from preffure? At leaft, could any thing be more artfully devised for such a purpose! The omentum, in the latter part of pregnancy, must either lie flat, which is its natural fituation, or be rumpled and carried up, by the gravid uterus, in folds or doublings. When this laft is the cafe, which probably is not unfrequently fo, the danger of a ftrangulated circulation will be the greater.

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The general effects of this preffure of the gravid uterus upon the intestines and omentum will be, to interrupt the free circulation of the blood, particularly in those parts on which it happens to be most prevalent, and to deftroy the tone of the blood-veffels. The other parts, more free from this compression, will receive a larger quantity of blood into their veffels than ufual; by which means they will be diffended, their coats weakened, and the furrounding capillaries filled with half ftagnating fluids, and may become more or lefs inflamed. The evils attending this preffure must be increased by respiration. The diaphragm, at every full infpiration will prefs the inteffinal viscera ftrongly against the diftended uterus, and the abdominal mufcles will as ftrongly refift it. Hence all violent exercife, or labour, in an advanced state of pregnancy, must be very hurtful. The frequent vomitings, which happen to fome women in the latter end of gestation, may for the fame reafon be injurious. If the child's head, or any hard part of its body, should be fo placed in the uterus during gravidity, as to prefs ftrongly upon any particular part of the intestinal canal or omentum, then the danger

danger will be increafed; becaufe in that cafe, it would act upon it like a hard fixed body. As I am no practitioner in midwifery, I have not had an opportunity of attending fo minutely to the different complaints, arifing from this fuppofed preffure, during the ftate of pregnancy, as those who exercise that art. But I frequently meet with women, after delivery, endeavouring to account for their pains in the abdomen affecting any particular part, from the child's lying more on this, or that fide, during gestation.

The nearer the woman approaches to her time, the greater will be the mifchiefs arifing from this compression. As soon as actual labour comes on, the woman is feized with particular pains, returning at intervals, which occasion fuch repeated convulsive motions upon the abdominal mufcles and diaphragm, as to force the child down into the pelvis and caufe delivery. By this painful and laborious action the body is much heated, a fever, for the time being, is produced, the inteffines and omentum are ftrongly rubbed, and ground as it were, against the gravid uterus, at every convultive throe, till the child makes its way into the pelvis. After

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After the expulsion of the child and afterbirth, the uterus gradually becomes lefs and lefs, and at laft fhrinks down into the bottom of the pelvis. The teguments of the abdomen, which before delivery were greatly diftended, are now relaxed, and by degrees recover nearly their former state. The intestines and omentum, being freed from their incumbrance, the circulation becomes more equal through their whole fubftance; the veffels of those parts, on which the uterus chiefly lay, are immediately filled with blood; but being greatly weakened, by fuch a long continued preffure, they have almost lost their elastic power, and can fcarcely propel forwards their contained fluids. Just as we see a compression, on any foft external part of the body, will caufe a blacknefs in that part, probably from an extravafation of the fluids, which will not go off for feveral days. And why may not the fame thing happen to the tender fubstance of the intestines and omentum? By thefe means the veffels become completely filled with blood, and are ripe for inflammation. And if the injury done the inteftines and omentum, by these causes, or others to be

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enumerated hereafter, be fo great as to produce an actual inflammation, then will arife the puerperal fever. But if on the contrary, the veffels foon recover their ftrength, fo as to keep up a free circulation, in that cafe the patient will never be fenfible of any injury, and will be reftored to her health, as if nothing had happened. From hence we may account for the mischief arising from the neglect of procuring ftools, foon after delivery; and for the great danger of keeping lying-in women hot, and giving them warm spices, wine, and spirituous cordials; left the inteffines and omentum, already turgid with blood, fhould catch the flame and deftroy the patient !

I will now proceed to confider fome other evil effects arising from this preffure. By long compression the intestines are, in some measure, deprived of their peristaltic motion, their coats are weakened, and become in a manner paralytic. Hence costiveness, windy complaints, and spassmodic constructions in the bowels, so common to pregnant women. The confequence is, that, after delivery, their tone being lost, they become quickly

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quickly over-diftended with flatus, which I imagine happens more or lefs after all deliveries, but particularly after those that are unfuccefsful; the capillary veffels of their tunics having likewife, as faid above, loft their elafticity, are eafily diffended with blood, and foon brought into an inflammatory state. Befides, any particular part of the inteffines, not covered by the omentum, will be particularly liable to these inconveniencies. Now that part of the inteftinal canal, which is fituated in the hypogaftric region, is feldom covered by the omentum, but lies naked, and exposed to this compression. And as the child feems chiefly fupported in the abdomen, by refting upon the brim of the pelvis, the greatest preffure will commonly be upon the fmall inteffines, either in the right or left iliac region, or directly in the middle above the os pubis. From this last circumstance I account for the pain and tenderness of the hypogaftric region, which is generally the constant and infeparable companion of this difeafe, and therefore conftitutes the chief pathognomonic fymptom. In diffection the first, and fixth, the intestines were chiefly affected on the left fide; probably from the U 2 uterus.

uterus preffing more on that fide, than the other. In the fixth diffection it is obferved, that the coats of the inteffines were more thickened on the left fide of the abdomen, than on the right; which appearance is generally deemed a certain fign of a preceding inflammation. And this, in all probability, was the caufe of that partial circumfcribed inflammation of the intestines, a little above the os pubis, mentioned alfo in the fame diffection ¹. From all which it appears, that the inteffinal canal must particularly fuffer in this difeafe; especially in its inferior part, where the preffure is fo great, and fo constant, and where the intestines have no apron, or covering, fuch as the omentum, to defend them. And from hence likewife, as I imagine, arifes the great deception, among authors, relating to the caufe of this diforder. For, finding it generally accompanied with a pain in the region of the pubes, happening foon after delivery, they immediately concluded that it must of course be owing to an inflammation, or fome other affection of the uterus; which communicated its effects to the

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hypogaftric region, and was irritated by any compression made upon the *abdomen*. Whereas it appears, by the diffections, that the *uterus* was funk down within the cavity of the *pelvis*, out of the reach of external preffure, and in a found state. Hence then, I think, we may fairly conclude, that what they in general ascribed to an inflammation of the *uterus*, was owing purely to an inflammation of the intestinal canal.

The faces being long pent up, by the preffure of the gravid uterus, become putrid, and, in the large inteftines, often fo hard as to be concreted into a fort of balls. This evil extending, more or lefs, through the whole inteftinal circumvolution, that is, fix times the length of the perfon's body, affords an ample fource of putrefaction to irritate, and corrupt the inteftines, and, at length, to infect the whole fabrick ; but particularly the ftomach and omentum, parts which are injured by the fame caufes, and clofely connected. Those viscera, being once difeased, will act reciprocally upon each other: the bowels will affect the ftomach, and injured omentum; thefe, in return, will reflect back the diforder upon the inteffines; by which means

means the complaints will fometimes become fogeneral over the whole abdomen, that neither the phyfician nor the patient can hardly defcribe the true fituation of the diforder; however, generally speaking, its chief feat will be found in fome part of the hypogaftric region. A fever will fucceed, accompanied with great thirft, violent pain of the head, and frequently with a fickness at the ftomach, or vomiting. The body will be either coffive, or nature, by a beneficent effort, will indicate the method of cure, by a diarrhoea. If this last should be the cafe, and the discharge should be very plentiful, fo as thoroughly to empty the inteftinal canal, and make a revulfion from the inflamed inteffines and omentum, the difease will terminate favourably; unlefs it hath unhappily taken too deep root, before this falutary evacuation was brought about. Then, indeed, the inteftinal canal and omentum will become more and more affected, and will foon change from an inflamed, to a gangrenous state.

What I have here advanced, may undoubtedly appear very fingular. It is true we have no accounts, in any author which I have met with, of an inflammation of the inteftines

tines and omentum being the general caufe of fevers after delivery, and arifing chiefly from the preffure of the gravid uterus. But there are fome paffages, in feveral writers of no finall diffinction, that ftrongly indicate a poffibility of the omentum being greatly injured, merely by compression. CASPAR BAUHIN, treating of the omentum, fays, " That in fome women, after delivery, it remains fo collected about the middle of the belly, as frequently to excite confiderable pains '." And the ingenious RUYSCH had often been furprifed with hard oblong tumours, remaining in the abdomen after childbirth, for years together, with little or no pain, though generally with fome inconvenience or other, till he difcovered the true caufe by diffection. For he then found, in one of these cases, the omentum very much thickened, elongated, and degenerated into a fat flefhy fcirrhous fubftance, adhering above to the bottom of the ftomach, and below to the fundus uteri 2." Baron van SWIETEN endeavours to account for fuch inftances, as the first above-mentioned, by fuppofing the * Theat. Anatom. lib. i. cap. xii. pag. 44.

2 Obferv. Anatom. chirurg. Cent. obfervat. Ixiii. pag. 59. omentum

omentum to be rolled up into the abdomen, by the rifing uterus, and there, by the preffure of it, or by fome other caufe, to become exficcated, and to have its lamella concreted, in fuch a manner, as to hinder it afterwards from falling down, and regaining its proper fituation. His words are, " Videtur autem quandoque omentum ab utero assurgente convolvi, & complicari: si jam, vel ab uteri compressione, vel ab alia quacumque causa, siccescat omentum, concretio lamellarum omenti metuenda erit, nec depleto per partum utero poterit evolvi, ut pristinum locum occupet "." But might not fuch changes be rather attributed to a preceding inflammation of the omentum, caufed by the preffure of the uterus during gravidity? The celebrated MORGAGNI, in his late excellent work, feems to be of this opinion, and quotes thefe very two instances: "During pregnancy, fays he, the omentum, being compreffed by the uterus and the other viscera, and for that reason sometimes inflamed, may be formed into an oblong and almost feirrhous tumour, which remains in fome after delivery; as has even

* Comment, in Boerh. Aph. tom. iv. pag. 460.

been

been observed by me; and affects them sometimes with pain, but always with some inconvenience or other, as RUYSCH has taught us, and, before him, BAUHIN had hinted ¹." These observations therefore (to which I did not attend till I had committed my thoughts on this subject to paper) help to confirm me in my opinion; namely, That the immediate cause of the puerperal fever, is an inflammation of the intestines and omentum; and that the chief predisposing cause, is the preffure of the gravid uterus.

Another great misfortune attending gravidity is, that the whole abdominal vifcera, being ftraitened for want of room, will prefs ftrongly against the diaphragm, and *aorta defcendens*, by which means the lungs cannot be fufficiently expanded, a leffer quantity of blood will be carried into the inferior parts of the body, and a greater quantity retained in the fuperior, that is, from the midriff upwards. This over-flow of blood will croud in upon the heart, which will propel it directly into the *aorta*, in order to be carried into the extreme parts of the body. But the

• De Sed. et Cauf. Morb. tom. ii. ep. xlviii. § 46. X circulation

circulation being interrupted, in the inferior part of that great trunk, prevents its paffing readily to the lower extremities, therefore a larger quantity must necessarily pass into the aorta ascendens, and quickly return again into the lungs from whence it came. By thefe means, the circulation will be confined, as it were, to a leffer circuit; the capillary veffels of the lungs will be continually over-diftended with blood; the circulation in them greatly impeded; and that organ always prepared to receive an inflammatory or putrescent diathefis, upon any supervening caufes, which may tend to bring on fuch a difposition. The violent circulation, and heat, produced by the labour-pains, together with the fever, caufed by the inflammation of the inteftines and omentum, will, I imagine, very frequently be fully fufficient to effect this. Hence, probably, comes that eafy transition which this diforder feems to make upon the lungs! The difficulty of breathing, and the cough; the palpitation of the heart, and the rednefs of the face after exercife, fo common to pregnant women, fupport the former part of our argument; and the peripneumonic fymptoms, fo often accompanying the

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PUERPERAL FEVER. 163 the puerperal fever, fufficiently countenance the latter.

From what has been faid we may conclude, that the degrees of this difeafe may be various, from the flighteft to the most violent, according to the ftate of the bowels and omentum, at the time of the attack. If they are very flightly affected, the difeafe, by a gentle treatment, may go off in a very little time. If more than flightly affected, then it will require a longer fpace, and more efficacious methods. If still more affected, the danger will rife in proportion ; and fo on, till at length it may arrive at the most violent degree, especially when complicated with an inflammation of the lungs, and be in danger of proving fatal in a very fhort time! This is not mere furmife ; for, I think 1 dare venture to affirm, from my own experience, that there are all these states, and degrees, of the puerperal fever.

And hence alfo we may be able to give fome reafon, why this difeafe is the moft eafy, and the moft difficult to cure: Why its flighteft degree is only a finall remove from the ftate in which all women are, after childbirth; and why its moft violent de X 2 gree
gree is only a little remove from death: Why all lying-in women have been, and ever will be, fubject to this difeafe; becaufe the caufes that produce it are common to pregnant women, at all times, and in all climates: Why the uterus is not, according to the generally received opinion, the chief part injured; and why, on diffection, it was even found in a found state * ; Why neither a fuppression of the lochia, nor of the milk, is the caufe of this diforder; but moftly fymptomatical: As alfo why the puerperal fever is not an infectious difease, any more than the iliac passion, a pleurify, a nephritis, or an inflammation in any other part of the body: Why it may in general be eafily cured, if taken at the beginning; and why a neglect of it must often prove fatal : Why all testaceous powders, and aftringents of every kind, given at the beginning, must frequently prove deftructive; and why a compression by bandage upon the abdomen, in this malady,

* Instances, of this kind, are preferved in the anatomical MUSEUM, of that accurate and ingenious Anatomist Mr. HENRY WATSON of Rathbone-Place, Soho; whose valuable Collection is always open for the general improvement of medical science.

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or even after any delivery, is hurtful: Why miliary, and other febrile eruptions, are not the neceffary confequence of this diforder, but merely accidental *. From what has been propofed we may likewife learn, why clysters, and cathartics, are fo effectual in the cure of this diftemper, and why all other methods fhould prove unfuccefsful, without them; why bleeding, therefore, may be only looked upon as a fecondary help, though it fhould always be the first in point of time: Why in all fevers, fucceeding a state of pregnancy, an evacuation by the inteffinal canal is the principal remedy; And laftly, why a thorough acquaintance with the nature, caufe, and cure, of the puerperal fever, is a certain key to the knowledge, and treatment, of all fevers happening after delivery; whether under the name of milk-fever, or any other.

Having pointed out the noxious effects, of the primary and grand predifpofing caufe of this difease, the preffure of the gravid uterus,

* On this head confult the judicious writings of the celebrated Professor ANTONIUS DE HAEN, in his Ratio Medendi. 110 1.1.1.1.1.1.1

I will

I will proceed to enumerate fome other caufes which have the fame evil tendency. Thefe happen either before, or after delivery. 'The principal caufes, after delivery, which may be termed occafional, are too free an ufe of cordials and fpices; an over-heated air; an unhealthy state of the atmosphere; uneafinefs of mind; a bad habit of body; an obstructed perfpiration; but especially the neglect of keeping the belly gently open foon after childbirth : and in a word, every poffible accident which is capable of increasing the circulation of the blood. For the inteftines and omentum, being prepared as it were, by the preceding uterine compression, to receive any febrile commotion raifed in the blood, will be ever ready to catch the flame, let the exciting caufes be whatfoever they will: I only particularize the above as the most common, and the most prevalent.

And as the puerperal fever hath a ftrong tendency, to run quickly into a state of putrefaction ; all caufes, during pregnancy, which contribute to bring on a corruption of the blood and juices, will greatly conduce to this difeafe. Hence breathing a moift, or impure air ; want of cleanlinefs ; indolence ; vexation; intemperance

intemperance of every kind; great coffivenefs; hard labour, or violent exercife; highfeafoned meats; too much animal food; are all very powerful predifpofing caufes. Pregnant women, therefore, fhould be very careful, to avoid all thefe things as much as poffible. Their diet fhould be plain, and fimple; with a due mixture of animal and vegetable fubstances. They should eat plentifully of fruit, and drink mild, cooling, and acefcent liquors. If this fort of diet be not fufficient to keep the body gently open, as coffiveness is particularly to be avoided, they should take, now and then, a little cream of tartar, lenitive electuary, or magnefia. Their exercife should be regular, but always moderate; they should carefully guard against violent paffions, and all anxious cares : and to avoid the bad effects of indolence, let them employ themfelves in fuch domeftic occupations as amuse the mind, without fatiguing the body.

I will now endeavour to account for fome of the morbid appearances, which I obferved in the diffection of those who died of this fever. The depraved liquors, found in the cavity of the *abdomen* and *pelvis*, fprang, in all

all probability, from that volatile lymph, which is continually perfpiring through every pore of the abdominal viscera, and peritonæum; and from the difeafed parts of the inteffines and omentum. The quantity of pus, which was found mixed with these vitiated fluids ", was probably the effects of the inflammation on the furface of the last-mentioned viscera: Just in the fame manner as we fee pus frequently generated on the external parts of the body, in fome inflammations of the eyes for example, without any excoriation, or loss of fubstance. This opinion feems to be confirmed by the fixth diffection, where a quantity of pus was feen actually adhering to the integuments which lay over the recently inflamed furface of the inteffines 2. This purulent discharge, as fast as it collected, would, in general, be washed away by the perfpirable fluids fleaming through the pores of the abdominal cavity, as well as by the general mass of liquors collected in the pelvis and abdomen, and would be found mixed therewith.

Pag. 40. 43. 48. 56. 2 Pag. 53. The

The great inflation of the ftomach and inteffines ', might be owing partly to a paralytic weakness of their coats, from long preffure, fo as to render them eafily diftended; but particularly to the air continually generating from the putrefaction of the excrementitious humours, caufing irritation and fpafmodic conftrictions in various parts of the inteffinal canal. As a proof of this laft we find, where a profuse discharge by stool hath come on from the beginning, and continued through the whole courfe of the difeafe, fo as to carry off this putrefcent matter as fast as it was collected, that the intestines were not fo diftended with flatus; as happened in the fubjects of the first, and fourth diffection.

The flight adhesion of the intestines to each other², might be principally caused by the inflammation of their coats, affisted by preffure: The inflamed *omentum* when it is not rumpled up, but lies smoothly over the furface of the intestinal canal, may likewise fometimes tend to bring about this effect. In the subject of the fourth diffection, where

¹ Pag. 41. 43. 48. 53. ² Pag. 38. 41. 48.

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the omentum covered the whole furface of the inteffines, it adhered clofely not only to the vifcera below, but to the peritonæum above ¹. The greater or lefs degree of this adhefion may alfo depend pretty much upon the greater or lefs quantity of fluid collected in the abdomen; which by its interposition might hinder, or diffolve, fuch continuity. The drynefs of the parts, in the fourth fubject of diffection, was, as I apprehend, the chief caufe of that general adhefion of the omentum to the whole compass of the abdomen which lay within its contact.

There is one circumftance, appearing on diffection, which at first feems almost unaccountable. I mean, how it comes to pass that the intestines and omentum, in the space of three or four days from the time of complaining, should receive fo much injury! The subject of the third diffection complained only on the third day after delivery, and she died on the fixth, with the intestines greatly injured, and the omentum in a gangrenous state. It is difficult to imagine how the malady, could make such a progress in

* Page. 45.

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fo fhort a time. Yet this circumstance, ftrange as it is, ftrongly corroborates the opinion advanced above; namely, that the inteftines and omentum become fo chafed and irritated, by the compression and friction, of the gravid uterus, during labour, as to be almost in a state of inflammation, in most women, at the time of delivery: and that very flender fupervening caufes, fuch as have been recited, will frequently reduce it to that state, and thus bring on the puerperal fever. Nay, I dare almost venture to go further and fay, that it is not impossible, but very probable, that the omentum may fometimes be in a ftate of inflammation even before delivery, and the patient not be fenfible of it. Suppose the uterus, for instance, fhould make a long continued preffure upon one particular fpot, at the lower part of the omentum, and all the reft be pretty free. Might not an inflammation take place, fome days preceding delivery, upon that particular part only, and be fome time before it fpread fo as to affect the whole omentum? Now, in fuch a cafe, I prefume, that the patient would not be immediately fenfible of any pain, becaufe of the infenfibility of the Y 2 omentum;

omentum; that is, not till the inflammation had fpread itfelf pretty nearly all over that organ, and reached the upper part, where the nerves become larger, and where it is connected with the other viscera. And if fome flight pains should come on, either before, or immediately after delivery, the patient might confound them with labour, or after-pains, and pay no regard to them till the inflammation became general. In this cafe, as the difeafe advanced, a fuppuration, or gangrene, or both, would feize first upon the spot primarily affected, and from thence gradually advance upwards. The inteffines also, though actually inflamed, are not always attended with that degree of pain, fever, and other violent fymptoms, which are commonly expected, I have known a puerperal patient fit up in bed, eat heartily, and complain of very little pain in the abdomen, unlefs upon preffing it, yet the difease in a few days hath proved mortal, and I have found the inteftines greatly inflamed. By these means the difease may perhaps, now and then, make great progrefs before delivery, and either not be felt at all, or be mistaken for other pains. Besides, the

the female fex, being fubject, from their peculiar make and nature, to a variety of changes and pains about the region of the *abdomen*, are more inured, as it were, to pain in general, and bear it much better, upon most occasions, than men. And this also may be one great reason why they often neglect the first fymptoms of the puerperal fever, thinking, like many of their other complaints, they will cease of themfelves.

From the infenfibility therefore of the omentum, from the difease sometimes beginning at its lower part, and from the primary degrees of pain in the inteftinal canal being mistaken for others of a different nature, I account for the feeming inconfiftencies with refpect to the time of complaining, and the great havock which is found to be made upon the inteffines and omentum, fo foon after the difease puts on its true appearance. Upon the fame principles we may account for the diftemper coming on, either before, or immediately after delivery; for the mortification which had particularly feized the lower part of the omentum, in the fubjects of

of the fecond, and fourth diffection ': as alfo for the fudden and imminent danger which, in fome cafes, muft attend it. And laftly, from what has been faid, the curious reader may likewife explain many other particulars, which will naturally occur to him in the perufal of the defcription, prognoftics, diffections, and cure of this difeafe; but which would be too tedious to recount here. It is fufficient, for the prefent purpofe, to have drawn the great out-lines which lead to all the reft.

To conclude: we have feen in the preceding chapter that it is the general opinion of authors, from the time of HIPPOCRATES to this day, That this difeafe principally arifes either from a fuppreffion of the *lochia*; an inflammation of the *uterus*; a retention of the milk; or from fome other complaint peculiar to the *uterus*. My differing fo widely in opinion, therefore, from the eftablished fentiment of fo many ages, may require fome apology. All that I can offer in my defence is, that I have drawn my notion, of the caufe

' Pag. 49. 45-

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of this difeafe, from a courfe of reafoning fupported by diffections; and have grounded my theory, upon a careful examination of all its fymptoms. Appealing to the candour of the reader, I humbly fubmit the whole to ftand, or fall, by the teft of future obfervations; and left I fhould have erred, I will now make the fame excufe, and in the fame words, as I have upon another occafion ¹. Nunc propofitum meum perfeci, et per totum opus, intrare tentavi in abdita quafi et penetralia morbi, quo facilius ejus latebras et receffus patefacerem, omnibulque exponerem; quod fi recte peregi, mibi abunde eft; fin minus, bumanum eft errare.

* In Libello de Scorbuto, pag 91.

FINIS.

ERRATA.

VAT TAHUY

In Preface, Page vi. Line 1, for ffects—read effects. In Page after Contents, for Vere, feire—read Vere feire, In Treatife, Page 8, Line 2, for noways,—read in no wife. Page 56, Line 6, dele a pretty large quantity of thin bloody liquor was found in each cavity of the thorax. Page 69, Line 12, for The London—read The City of London. Page 72, Line 7, for tr ment—read treatment.

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