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Contributors

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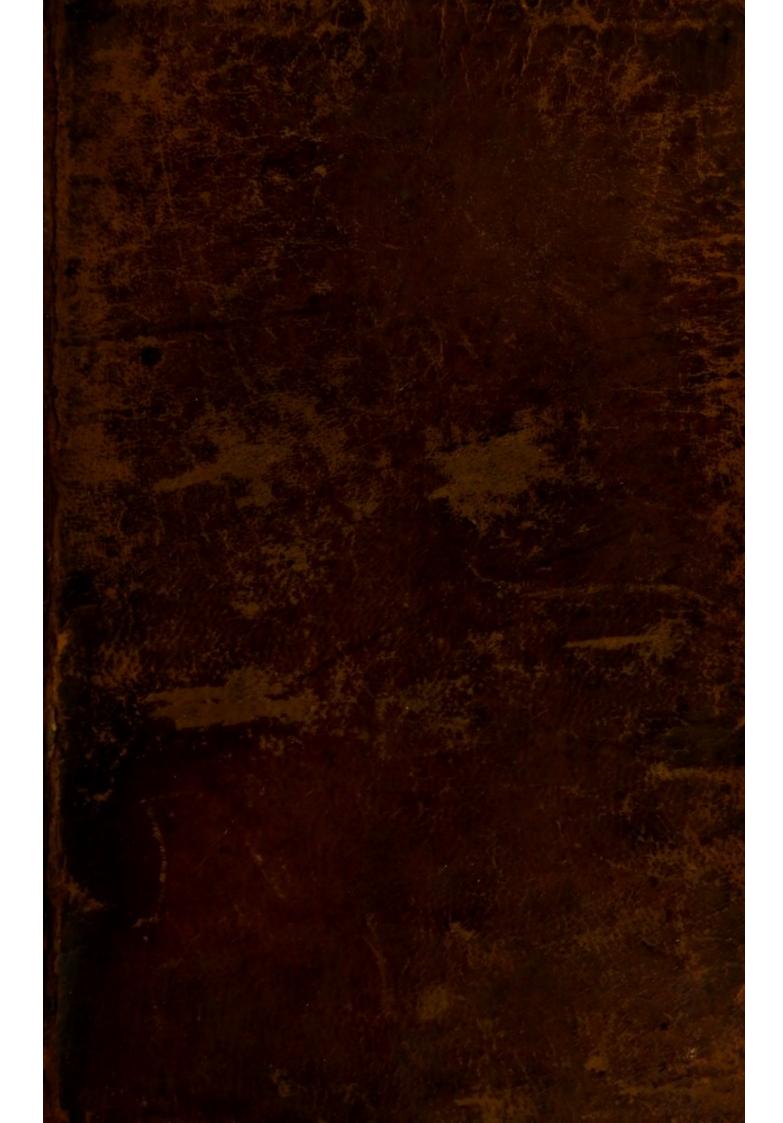
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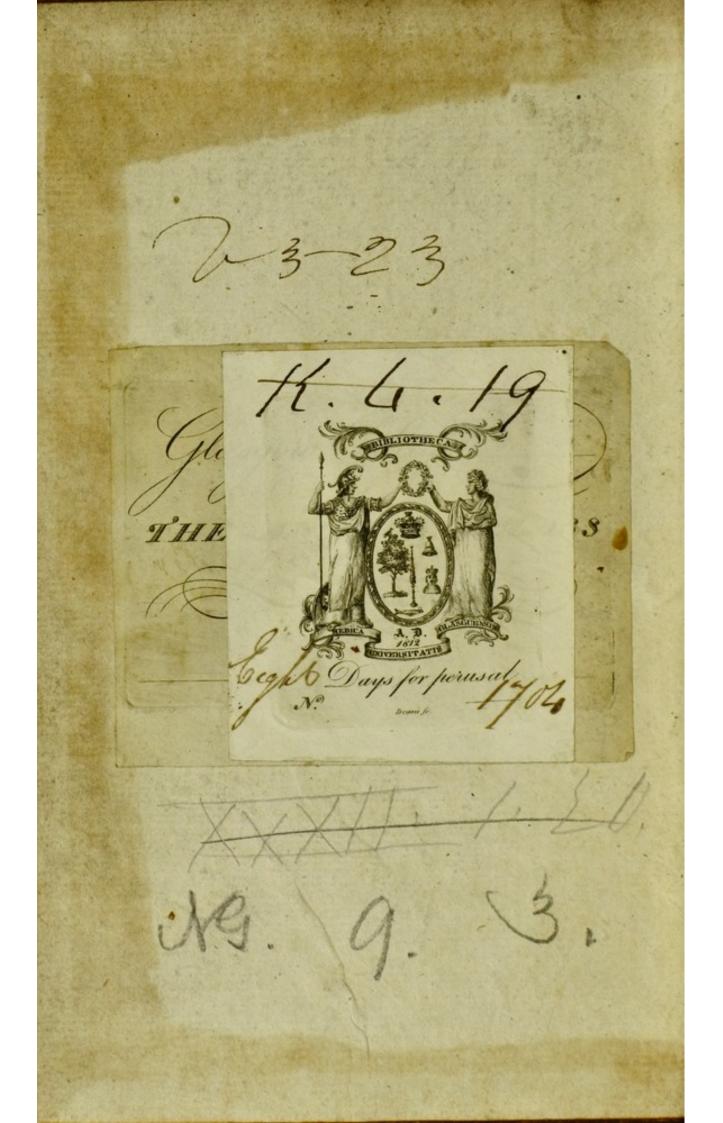
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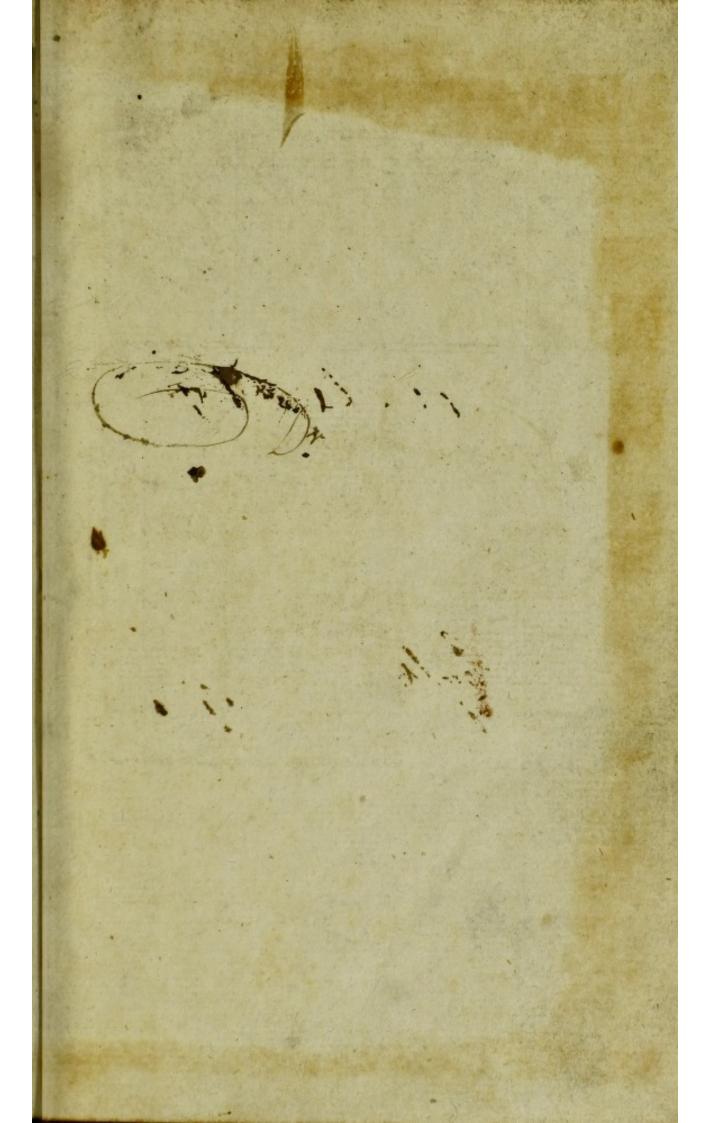
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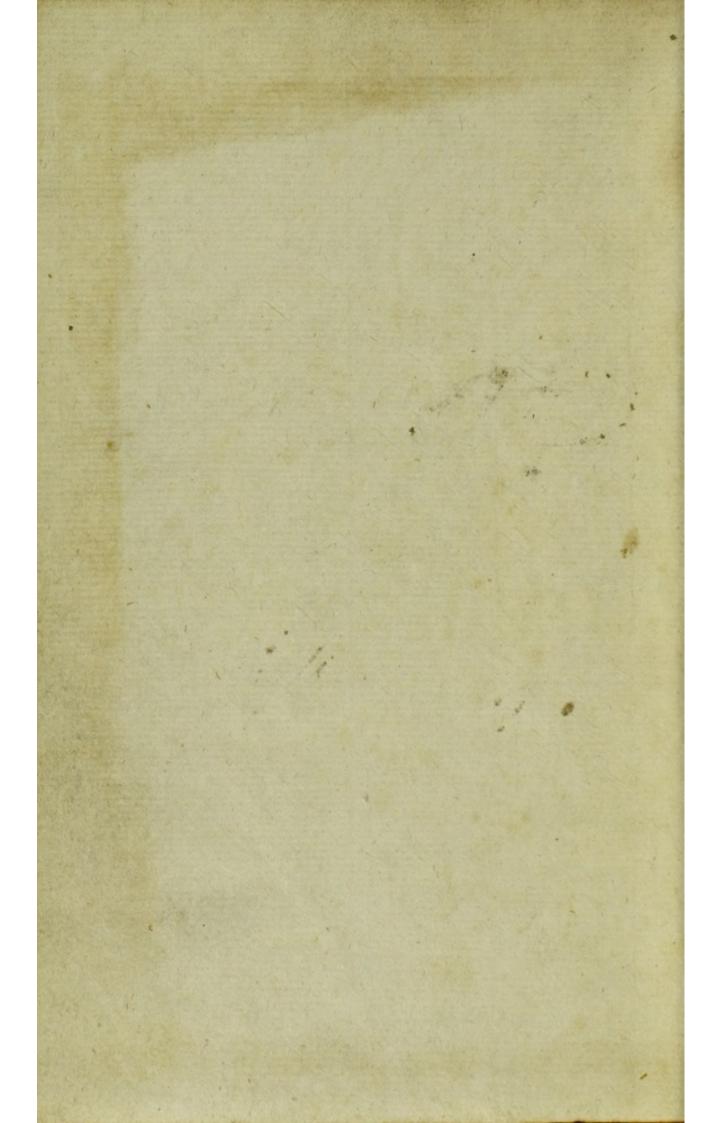


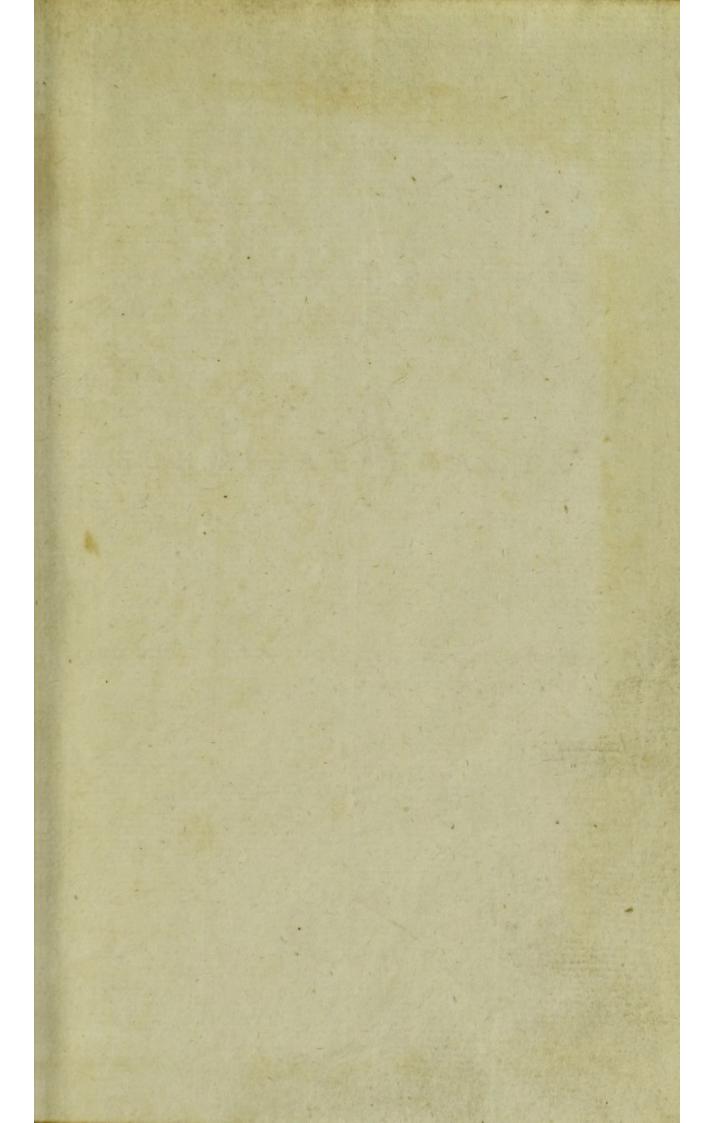
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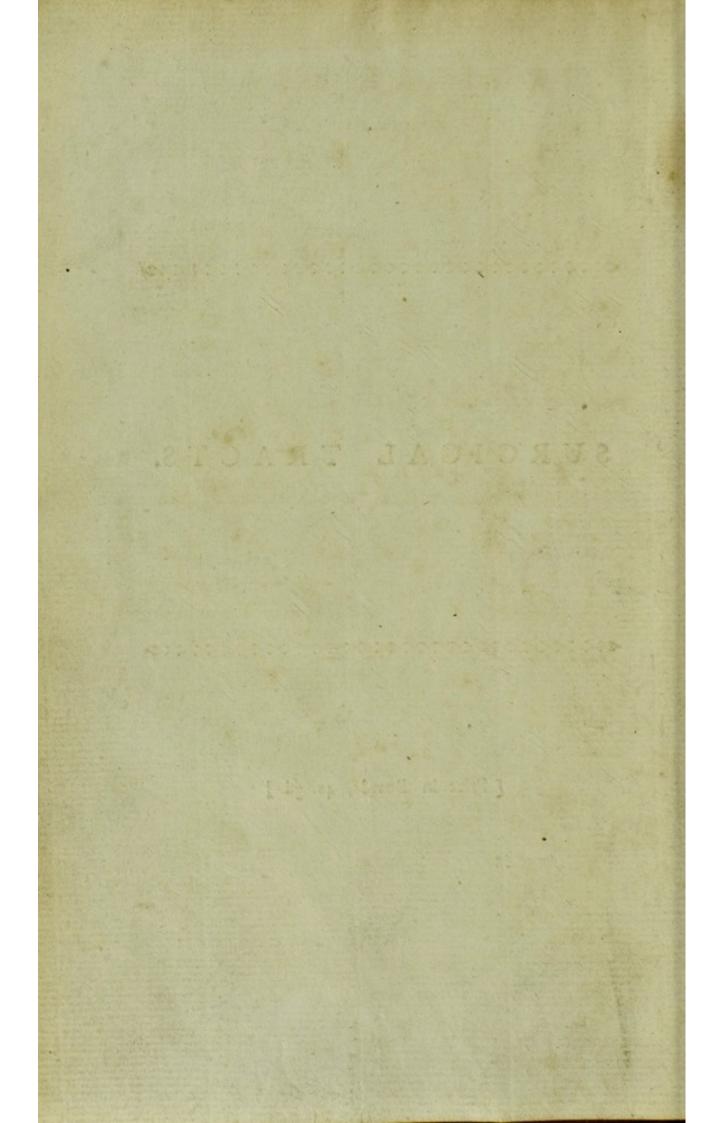






SURGICAL TRACTS.

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SURGICAL TRACTS,

A TREATISE

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ULCERS of the LEGS;

IN WHICH

Former METHODS of TREATMENT are candidly examined, and compared

WITH

ONE more RATIONAL and SAFE; Effected without REST and CONFINEMENT. TOGETHER WITH Hints on a Successful Method of treating fome

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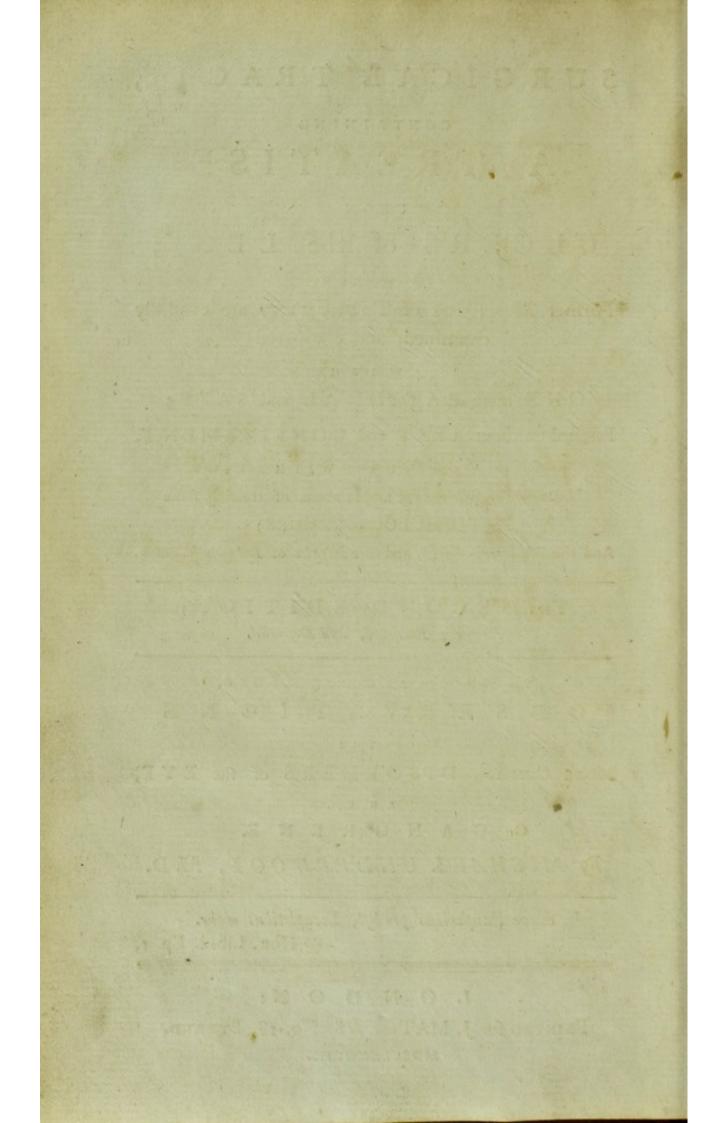
MORE COMMON DISORDERS of the EYE,

ON THE

By MICHAEL UNDERWOOD, M.D.

Æque Pauperibus prodest, Locupletibus æque. Hor. Lib. i. Ep. 1.

L O N D O N: PRINTED for J. MATHEWS, No. 18 STRAND. MDCCLXXXVIII.



TO THE

MASTER, WARDENS,

AND

COURT of ASSISTANTS,

OF THE WORSHIPFUL

COMPANY of SURGEONS.

GENTLEMEN,

THAT great Ornament of our Profession, the late Sir Cæsar Hawkins, Bart. having honoured a former edition of this little work with his approbation, will, I hope, apologize for the liberty I now take in dedicating this revifed edition of it to you, and claiming your Protection.

The Public has long ago had opportunity of deciding on the merits of fuch parts of it as then appeared; and though their judgment has not been unanimous, (and in what instance has it ever been fo?) the Author has had abundant Evidence from his own Experience, and from the testimony of Others, of his labors having been productive of much Good. Nor has the practice he enforced, as far as he has been able to learn, produced the evils fome people had apprehended; while the ftrong manner in which another edition has been called for, is a prefumptive indication of the favorable opinion of Others.

His

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His aim and expectation, from the firft, was public Good; and he has certainly lefs temptation than ever to inferior motives, in the prefent publication. His defire therefore ftill is, that the work may ftand upon its own proper merits; and he is now happy in fubmitting it to a Court every way adequate to forming an impartial and valid Judgment; and deciding upon its future Reputation.

However devoted of later years to another branch of Medicine, the Author is ftill proud of having received his firft Education under the Beft Surgeon in the World, and of fubmitting to the Profession, the result of some former experience in that line of practice. It were needless, therefore, to fay what Claim You, Gentlemen, have

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(viii)

have to his labors, should they appear to have any merit, and the Honour you will do him in accepting this Token of Respect, from

GENTLEMEN,

Your most obedient,

humble Servant,

MICHAEL UNDERWOOD.

Great Marlborough-Street, October 10th, 1787.

PRE-

PREFACE.

No man publishes an opinion to the world, even on the most trivial occasion, without some view to himfelf, or others, or to both; and custom has established an almost universal law, by which an author is bound either to discover his real motives, or to devise some plausible, and handsome excuse for his own boldness. The writer of the following sheets, without affecting any uncommon share of philanthropy, would not willingly have risked the favourable opinion of his friends, had he not been perfuaded, that the practice he has ventured to recommend is founded on the most rational principles, and will not fail to be of some fervice to the distressed. He is

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encouraged to fay thus much, at leaft, having feen very confiderable advantages arifing from a method of treatment, materially different from that at prefent in fashion. And if any improvement can be fuggested, in a branch of furgery confessedly imperfect, (for who will deny that fore legs are difficult of a lasting cure?) no great apology can be thought necessed to the world any hints on the subject that may be useful.

It may add fome weight to this little performance, to fay, that it is the refult of more than twenty years attention and experience; the writer having, for a long time, invited the poor to his houfe, and even common beggars, the most intractable of all patients, and fuch as, either for want of proper food, and clothing, or from their diffolute lives, are the most unlikely of all to be cured. He affects no other merit than this attention to fo limited, and in general fo much neglected, a branch of his profession ; to which he was led, fo long ago, by an inftance that fell in his way, of a cure performed with great eafe, and without confinement, by a very ignorant empiric, after two eminent furgeons had failed in the attempt. The knowledge of this at an early period in life, when youth and inexperience prompt

prompt to undertake any thing, having convinced him of the poffibility of fuch cures, and led him to the knowledge of many, induced him to turn his thoughts to a fubject, which he has never fince loft fight of. In the mean time, his education under the best of masters, together with his long refidence in one of the largest, and best conducted hospitals in this metropolis, as well as his attendance in those of Paris, gave him fufficient opportunities of feeing, that for fome caufe or other, the knowledge of completely healing old ulcers in the legs, has ever been very deficient and uncertain. The fubject, though of fo great importance to the fuffering individual, has, perhaps, not appeared of fufficient confequence to eminent furgeons, whofe employment has ufually been both of a more profitable, and agreeable kind. It is hoped, gentlemen of this clafs, who deferve and poffers the highest degree of public efteem and confidence, will not think this an injurious fuspicion, especially as the mention of it is principally intended, to fave the writer the mortification of having his first attempt thought inferior to the dignity of a first rate practitioner. Besides, any attempt must be laudable to refcue this branch from the hands of quacks and ignorant pretenders, who who it must be confessed, have sometimes got credit in these cases, where men of science and a regular education have failed. And here it may be proper, as the former class of practitioners needs no increasing, to add, that the precise quantities and forms of some of the applications hereaster mentioned, are not specified, but left to the judgment of the furgeon; who will find no difficulty in proportioning every active and powerful ingredient, to the nature and variety of each particular case, the writer not having the least design of concealing any thing from him.

· The form, indeed, in which these observations are presented, requires more excuses than the author knows how to make; but he trufts that the plainnefs, or rather homelinefs of their drefs, will not fo far prejudice them in the eyes of liberal men, as to prevent their being examined with candor, and made use of in practice, if they are found to be at all just and rational. A want of regularity and elegance in composition, may with truth in this cafe, be imputed to want both of experience, and leifure-to ftudy the correctness and imbellishments of language. He has, indeed, no pretenfions as a writer-but though truth may be adorned by a florid ftyle, or enforced by elegance of argument, the greateft deficiency

deficiency in these ornaments cannot invalidate facts, nor justify an ill-natured criticism, on that which made no part of the author's defign.

As to the mode in which these observations are prefented, the present was judged the most likely to answer any good end, for though what the author has to fay in point of directions, might have been expressed in a smaller compass, or have appeared in some periodical publication, he could not, in such a channel, so fully support the principles he has laid down, nor justify his deviation from established authorities. He knew, moreover, that an attempt had been made in that way, by a gentleman of acknowledged abilities,* which did not seem to gain the attention of the public.

With regard to the few hints on fcrophulous affections, and other matters flightly touched upon, they are likewife the refult of fome experience : how far they are worthy the attention of the public, is cheerfully fubmitted to their confideration.

The author, however, begs leave to urge again his good intentions, and to express his

* Mr. ELSE, Med. Obferw. and Inquiries, Vol. iv.

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hopes,

hopes, that the fuccess of his plan, may in other hands, be equal to his own; and then he shall expect the fatisfaction of contributing very greatly to lessen the difficulties and diftress of many afflicted fellow-creatures, to preferve some of them from leading miserable lives, and now and then prevent that most dreadful remedy for bad ulcers, the loss of a limb.

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THIS fecond edition appears before the Public with fewer emendations, in point of ftyle and manner, than might have been expected. But the author having been called to turn his thoughts fomewhat another way, and to other publications, really has not found time fince a fecond edition has been much inquired after, to pay fufficient attention to it. Indeed, without an entire change of plan, and new arrangement of matters, no adequate alterations, in thefe refpects, could be effected; although he hopes there are others of much more importance to the ftudent. Befides, he is ftill of opinion,

opinion, that, on account of the doctrine being fo opposite to former practice, and fome prejudices to it yet remaining, an attempt to abridge the work very much, by fimply objecting to the lenient plan, and merely ftating his own, were not the beft method of combating inveterate prejudices, or likely to establish a new mode of practice, as yet unfupported by great Names. The like reafon, it is hoped, may apologize for continuing the long references and quotations from the ancients, which might otherwife have been omitted. He has, however, made a few corrections; has abridged and transposed feveral parts, and made confiderable addition to others, in the tract upon ulcers; as well as attended to every objection that has come to his knowledge. The latter efpecially, he thought incumbent upon him, as it is probable he may not take up his pen again on chirurgical fubjects; and he hopes he has executed it with modefty, though with a firmnefs becoming the defence of a mode of practice, which he conceives to be juftified as well by theory as experience.

It was in defign, indeed, to have made fome farther Diffinctions of ulcers, in order to affift young practitioners who may take up the plan; but he has not been able to do it to his mind.

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Some

Some progrefs, indeed, might eafily have been made, but too many difficulties occurred to admit of a complete arrangement, with fufficient clearnefs for any good, practical ufe. Such fpecific diffinction may, however, be made, and the careful observer, determined to pursue and profit by these hints, will not long be at a lofs for it; but it will be beft attained by experience. For, befides the peculiar fymptoms attendant upon different ulcers, another diferimination is often neceffary, which is fo much an object of fense, that it can be conveyed but very imperfectly in words. For apart from the obscurity arising from the fluctuation of language, there are certain things of which words can convey no adequate ideas, however clear those of the writer may be. Architecture (if fuch an allufion might be allowed of here) furnishes an ample proof of this : for what words could have given any accurate conception of ancient buildings, (of which no drawings were preferved) had not their Ruins remained? But from thefe, conveyed by the Pencil's fifterart, ancient Greece and Rome are every where prefented to view, and modern buildings rife in Afiatic or Gothic magnificence.

From the difficulties neceffarily attending fuch an attempt in the prefent inftance, it is hoped, hoped, the reader, defirous only of practical information, will be still fatisfied with the two former general distinctions of ulcers. Daily experience, it has been faid, will render familiar to him others of less importance, will enable him to make a practical arrangement, and from the directions laid down, to felect the treatment best adapted to every class he may make for himself.

The author would think himfelf happy if only the above objections might be made to the work, but he has to lament, that there are yet individuals of high rank in the profession, who fatisfy themfelves with giving their teftimony altogether against a plan of which they have not been pleafed to make a trial, either in their private or hospital practice; though it can be proved, that where their plan perfevered in for feveral months, has done nothing, a cure hath been eafily and fafely effected upon, this. It has, indeed, met with fufficient fupport elfewhere, and the author received both from abroad, and from different parts of this kingdom, the repeated thanks of many practitioners with affurance of its great fuccefs in their hands.

It is with concern, however, he has to obferve, that it is not likely to prove fo beneficial in

in hospitals as to private patients; it being impoffible furgeons fhould vifit the former every day, much lefs drefs every bad ulcer with their own hands. Such fores must therefore be committed to pupils, many of whom come to London, and indeed too many leave it, poffeffed of fo little knowledge or attention, that whenever any matter must be fubmitted to their diferetion and care, (of which the application of tight bandage is a most important one) it is well if patients do not conftantly fuffer by it. Not that the plan, indeed, is incapable of very extensive usefulnefs, even in hospitals and difpenfaries, if furgeons would do their part in fuperintending and directing the pupils, ordering proper rollers, and advising patients to walk, and efpecially, would they become lefs timid in their use of the precipitate. As an instance, the author has Mr. Pearson's permission to fay, that fince the winter of 1783, fome hundred patients have been cured upon this plan, under his direction, at the Lock Hofpital and Carey-Street Difpenfary; many of whofe ulcers were very large, fome extending nearly round the leg, and of many years ftanding.

But howfoever the peculiar advantages of this plan may, in any inftance, be leffened, it is fubmitted, with increafed confidence, to the attenattention of practitioners of every rank, which the writer feels himfelf juftified in doing, by the beft of motives—from the benefit it has afforded to fo many poor fufferers fince the former edition appeared.

Agreeably to thefe affertions, he could refer to various other testimonies he has received in the course of the last two years. Out of these, however, he has ventured to felect a letter, (not more flattering than many others) which howfoever regarded in respect to himself, he has thought it a justice to the Public to fubjoin to this preface. It were unneceffary, it is hoped, to fay, that it is prefented in the writer's own words, as well as with his confent : and as its compliments would be very lightly effeemed by the author of this work, should their effects only terminate in himfelf, fo fhall be any cenfure to which the publication of them may expose him, should other practitioners be excited to make a like fair trial of a plan, which he is perfuaded will exceed their warmeft expectations, and ultimately benefit mankind.



DEAR

DEAR SIR,

MY time has of late been fo much engroffed by bufinefs, that I have not till now had an opportunity of anfwering the laft letter you honoured me with—You wifh to know if the fame fuccefs attends me in purfuing your plan as that I had the pleafure of communicating to you, at the commencement of our correfpondence. I cannot fay it is the *fame*, Sir—it fo much exceeds my moft fanguine expectation. I have really often been aftonifhed at the *Eafe* with which I cure old and large Ulcers of the Legs, by a ftrict adherence to the rules you have laid down, after they have withftood every other mode I had been previoufly acquainted with.

It was this continual difappointment that first led me, though prejudiced, a priori, against the plan recommended in your Treatife, to give a fair trial to it; and accordingly I took it up early in the fummer of 1783.—I have perfevered in that plan ever fince, and it now conflitutes almost the whole of a very extensive bufiness. And I must declare in justice to you, that in the numbers I have cured, I have never ob-

observed any inconvenience following the fuppreffion of a discharge, that could be in the least attributed to the running being ftopped-And having been myfelf equally fearful with other practitioners of the bad effects arising from the cure of old ulcers, I have been particularly attentive to this circumstance, till affured by long experience, that upon your plan, my fears had been groundlefs; while the Eafe with which I have cured ulcerated legs of every kind, and of every period of duration, from one to thirty years, in more than two hundred inftances; and the few relapses which have fucceeded, convince me, (and will, I doubt not, every other practitioner who will give your plan a fair trial) that it is the only one on which the cure of Ulcers of the Legs ought to be attempted.

Wishing you may long enjoy, &c. &c.

I fubfcribe myfelf, with the most refpectful esteem,

SIR,

Your obedient,

humble Servant,

T. SMYTH.

CHERRY ORTON, near Peterborough, Jan. 11th, 1787.

The

The Reader is requested to excuse and correct the following

ERRATA.

INTRODUCTION:

Page 4, Line 7, Note; for ichorum, read ichorem.

TREATISE upon ULCERS.

Page 60, Line 4, Note, for Foot, read Sore.

Page 62, Line 9, for on, read no.

Page 74, Line 6, dele the.

Page 83, Line 17, for the, read their:

Page 85, Line 6, from the Bottom, add and to the beginning of the Line.

Page 115, Line 5, Note, for except, read effect. Page 119, Note, for 37, 38, read 31, 32.

Page 124, Line 15, for bis, read the.

On SCROPHULA.

Page 24; Line 5, for it, read they.

On DISORDERS of the EYE.

Page 37, Line 11, Note, for fat read fet. Page 39, Line 24, for increasing, read increased.

On the MILK-ABSCESS.

Page 52, Line 21, dele of.

On GANGRENE.

Page 6S, Line 14, for Specifics, read Specifics.

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INTRO-

INTRODUCTION.

NTRODUCTIO

HERE are fome difeafes which derive their importance, not fo much from their fatal tendency, as from the pain and uneafinefs they occafion. Stationary ulcers in the legs, may be juftly ranked under this clafs. In general, we do not efteem their cure effential to life; but he who is the unhappy fubject of them can beft eftimate, how much the comforts and enjoyment of it are impaired by them.

A variety of obfervations might be made on the feveral peculiarities of these ulcers; but it is, by no means, the design of this work to intrude upon the reader with theory on the nature of the complaint, any farther than it may be necessfary, in order to establish the means of a safe, and lasting cure.

In this view, it will be proper to drop a few words upon ulcers in general, and on fome material differences between those now to be confidered, and all

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other fores; between recent wounds of the legs, occafioned by fome accident, and those made on any other part of the body: fome reason there must be, for the additional trouble in healing the former, as well as the greater difficulty with which they are afterwards preferved in that state. This is effentially necessary if we would establish a rational practice, and fo far as this end is kept in view, it is hoped, an attempt will not be accounted superfluous.

It fearcely needs to be obferved, that ulcers may be occafioned either by every external accident abrading the fkin,* or bruifing the parts underneath, in a certain habit of body, predifpoled to ulceration; or by any internal caufe, * exciting fuch inflammation in a part as fhall incline it to iuppurate, though no external injury has been received : fuch are fevers of different kinds. To thefe fhould be added neglect, or mifmanagement, when an abfeefs is formed, by which a fimple wound is converted into an ulcer, or continual fore of the part.

These are briefly the causes of ulcers in general, and where no specific contagion prevails in the habit, are all that need to be confidered.

In those of the legs, indeed, we are farther led to remark the flate and circumstances of the limb, which being a depending and an extreme part of the body, may be regarded as a particular and predisposing

* Ulcus est continui folutio ab erofione facta.-GALEN.

+ Ulceris caufæ vel internæ funt, vel externæ .-- PAREY.

caufe.

TNTRODUCTION

caufe. Its being an extreme part, appears to have a much greater influence than has generally been imagined, or at least expressed by writers on this subject, and tends very much to account for the frequency of the difeafe, and to point out an indication of cure, which in practice has been entirely overlooked.

But previous to entering upon the cure, it will be proper to make fome obfervations upon ulcers in general, enlarging a little on fome peculiarities attending those on the lower extremities.

§ Authors of credit* have usually defined an ulcer to be a folution of continuity in a foft part, difcharging a purulent, or ichorous matter.+

But the process of ulceration confists in more than a fimple folution of continuity; there is a real lofs of fubftance in the ulcerated part. To obtain therefore a more correct definition, I would be underflood to mean by an ulcer, a folution of continuity in a foft part of the body, from which an ichorous, purulent, fanious, or vitilated matter is discharged; attended with a lofs of fubftance in the part. 1 d in gos , MAM however, that HOFFMAN, SHARP, and fome later

ers, delign moreover by an uleer, an old, or ill-conditioned

* HIPPOCRATES excepted, who calls any folution of continuity by that name. † WISEMAN, TURNER, BELL. " Partis mollis folutio purulenta, vel ichorofa." CULLEN.

we would (peak with precision ; for otherwild, every impolling

feens to be tome realon for this diffinction;)

" Les ulceres sont des solutions de continuité dans le parties molles, avec ecoulement de pus." Traile des Tumeurs et des Ulceres.

* SENNERTUS and HOFFMAN give nearly this definition-" Ulcus dicitur folutio continui cum imminuta magnitudine, in parte

Az

molli,

§ This character may be very applicable to ulcers in general, and be quite fufficient as a diagnofis; but many important diffinctions are to be attended to, which mufthave confiderable influence in the treatment. It will be fufficient, however, to hint at a few of them.

I. An ulcer may be fimple, arifing from external caufes merely.

II. It may be the confequence of, or be connected with a bad habit of body; or,

III. It may be owing to fome fpecific contagion. IV. The fituation also of ulcers deferves our at-

tention. They may affect the furfaces of parts, in

molli, a materia erodente ortum habens. Differunt nimirum in eo vulnus et ulcus, quod in vulnere faltem est foluta unitas, nihil vero necessario de parte amissum est; in ulcere vero semper aliquid de parte affecta imminutum et amissum est, si non plus, saltem cuticula." SENNERTUS: *lib. 5. pars 2.* "Sunt autem ulcera partium folidarum, atque mollium cum cavitate quadam minori, ichorum tenuem, salsum et acrem fundente, dissolationes et erosiones a sero extravasato, et corrupto originem ducentes." HOFF-MAN, *cap vi. § 1.*

It is evident however, that HOFFMAN, SHARP, and fome later writers, defign moreover by an ulcer, an old, or ill-conditioned abfceis; and there feems to be fome reafon for this diffinction, if we would fpeak with precifion; for otherwife, every impofthumation, when burft or opened, as well as every wound after an operation, is equally an ulcer—HOFFMAN's words are, " Differunt ulcera ab abfcetfibus, tum in hifce major, quam in illis deprehenditur cavitas, atque non tam fanies aquofa, falfa et acris, quam potius pus laudabile, bene coctum à fanguine, in partibus mufculofis ftagnante, et mora corrupto, gignitur; licet negari minime poterir, ulcera fæpe ex apoftematibus oriri, quæ in principio meri fuerunt abfceffus." § 2.

INTRODUCTION.

the manner of an eryfipelas; or partake more of the nature of a phlegmon, by being feated in the fubflances of parts.

But it will be neceffary in this place to remark other diffinctions, noticed by the beft writers.

I. An ulcer, it has been faid, may be of fuch a fpecies, that it will not admit of cure.* This, however, cannot often be the cafe, and belongs not to the prefent intention.

II. The ulcer may arife from, or be accompanied with fuch a peculiar flate of the conflictution, \uparrow that the patient may be unable to undergo fuch a difcipline, as will be abfolutely neceffary to its cure.

III. A patient's flate of health, or peculiar circumflances in life may be fuch, that the injunction of confinement and a recumbent pofture cannot be complied with.[‡]——The prefent inquiry will be more immediately directed to the treatment of ulcers occurring under thefe laft-mentioned circumflances; and as the lenient method is generally injoined with an horizontal pofition of the limb, they will both refpectively fall under confideration.

§ Ulcers troublefome in themfelves, or of long ftanding, are very often brought into a healing ftate, by mild means, and abfolute reft, where no cachectic difpofition exifts. || If the patient after this fhould

- + SHARP's Surgery. Introduct. page 29.
- 1. Ib. page 38. || Ib. page 31.

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live.

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^{*} Cancerous, &c. "Ulcera Hydropicorum vix imo ne vix curantur." HIPPOC. Lib. vi. Apb. 45.

live freely, or use much exercise, it is highly probable the fore will break out again. In such a case, it may be faid the person has been cured, but he is not reftored to society. A very natural inquiry suggests itself here, viz. Is this the only rational method of treating such ulcers?—If it can be proved, that a firict course of regimen is generally unnecessary, and that absolute rest is often not only needless, but prejudicial; if it can be demonstrated, that by a different mode of treatment, they may be as certainly, and often as speedily cured, and without danger of relapse; it becomes a subject highly deferving the attention of every practitioner.

§ It has been obferved, and long been a decided opinion, that wounds or ulcers, fituated on the lower extremities, below the knee, do not generally heal fo kindly as those on the upper parts of the body.* Various reasons have been affigned for this last mentioned fact; and as principles are more or less connected with practice, it will be very proper to glance at this subject, which will bring forward the immediate object of inquiry.

These extremities being depending parts, a stagnation of the circulating fluids has been offered by some as an explanation; whilst others have attributed it to a descent of depraved or vitiated humors. It

* It is a maxim in furgery, that abfeeffes and ulcers will have a greater or lefs tendency to heal, as they are higher or lower in the body. SHARP's Surgery. Introduct. page 17.

⁺ See WISEMAN, TURNER, SHARP.

GALEN. De Ulceribus malignantis Naturæ. " Talia enim appello, in

It is ever of the utmost confequence, to feparate facts from hypotheses. Our knowledge is actually increased by the one; we are not certain gainers by the other. Effects are obvious to every attentive obferver, but causes are often latent and dubious.

The first theory cannot be admitted; as its proximate cause is, by no means, a constant attendant on fore legs: Œdema fometimes precedes, fometimes accompanies, and often seems to be a consequence of ulcers, but is only one evidence amongst others, of cachexy.

The fecond enumerated caufe ftands merely on an hypothetical bafis. 'Till we get more diffinct ideas of what is meant by vitiated, or depraved humors, and have their exiftence demonstrated, it ought not to be admitted as the occasion of the difference in question; especially as this difference is capable of being very confiderably leffened, merely by topical applications and exercise, as will be shewn in its proper place.

§ Without prefuming abfolutely to remove the difficulty, a few hints on the fubject may not prove unworthy of attention.

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in quibus aut pars affecta tam vitiofo habitu est prædita, ut vel optimum fanguinem, qui nutritionis gratia confluit, corrumpat: aut id quod influit, adeo perversum existit, ut ettamsi pars rectè se habeat, ab ipso tamen solo erodatur." (De comp. med. lib. iv.

AMBROSE PAREY, on the cacoëthic ulcer, copies after Galen : "influentem corrumpit humorem," (fays he) and on the cachochymia-" propter influentis fanguinis, partem exedentis, pars affecta nimium humida non coalefcit." Lib. xii. cap. x.

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I. The

I. The living power of the animal exifts in greateft quantity neareft the heart. In proportion to the different diffance of parts from this centre of life, the circulation of the blood is more languid, the animal heat is at a lower temperature, and the animal functions are more liable to interruption. But the healing powers depend greatly on the general, or relative vigor of the fyftem: if therefore, the vital energy diminifhes, at a diffance from the centre, fhall we be furprifed to find, that the vis medicatrix (which owes its falutary power to the fame caufe) is diminifhed likewife?

II. In the lower extremities there is diffufed much tendinous or ligamentous membrane. This kind of fubftance, though not void of fenfibility, poffeffes a very fmall fhare of it; its blood veffels are fcarcely vifible unlefs rendered fo by difeafe, and in that ftate it acquires a high degree of irritability. The ftructure of the parts therefore, may in fome cafes, have confiderable influence in retarding the cure of ulcers. And perhaps the depending polition of the limbs, though not fufficient of itfelf, may in fome degree co-operate with other caufes in producing the evils complained of.

When an ulcer on the lower extremities, tolerably free from inflammatory fymptoms, and unconnected with cacoëthic, or fpecific affection of the fyftem, becomes intractable under the most prudent management, it is highly neceffary to know the caufe: Inquisitive men have, indeed, affidiously investigated it, but to how little purpose, the success, or rather the want

want of fuccefs in general practice, too evidently demonstrates .- I have ventured to suppose, that the most probable cause is a defect of vital energy, either general or local. If general, which it is of importance, indeed, to determine, and an atonic flate of the fystem prevails, that plan must be purfued, which is most likely to produce a state of general strength; but if the caufe be merely local, our views must be very different. It must then be treated as a diminution of action in the part. Not that it is meant to fuggeft, that those two causes cannot exist together; they very often meet in the fame fubject. But it is proper to observe, that they may, and often do exist feparately. Nor are we to conclude, that becaufe our treatment has a tendency to ftrengthen the patient, the defired end will always be obtained. There may be a fufficient quantity of power in the conflitution to overcome a difease, though that power be not fully exerted. It is often neceffary to roufe nature to action, by the external use of ftimulants. But in doing this, it will be well to obferve, that as we have a certain end in view, our means must be adequate. Stimulating applications may be fo used, as to fret or irritate the part, without the least good effect, nay, with very bad effects. If the power and action of the part be not rendered fuperior to the difeafe, every ineffectual effort of nature will increase it, and confequently retard the cure.

Perhaps, the irritation arifing from motion, may in this view, be accounted one kind of hurtful ftimulus, when applied to ulcers on the lower extremities. A perfon

TO INTRODUCTION.

perfon affected with this kind of fore, though he hould not entirely confine himfelf, will be difposed to walk lefs than usual, and to give the leg fome little indulgence. The ftimulus, thus irregularly applied, excites the veffels to an increased action; pain becomes confiderable; the furrounding parts are inflamed; and the discharge is increased .- He refts .- Nature was making efforts to give a new furface to the ulcer, but the ftimulus which excited her to action being withdrawn, her attempts are partial and ineffectual. And as more or lefs of lofs of fubftance, always precedes the fhooting of granulations, perhaps only the first part of the process is compleated; hence the ulcer is more foul, is deeper, and more extensive than before. All these evils are attributed to the motion of the part, and absolute reft is deemed a necessary requifite towards obtaining a cure.-Whether this be as evident as it hath been generally imagined, is a matter very much to be doubted indeed, and is worthy of farther inquiry.

§ It appears then to be rational, as well as agreeable to experience, to fuppofe, that, neither the only nor yet the chief obftacle to the healing of ulcers can arife from the legs being depending parts of the body, but as hath been obferved, from their being extreme parts, where the circulation is least vigorous. Hence it is, that the complaints of younger people are chiefly confined to the head and upper parts of the body, which at a more advanced age ufually affect the lower; and it frequently happens, that fuch as have had diforders of the eyes when young, are afflicted with fiftulæ in

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ano, or fore legs, when they grow older; the circulation of the blood through the more extreme parts, and their confequent tone, being then impaired : and every furgeon knows how much more frequently a gangrene is found to feize the feet or the toes, than any other part of the body. For although the fingers, with their veffels equally fmall, are at a confiderable diftance from the heart, yet the circulation in them is more vigorous, both on account of their veffels coming from the beginning of the aorta, and the continued exercife from their more constant ufe. The lower extremities being still farther distant, and not fo much engaged, have these difadvantages compenfated by the exercise nature has imposed upon them, in the support and conveyance of the whole body; for the want of which neceffary ftimulus, in indolent and fedentary people, the circulation becomes too languid to preferve their due tone. From this caufe. as well as from the anatomy of their parts, it is eafy to account for the fwelling of the feet and ancles, fo common in fuch perfons, as well as for that which happens from the limb having been kept, for any length of time, in an horizontal pofition : for here, whilft the moles movenda is great, the vires moventes are diminished. It is therefore prefumed, that exercise being fo neceffary to fupport general health, and particularly the vigor of the extremities themfelves, is fo far from being politively detrimental, that under proper management, it must prove conducive to the healing of ulcers fituate upon them. Hence it will appear to be the province of art, to devife fome pro-

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per means to regulate the effects of exercise, rather than to aim at a cure some other way, by subverting the order of nature, and depriving the patient, for a time, of a necessary mean of supporting, or recovering his health; which pernicious custom, it is prefumed, is one principal occasion of the difficulty in question.

It may be neceffary to pause here, to take some notice of certain objections made to this mode of reasoning, particularly by the *Editors* of the *Critical*. *Review*. It should seem, that some of their strictures have arisen either from my having expressed myself inaccurately, or from some mistake on their part; or it is not likely they would have adduced the instance of the division of the facro-sciatic nerve of a frog, in opposition to the theory I had ventured to advance. By this instance they would intimate, that great nervous energy is not so necessary in order to the healing of ulcers on the lower extremities, as I am supposed to have imagined; and that "my theory is therefore "fallacious, and the consequences drawn from it, "erroneous."

I fhall not ftop here to make any remarks on the cold blood of this aquatic, as rendering it an improper inftance for illuftrating the fubject in difpute, but fhall only point out what my polition has uniformly been, viz. that the circulation of the blood in the lower extremities is too languid for the purpofe of due incarnation, and the fpeedy healing of fores feated upon them. That fuch a languor actually exifts, befides a variety of other evidences, is demonftrable

ftrable from the vaft coldness of the feet and toes of people of a delicate habit, in whom, indeed, they are feldom warm but in the hotter months. The fact is certainly incontrovertible, the vis vitæ is actually lefs than in fuperior parts; and wounds occafioned merely by accident, and under every favorable circumflance of age, conftitution, &c. and brought into a good flate, are found to cicatrize more flowly than on other parts of the body : whilft no wound heals fo foon any where as on the head, let the natural conftitution be whatever it may. As to nervous influence, which the objection alludes to, there may be enough of it, of a certain kind, for any thing I know, and perhaps often more than we wish for; no fores being more irritable than those of the legs. And if I have appeared to intimate, that the lower extremities are enervated, it was intended in fuch a fenfe only as to denote their atonic state, for want of a due vis vitæ, a fact not to be denied; and I have no doubt, has for its caufe the languid circulation in the parts. This, as well as every other inftance of the animal œconomy is, indubitably, wife and falutary on the whole, though it will not follow that it is conducive to the healing of ulcers fo circumstanced; and will ferve to illustrate the propriety of a measure of that exercise which nature has evidently defigned the legs to fuffain, and which is fo much infifted upon in the courfe of this work.* § The

* The idea of a defect of vital energy in the part, has lately met with farther support from experiment, or rather from facts; which

§ The nature of the ulcerative procefs next deferves our confideration. When from fome caufe, external or internal, ulceration takes place, a very ufual way of accounting for this folution of continuity has been, that there is a melting down of the foft parts into pus, fanics, &c.* Experiments on dead and living fubjects have been made to prove this; yet it is apprehended, this procefs never takes place in the living body; it is a procefs that contradicts every thing we know of the animal œconomy, and the obfervations of the moft accurate phyfiologifts.

The perfect folution of a foft part, even when removed from the body, is not eafily affected by art, unlefs

which being afcertained by a gentleman in no wife concerned in this difpute, may, perhaps, have more weight than if fuch experiments had been made merely under my own eye.

MR. PARTINGTON did me the honor of informing me, that as foon as he had perufed my treatife, he tried the effect of electricity upon ulcers of the legs, fcrophulous fores in the neck, and upon chilblains, whilft they were under the care of furgeons of eminence: and that both they and Mr. Partington were fatisfied of its good effects in expediting the feveral cures, in confequence of its local influence and flirring up the vires medicatrices in the parts. Upon the fame principle, I apprehend, it has been found fuccefsful in many cutaneous difeafes, improperly afcribed to acrimony, and other obfcure qualities prevailing in the fyftem, which are rather owing to a diminifhed vital energy, or to a morbid action, in the part.

* " Vascula distenta rupta cum dolore, calore, pulsu, liquores suos effundunt, folvunt, putrefaciunt leviter, solida tenera atterunt, folvunt, fluidis miscent in unum similem album, spissium, glutinosum, pinguem humorem, pus dictum." BOER. Aph. 387.

" Pus or matter is certainly no natural fecretion.-I believe I may

unlefs it be immerfed in cauftic liquors, much lefs have we ever feen mulcular fiefh, and cellular membrane converted into a fluid refembling pus. Simple divifion of a living fibre does not neceffarily produce the death of that fibre; but decomposition, either by the putrefactive fermentation, or by art, never can take place without depriving the affected part of its life. Moreover, as the purulent matters difcharged by ulcers, differ in their chemical properties from dead animal fibres in a flate of diffolution, we are certainly not authorized to conclude, that there is a fimilar arrangement of particles. Befides, we ought to find the most profuse discharge from an ulcer during the exfoliation of its floughy covering; whereas the reverse of this is really the cafe : an ulcer never pouring out for large a quantity of good matter, as during a few of the first days after its furface has become clean. And drerv practitioner must recollect having feen cafes, where the dimensions of an ulcer have been increased to twice its fize, in the fpace of a few hours, without fuch a proportionate increase of the discharge, as we ought to expect under the idea of diffolution.

The process of ulceration feems to be a certain act of the absorbent system, whereby in confequence of a stimulus, it takes up the soft parts, and carries them

may venture to affirm, that the diffolution of fome of the folid particles of broken capillary veffels, and a mixture of fome part of the juices that fhould circulate through them, makes a neceffary part of the production. MR. POTT. vol. i. p. 315.

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into the circulation.* No anatomist can doubt the poffibility of this, when he confiders, that ointments, and even powders are readily abforbed, especially where there is a want of cuticular covering. If this account of the matter be admitted, we shall be affisted in understanding the cause of the rapid progress of ulceration, the exfoliation of dead soft parts, and designamentation of carious bone.

Since this tract first appeared, it has been objected to this idea of ulceration, that it is a doctrine as yet by no means established, and although there certainly doth exist in the animal body a power of absorbing its own conflituent parts, yet it cannot be proved that this absorption is always attendant upon ulceration; nor is there any reason that prevents us equally from supposing that ulceration may be the effect of fome external corroding power, the nature of which is unknown to us.

Such an obfervation certainly deferves a ferious attention, and I do not know that any thing I have advanced is directly inconfiftent with it. I pretend to no great phyfiological knowledge, and never intended to infift upon the extent of the abforption to which I have alluded, or have attempted to prove that it always takes place in ulceration; I have only

* Phyfiology, I believe, is indebted to the ingenious MR. HUNTER for this no lefs probable, than curious idea.

+ See MR. CRUIKSHANK's letter on the abforption of calomel, to whom the world is no lefs indebted for his indefatigable attention to, and ufeful difcoveries in the abforbent fyftem.

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contended, that the idea of Mr. Hunter (as far as I have adopted it) appears to me truly ingenious, and far preferable to that of parts being melted down into pus; against which, at least, I imagine some arguments are advanced that will not easily be overturned.

It is very probable, indeed, that the animal juices when extravafated, may acquire fuch an acrid quality in a difeafed part, as may deftroy that cohefion of parts neceffary to their life, and may fo change them that very little of them may be feen ; though the whole, of them may not be taken off by the abforbents. It is certain, that the conftituent parts of animal bodies when reduced to their first principles, are but fmall in quantity, and when the body is fo reduced by putrefaction after death, the quantity of earth and water is but very inconfiderable. But whatever analogy to this putrefactive principle the juices may acquire during life, fo as to be capable of mutilating the parts, it will by no means follow, that they are fo changed as to be turned into pus; for not only is the diffolution here spoken of, the effect of disease in the juices, but is fuch as must reduce the parts to their first principles, at least in a confiderable degree, and exifts only in a foul and bad ftate of the fore; whereas the formation of pus, especially of laudable matter, depends on the healthy ftate of an ulcer, and is ufually an indication of a favourable iffue. So that, whatever corroding power there may be, whether internal or external, it can, by no means, account for the kindly suppuration of absceffes and ulcers, where the parts are fuppofed to be melted down into

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pus. An idea, as I conceive, unbecoming a thinking mind, as it fuppofes fomething utterly unlike every thing elfe of which we have any probable evidence in the animal æconomy; and which was, indeed, the chief matter I intended to controvert, and must still think, is far lefs probable than that act of the abforbents, conceived of by Mr. Hunter.

§ But this idea of ulceration fuggefts a very natural inquiry, viz. From whence comes the purulent matter difcharged by ulcers? It has been faid, that uleers are drains to carry off peccant humors;* or diffolved cellular and mufcular fubftance; \Rightarrow we have been told, indeed, that pus exifts in the blood, and is poured forth at thefe outlets.—The laft-mentioned idea is in itfelf fo improbable, and ftanding unfupported by any decifive proofs, it may be regarded merely as hypothetical.—A few remarks on the former will naturally arife in the farther difcuffion of the fubject.

* "Ulcers may be looked upon as drains which nature has made choice of to relieve herfelf." LE DRAN.

⁺ "Pus is a mixture of various ingredients, viz. blood, which has loft its red colour, and is the largeft ingredient in the mixture; a little vifeid lymphatic juice, and the extremities of the lacerated veffels, which fall off in fmall parcels, and are converted into a foftifh and whitifh kind of glue." FIZEZ, On Supparation.

"Si fanguis in ventrem effusus fuerit, præter naturam, necesse est ut suppuratur. HIPPOC. Aph. xx. Lib. 6.

"Hac enim parte caro putrescit et exulceratur, et accedentem pituitam et bilem, insuper putresacit, et fit pus." Id. de Morbis. Lib. 2.---See slfo CULLEN.

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" The most probable opinion," (fays a very ingenious and respectable author)* " hitherto advanced, concerning the formation of pus is, that it is always produced by a certain degree of fermentation in the ferous part of the blood, after its fecretion into the cavities of ulcers and absceffes." This opinion stands fupported by the most respectable authorities, + but is not free from difficulties. Serous effutions made from a furface, that is not in a flate of inflammation, will remain for months unchanged, and never affume the appearance of pus. : More or lefs of inflammation || feems absolutely neceffary to its formation. It may likewife be observed, that the nature of the difcharge depends greatly upon the healthy, or morbid ftate of the fore, as will be made to appear in its place.

Perhaps then, it may approach nearer the truth to fuppofe, that pus is a fecretion fui generis, from the ruptured veffels of a cavity, or ulcerated furface, confequent on a certain degree of inflammation; poffeffing originally the most bland and falutary qualities. § Not that it is meant to be underflood, that pus is fecreted

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* Mr. BELL. On the Theory and Management of Ulcers, &c.

+ Dr. GEORGE FORDYCE.

‡ The water in hydrocephalus internus, afcites, hydrocele, &c. which is generally coagulable.

"When a quantity of fluid is thrown out into any cavity, (the inflammation continuing) it ferments, and is converted into pus." Dr. GEORGE FORDYCE.

§ It is not neceffary, that a part fhall have precifely what we understand by a glandular structure, in order to fecrete fluids for parti-

creted in the form under which it appears, but it is probable, that when it covers the furface of a wound, under the appearance of an adhefive glairy fluid, the only difference between this and white pus confifts in the quantity of fuperfluous water : when, by remaining for fome time upon the part, the thinner fluid is abforbed, or exhaled, the remaining part affumes opacity, and acquires a thicker confiftence; * for if wounds, furnifhing a great quantity of good pus, are

particular purpofes. The mucous membrane, which lines every cavity exposed to the action of external air, fecretes a fluid called mucus, for the defence of that part, &c .- This, in a healthy flate, is mild and inodorous, and much refembles the white of an egg, being perfectly infipid ; and confequently, can be little more than a mucilage and water. Whereas ferum contains neutral falts in abundance; fuch mucus therefore cannot be effused ferum. If it were merely ferum, it would be more irritating as its confiftency increased, the reverse of which is the case. When morbid fecretion takes place, as in catarrh, gonorrhœa, &c. the effects of the neutral falts in the ferum poured out, are pretty evident. Now, these difeases cannot increase the quantity of faline matter, confequently, we must feek for the cause of this acrimony in the different action of the veffels .- Thefe varioufly excited, by external or internal flimuli, to irregularities in their action, may likewife affift us in our inquiries after the caufe of the various appearances and qualities of pus, and of the difference between that and fuch morbid fecretions from an inflamed furface, as affume a purulent appearance .- With regard to the latter diffinction, it may be worthy the confideration of phyfiologifts, how far the fimple inflammation of a furface, may possibly be inadequate to the production of true pus; and whether an erofion, or lofs of fubftance, may not be effential to that particular fecretion.

* SIR JOHN PRINGLE. (Appendix.)

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examined a few hours after being dreffed, no fuch matter as pus will appear, but a thin, ill-looking fanies is fpread over the furface.*-Indeed, the formation of true pus, and the putrefactive fermentation of animal fubftances, bear no refemblance to each other, fince pure pus is perfectly inodorous, whilft the other emits a volatile alkali. Nor do we find, that matter discharged from a wound bears any regular propotion either in quantity, or quality, to the fupposed degree of fermentation. If we only attend to the different afpect of an ulcer, when it produces pus, ichor, or fanies, whether we reafon analogically, or from evident appearances, the idea that has been thrown out, of the healthy or morbid action of the veffels, as the most probable cause of this difference, +appears, by no means, to be an unreasonable conjecture. In support of this theory, however, I shall

* From hence, a fallacy may be difcerned in the ingenious theory of the late Mr. Freke, though it is a much more rational one than that of concoction, or what is ufually meant by fermentation. He humoroully obferves, if it can be fhewn, that any part of the blood, put into a fand heat, and digefted there, or that decocting it ever fo long, produces any thing like laudable pus, he will give up his theory, viz. that pus is produced by defpumation, or agitation, from the ferum of the blood paffing through the partially obflructed extremities of divided, or ruptured veffels, which like a fponge, refifting a free paffage to the globules of air contained in the blood, beats up the ferum in its paffage into a froth, juft as foap and water would be by a like agitation.—ART of HEAL-ING.

+ See MR. BELL's last edition of his Treatife upon Ulcers.

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mention

mention one fact that may merit fome attention; viz. that not only by medicines, but by mere external applications, it is frequently in the furgeon's power to alter both the appearance, and the quantity of matter difcharged from a fore, as every man of any experience must often have had occasion to observe.

But, the idea of true pus being a diffolution of the muscular and cellular substance, &c. may, in another point of view, feem to demand a little farther attention. In fupport of this opinion, we are told, that in every collection of matter, there is actually very confiderable loss of substance in the part, and for proof of it we are pointed to the cavity from whence the matter has flowed, on the burfting, or opening of the abfcefs, and to the difappearance of the cellular and adipose membrane; the greatest part of which, howpoint a little more narrowly, let us take a view of it have where the fact ought to be the most evident, as in the cafe of large imposthumations, fuch as the ploas abscess; from whence a pint, or more, of matter has run out on the fpontaneous giving way, or artificial opening of the integuments. In fuch cafes, has there been a deftruction of muscle, veffels, cellular and adipofe membrane, equal to the quantity of pus, or the cavity that is formed ? What ! a pound * of mufcle and adipofe membrane deftroyed? A bulk,

* Experiments on living animals have lately been made to fupport fuch an opinion.

+ Hunter on the Blood

equal

equal to a pint, or more, of matter ?- We may, indeed, find the muscles separated one from another, and the cellular membrane torn away by the weight of the fluid ; or fometimes a muscle divided longitudinally, or its belly eaten through ; but the idea of a whole pound of organized parts being loft, or melted down into matter, is really much more improbable than any thing that has been advanced concerning the formation of pus, or doctrine of the absorption of parts into the conflitution. For whatever has been faid on the latter, is merely to account for a loss of parts, which fometimes actually difappear in the procefs of ulceration; but the former opinion fuppofes a quantity of parts to be destroyed, (in order to account for exceffive fuppuration) where there is no fuch manifest disappearance. Moreover, in large collections of matter, there is not only a prodigious discharge on the first bursting of the abscess, but it often continues immoderate for days, and even for months, till the patient is deftroyed by it : yet upon opening the body, only a very fmall portion of muscle appears to be loft, and there is little, or no more deficiency of adipofe membrane in the part, than throughout the reft of the body; the whole of which, in fuch cafes, is exceedingly emaciated, and the fat fuppofed to have been abforb-To fum up the whole, it appears, that in the fored. mer inftance of the fudden fpreading of an ulcer, * the discharge is, by no means, proportionate to the

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great lofs of parts; and in the prefent, there is not a lofs of parts proportionate to the immoderate difcharge.

But it is faid by others, that there is not, indeed, fo great a diffolution of folid parts, as to furnish the whole of these purulent matters, but so much of them is melted down as gives tenacity to the fluid; and is an effential ingredient in true pus.* Besides what has been already advanced in answer to this latter affertion, it may be observed, that wherever there is an evident admixture of fat, or of the craffimentum of blood, or the parts are in a lax and floughy state, the pus is never good, but always thin, discoloured, or fetid. Whereas, when the surface of an ulcer is firm and florid, without the least appearance of the melting down of parts, (as it is called) there, it has been observed, the pus is thick and good; there only is it album, læve et æquale.

Moreover, if the diffolution of organized parts, does not furnish a very confiderable portion of the purulent discharge, it can supply only a very small part of it, and is rather an accident, in particular instances, than a necessary ingredient in true pus. This, I think, may be sufficiently manifest from what has been faid above on the state of the parts, as they appear in those who die of an atrophy, in confequence of very large incurable absceffes, as well as from the foul state of every fore, and the impurity of the pus,

· BOERHAAVE, Mr. POTT, &c.

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whenever there is an admixture of fat, or of the craffimentum of the blood. And if fo little of the pus can be furnished by the diffolution of folid parts, and its true purulent appearance be not occasioned thereby, the difficulty is not removed, and the question returns, viz. how is pus formed ?—a question I have attempted to answer, and it is hoped, in a manner, that for any thing that has yet been advanced to the contrary, may appear more fatisfactory and rational than any other account that has been given of the matter.

§ When the conflictution has, at a certain time of life, been long accuftomed to the prefence of an ulcer in fome part of the body, practitioners have been much divided about the propriety of attempting **a** cure. It has been deemed improper to heal it, without fubflituting a drain in fome convenient part, in its ftead.* This opinion is founded partly on theory, partly on obfervation. If we regard old ulcers as drains, or outlets for vitiated humors ; the evacuants of a confiderable quantity of fluids, where retention muft diforder, or overload the fyftem, and induce plethora, ‡ &c. fuch ideas muft naturally pro-

* See MR. BELL, On Ulcers, who thinks Issues in all cafes indifpensible; of which fentiment farther notice will be taken.

 A mefure qu'on travaille à guérir l'ulcere, il faut avoir foin d'ouvrir un cautere à la partie qu'on jugera le plus convenable, pour donner aux mauvaifes humeurs un épanchoir à la place de celui qu'on va boucher. Traité des Ulceres, &c.

‡ MR. BELL.

duce

duce a doubt of the expediency of effecting fo important a change : and facts are not wanting to prove that difagreeable, and even fatal confequences, have followed the drying up of long continued ulcers, and even of iffues. *-But though the facts cannot be denied, the explanation given of them may be called in queftion. + We know, that in many cafes, very fuspicious a priori, ulcers have been dried up, not only without bad confequences, but where very confiderable advantages have enfued. Whereas, fatal accidents have fometimes taken place after the cautious healing of more recent fores in apparently good habits of body, which would fcarcely have been attributed to fuch cures as to their proper caufe .- The post Hoc and propter Hoc, it is well known, require a judicious diferimination .- Where, indeed, there has long been a very profuse discharge of matter, a ceffation of the accustomed evacuation may have fome influence. But if particular cafes are excepted, it is more than probable, that the effect of ulcers upon the conftitution, is not to be imputed to the Quantity,

* Le DRAN's Observations-SHARP's Surgery, Introduction.

† Ulcera diuturna et inveterata non fine periculo curantur, nifi corpus diligenter purgetur, et victus ratio bona obfervetur; cujus rei exemplum habet Gal. Fabricius, de quodam viro qui cum ulcus inveteratum in crure finistro ab empirico αμεθοδος curatum fuisset, post menses aliquot pleuritide in finistro latere correptus, atque inde mortuus est, et morbo durante talia expuit, qualia antea ex ulcere effluere folebant.

> SENNERTUS, Lib. v. Prognostica. much

much lefs to the Quality of the matter difcharged by them; which it is likely, depend on the flate and action of the veffels of the part, where, at leaft, there is no fpecific contagion. No opinion is more popular than the exiftence of humors in the blood; and perhaps very few opinions have lefs foundation in fact. The ferum of blood may differ in confiftency, and contain more or lefs faline particles; the red globules may exift in greater or fmaller quantity; the coagulating lymph may vary in its relative proportion to the watery parts of the blood—if we advance much farther, we are treading merely on hypothetical ground.

Nor are we warranted to conclude from obfervation, that Quantity ought to influence us much more in the healing of ulcers. This has, indeed, been ftrongly afferted by many, and is urged by Mr. Bell in the laft edition of his Treatife upon Ulcers ; but it is apprehended, without any appearance of argument-Let us inquire into the fact-Are the effects of ulcers upon the conftitution, by any means, proportionate to the quantity of matter difcharged by them ? Nay, do they not more commonly take place in people of a fpare and thin habit, and those of a lax fibre, rather than in the athletic, and fuch as are fubject to plethora? And do we not fee, that the fpecies of ulcer, and its feat, very often determine its harmlefs, or mifcheivous tendency ? Whatever may be the habit of body, were we always to form our prognoftic of the termination of ulcers, from the quantity of furface

furface they occupy, or the fluids they difcharge, every day's experience would prove the fallacy of fuch an indication. Small ulcers, (unattended with caries of the bone) may bring on hectical fymptoms, and the amputation of the whole limb fhall fave the life, and reftore the health of the patient.

It has been observed by the Editors of the Critical Review, in their remarks upon this tract, that they have feen " both afthma and Palfy repeatedly brought on and cured, by healing an old ulcer and again opening it; nor would any remedy prevent the recurrence of these dangerous diforders or cure them, without reftoring the ufual difcharge; and from the very fame part."-I feel myfelf indebted to every reader who may flate objections in an open and candid manner, efpecially when they relate to matters of fact, as in the prefent well-chosen instance. But, I imagine it cannot be a prefumption to fuppofe, that fuch inftances are very rare, and can therefore operate only in a way of general caution. As to the more common evils which may have followed the healing up of fore legs, it has been observed, that they cannot all be attributed to the cure of the ulcer, though it is poffible fome of them may. But this, is has been faid, is an effect, by no means, peculiar to the cure of fore legs; and I am certain, for I fpeak from experience, is feldom owing to the cure, but to the improper manner in which the healing has been accomplished; whereby the veffels of the part are left under a certain diftempered state and morbid action, which terminates

nates either in a new ulcer, or irritates the fystem : effects that can very rarely follow a proper digeftion and due cure of the fore. And this is a circumfance of fuch importance in regard to fore legs, that if properly attended to must, fooner or later, induce furgeons to adopt the plan now, upon due reflection and experience, again commended to their notice; and will, I hope, eventually prove a lafting benefit to fociety, when I can no longer have an interest in it .- But to return from this little digreffion : it is general doctrines that good practitioners will have regard to, and the fafety of healing old ulcers on the legs, is mentioned as fuch; and as a general doctrine, I may venture to fupport it both from reason and experience. Nor do objectors, I imagine, defign to prohibit the cure of them on every occasion, in the fear of althma, palfy, or any other chronic complaint. Particular exceptions there, doubtlefs, are to every general rule, and with which men of practice are very well acquainted, and to which they will cautioufly attend : though by the bye, furgeons are continually attempting the cure of old ulcers on the legs in every large hospital, just as readily as if no kind of bad confequence were ever to be apprehended; and when they fail of fuccefs, are neverthelefs in no fear of inducing an afthma, by removing the falutary ulcer, at the expence of the limb. As to the peculiar objection to healing old ulcers, there is a deal of fallacy in the circumftance of the length of time an ulcer may happen to have fubfisted, and particularly with regard to poor · 1171 810 1

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poor people, in whom it often becomes flationary merely from their neceffitous fituation, which deprives them of the beft means of relief; to which may be added, their not being in a capacity of complying with the miftaken notion of the neceffity of reft,* which has proved eventually the occasion of more

* An anonymous writer, who lately fuggefted his thoughts on ulcerated legs, with a view to lead furgeons to investigate the fubject, justly claims from his candour a title to notice, especially from me, for the polite mention made of the plan I had recommended, which was then but just published. And it is with pleafure I can affure this gentleman, that the treatment of fore legs is now a matter taken up in different parts of the kingdom, and with a fuccefs that has ferved amply to confirm the practife I had fuggefted. Every fresh instance has demonstrated the propriety of the idea I threw out, as to the occasion of the difficulty of the cure, and the means of removing it, as well as of the futility of attempting it upon the lenient plan, which, as this writer obferves, either fails in the first instance, or the fore often breaks out again. In farther confirmation of this fentiment, I would remind this candid inquirer, that much more powerful applications than yellow bafilicon are required to bring ulcers into a good state, which once effected, dreffing them with a mild digeftive will not keep them open, (as he has fuggested, in cases where he apprehends they ought to be preferved as iffues,) unlefs it be from its not being fufficiently active ; and not from its ftimulus. Let the peabe taken out of an iffue, and the ulcer dreffed with yellow bafilicon ; or a perpetual blifter be treated in like manner, and they will neither of them be long kept open ; whereas, common blifters are fometimes difficult to be healed; and every practitioner must have known them continue open for two or three months, in fpight of every attempt to the contrary, especially in teething children; though here, it is acknowledged, the evil is not local. This writer's

more amputations, than almost all the injuries from violence and accident, which usually attend the lower elasses of mankind.

§ The ill-effects which ulcers have upon the conflitution depend, it has been faid, on the circumftances and fituation of the fore, and feem to arife from irritation, and the confequent general flate of excitement into which the fyftem is thrown. When the difcharge is very profule, inanition is produced; but fimple inanition is not a proximate caufe of hectic fever, nor of fymptoms of irritation. * The fyftem being kept in a perpetual flate of tenfion, by the conflant flimulus of an ulcer, and nature fruitlefsly exhaufting herfelf to fubdue an obflinate difeafe, will fufficiently account for that train of ill fymptoms, which fometimes accom-

ter's idea may, however, ferve to exemplify what pains are taken, upon the lenient plan, to compel ulcers of the legs to dry up, when the light flimulus of a mild digeftive is fuppofed capable of keeping them open.—We cannot therefore infer, from fome complaints fucceeding to cures effected in the ordinary way, that there can be no fafe way of healing old ulcers; nor learn from fuch practice, when, or by what means they may be falutary, or injurious to the habit.

* Wounds of the tendons, ligaments, cartilages, and the cavities of joints, are more liable to be attended with fymptoms of irritation, than the inflammation of other parts: by fuch fymptoms therefore are meant, great depression of strength, anxiety, frequent respiration, quick and small pulse, a tendency to delirium, or spafmodic affections of the muscles. These symptoms do not indicate a difease of the general system, but depend upon the prefence of an irritating cause; and when the cause is removed, the effect immediately ceases.

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panies ulceration. +-But though ftimuli, in certain habits, and under certain circumftances, may prove detrimental to health, yet in many inftances, we find them excellent remedies. The good effects of blifters and cauftics, applied near the feats of difeafes, are generally known; yet we do not suppose, that there is any fpecific virtue in cantharides, neither do we regard them as the evacuants of vitiated humors. It is a fact pretty generally admitted, that however plentifully a bliftered part may pour out its ferum, it is often more advantageous to heal the fore, and apply a fresh stimulant, than to keep it open by mild digeftives. If the good effects of blifters, therefore, be admitted upon these principles, why reject this reasoning in the cafe of ulcers, which may not improperly be termed perpetual blifters or iffues ?

The effects of ulcers upon the conflictution in general, being thus hinted at, the main queffion may be refumed, viz. Is it always proper to attempt the cure of ulcers? Were a general and direct answer to be offered, it might be given in the affirmative. Should a cafe occur (which is not improbable) where upon the whole, it may be judged a lefs evil to fuffer the ulcer to remain, than to attempt its cure; yet if its extent of furface be very confiderable, it will be prudent to leffen its dimensions. To this may be added,

† Natura enim, femper folicita est in confervatione individui fui, morbifque sese opponit; sed prout valida aut imbecillis suerit, aut victoix evadit, aut succumbit. HILDANUS, Observ. Chirurg. 77.

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that as the feat of an ulcer, however fmall, may be in a very inconvenient part of the body, a large iffue * may, in many cafes, be fubfituted in its flead; which if this reafoning be valid, will much oftener than it is imagined, have the fame good effect. Whether, therefore, we regard the operation of ulcers as a drain, or as a flimulus to the fyftem, there can feldom be any reafonable objection against healing them.

The preceding obfervations are natural, they are founded on facts, and it is hoped, they will fupport the inference intended to be drawn from them. Many of them almost infensibly occurred to the author in the course of his practice, nor did he difeern half their force, till repeated experience constrained him to attend to them, and forced on his mind such reflections as led to support them. Be it observed, however, once for all, that success preceded his reasonings, and though he should have failed in his theory, the facts stand unaltered, and every man will find himself at liberty to prefer his own illustration of them. He concludes it, indeed, far fafer, even industriously to

* In all these cases, it is proper to purge once or twice a week with calomel, if the patient can bear it, and to make an iffue when the fore is almost healed. SHARP, Introduction, p. 40.

[‡] LE DRAN, BELL. The latter has fome observations tending to prove, that the discharge from a common iffue is usually much greater than is generally imagined.

invent

invent a fpecious theory in fupport of experience, than to found a practice on mere metaphyfical reafonings, however ingenious they may feem. If he has erred, he has erred on the fafe fide, and again cheerfully fubmits both his principles and practice to the judgment of others.



A TREATISE

TREATISE

UPON

ULCERS of the LEGS.

N the treatment of ulcers on the lower extremities, it has been effeemed of the utmoft importance, to confider the fore in a peculiar connexion with the general health of the patient. In this view, it has been judged fufficient to bring fome ulcers into an eafy, harmlefs flate; whilft others, from their long continuance, magnitude, or advanced age of the patient, have been thought incapable of cure. But where none of these impediments may occur, furgeons, nevertheles, differ very much about the most fase and rational means of accomplishing it.

Whether there be many ulcers whofe cure may not be undertaken with the greateft fafety, and probability of fuccefs, I shall not dispute again in this place; and however numerous they may be, the known rules of art are sufficient for every thing

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that feems to be expected from it. I may, however, venture to add, that perhaps nothing will contribute fo much to the eafe of the patient, as the bandage hereafter to be mentioned, drawn moderately tight. It is the confeffedly curable ulcer then, that will be the chief fubject of this tract, including, however, many of those found in that dubious state fome practitioners have imagined.

To purfue this intention more perfectly, it will be neceffary to take a comprehensive view of the ufual modes of treatment recommended, together with the internal remedies on which furgeons have at different periods principally relied. And here a large field for difputation would open, if notice were taken of every thing that has been in vogue, or has had fome warm advocates even from the prefs. But I shall only glance at fuch things as have not been generally adopted, and fhall chiefly confine my observations to those in great credit amongst furgeons of reputation, who the author of this little effay wifnes may perufe it with the fame degree of candor, that he has meant to exercise of. modefty and respect, in the liberty he has taken in. differing from them in opinion. He cheerfully acknowledges the fuperior abilities of many of those who may be his readers, as well as their more extenfive experience in the general practice of furgery-he thinks, however, he has fome improvements to offer. on the article of ulcers, though there are fo many others, in which he fhould think it fufficiently honorable to fay, I pra, seguar, si non passibus aquis.

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ULCERS OF THE LEGS.

It may be proper to begin with the internal temedies, as they will require but few observations, and will ferve to unfold the nature of the plan proposed in the following pages. Amongst remedies of this clafs, the CICUTA, SOLANUM, and NITRE were once in great repute with fome practitioners. Of the former, which has been tried in fo many complaints, little more need be faid in this day, than that it hath failed of that general fuccels we were once made to expect, in any of those for which it was at first fo highly recommended; though it is well known there are others, in which it frequently proves a most valuable remedy. In the hands of judicious phyficians, and particularly those great ornaments to the profession, Dr. Warren, and the late Dr. Fothergill, many fevere anomalous complaints have been immediately relieved by it, after having withflood every rational means that could be thought of *- The cicuta, however, is no fpecific for C 3 fore

* Of this, the writer of these pages was, perhaps, one of the most fortunate instances, when under the care of Dr. WARREN for a most fevere and painful affection of the face. The cicuta alfo proved equally fuccefsful in regard to Mrs. Underwood, when afflicted for a long time, with violent pain in the flomach, and for which Dr. Warren had previoully directed cordials, bitters and opium, without any lafting advantage .- The author hopes he fhall not offend that eminent practitioner, by taking this opportunity of publicly acknowledging, the very great obligations he has been long under to his friendfluip and fervices ; and as, by no means, the leaft of them, that he has been, more than once, the kind instrument

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fore legs, and though it may have its use as an anodyne, in a few cases hereafter to be mentioned, it will be fufficient to observe here, that it hath, perhaps, done less for these than for any ulcers, for which it has been at different times recommended.

The SOLANUM, I believe, has been long exploded, as a remedy not at all to be depended upon, and would not have been mentioned here, if great things had not once been faid of it. It appears, however, to have had its ufe in fome cafes, which I was witnefs to many years ago, when houfe-furgeon to *St. George's* hofpital, but it is certainly much too powerful and uncertain a remedy for general ufe, and no rule has been found whereby a judgment might be formed of the probability of its fucceeding, unlefs it may be faid in cafes attended with great pain; and herein it is not only far lefs certain than opium, but much inferior to the cicuta. It may, however, be adminiftered with fafety for a few days, and will often produce a florid furface on an ill-conditioned fore.

NITRE was a few years ago recommended in the cure of ulcers;* and having been long regardful of

inftrument of prolonging the valuable days of his nearest relative, and choicest comfort in life. The cicuta hath likewise been fometimes efficacious in diseases of the most dangerous nature, and even in that opprobrium to the healing art, the cancer, when feated in the *uterus*. Of this, the writer may give the public a fuller account in fome future work, if the remedy should continue to be as successful as he has in several instances lately experienced it.

* Dr. ROWLEY, On Ulcers of the Legs.

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every thing that promifed relief in these complaints, I was readily disposed to attend to it. After a fair and repeated trial of it, I can venture to fay only, that it is likely to be useful upon the lenient plan, as it certainly co-operates with the intention there purfued, of reft, evacuations, &c. by its known quality of leffening fenfibility in the nerves of the ftomach and the general fystem, and thus making the fluids circulate more flowly : but it has been obferved,* that the cure of ulcers, when accomplished by fuch means, is feldom permanent. Befides, the poffibility of fuch a medicine, in large dofes long continued, producing fome unpleasant effects in certain conflitutions, may be confidered as another objection to its general use. It is, indeed, a well known and powerful diuretic, but when taken in the large dofes prefcribed, its temporary good effects, I apprehend, are not fo much to be attributed to this as to its fedative powers. In more moderate dofes, however, it may be administered in those cases, wherein the above remedies are evidently called for, as will be noticed hereafter.

Before I proceed to inquire farther into the ufe of internal remedies, it may not be amifs to glance likewife at fome external modes of treatment not generally adopted, which might not, indeed, be thought worth mentioning, but that I wifh to notice every thing that has been reputedly fuccefsful.

One of these confists of frictions, and though it may be accounted in some degree empirical, probably

^{*} Vide the Introduction.

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fome good may have been done by it. And it fo far coincides with the prefent plan, as it proves a flimulus, fupplying the defect arifing from the languid circulation in the extremities. It will thereby liberate the parts, and open the fine veffels terminating on the fkin;* but there is fomething fo painful (as I am told) in the operation, and fo inelegant and inartificial in the mode, that no furgeon will probably ever adopt it.

There are other empirics who effectually cure ulcers of the legs without confinement, or regulation of diet, fome of them with, and others without the ufe of tight bandage; one of these makes free use of the mercur. corrosiv. rub. and as it appears, with very good fucces. But where no bandage has been applied, the ulcers are apt to break out again.

Another method among fuch practitioners, is that of bathing the limb in aftringent liquors, or applying aftringent lotions or dreffings. And indeed fuch a practice in fome cafes, with certain limitations and additions, feems more intitled to attention, than many other external applications; though it is capable of doing great mifchief in the hands of empirics. This method, however, as far as I have been able to trace it, does nothing without very tight bandage or reft.

Befides these methods, there are others which have been used in different parts of the kingdom, not

* Defrictio potest solvere, ligare, incarnare, minuere; dura ligare: mollis solvere: multa minuere: moderata crassefacere.

HIPPOG. Officin. Med. without

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without fome fuccefs; but fo much pains has been taken to conceal them, that their good effects are neceffarily very limited. Amongft thefe, the moft remarkable that has come to my knowledge, is that long practifed by a refpectable gentleman not of the profeffion; who died foon after the former edition of this work appeared. He, indeed, ever kept his remedies as fecret as poffible; but, it is to be hoped, his fucceffor in this branch of the healing art, may be prevailed upon to act with a liberality becoming the profeffion.

I proceed now to take notice of fuch internal remedies as have been in more general use, and are still in great reputation with the best practitioners in surgery.

The firft I fhall mention is MERCURY.—This may, indeed, be ufed with great advantage in many cafes,* as a most powerful deobstruent and stimulant. But when exhibited freely, fo as to raife a falivation, the cafe is entirely changed; it may, indeed, from the vast discharge it occasions by the various fecretions, in a few inflances carry off fomething that has been injurious to the habit, and may especially keep it from the wound, and from counteracting the furgeon's defigns; but it is very probable, it usually acts far more powerfully by reducing the vis vitæ for the prefent, and thereby coincides with the intentions of rest, diet, and purgatives, as will be farther shewn in the sequel of this work. And every candid practitioner will allow, that of all the cafes of fore

* See FALCK on Mercury.

+ See SHARP's Surgery. legs

legs that return fo frequently to the hofpitals, the greatest number is from those who were cured under a course of mercury; nor is it even probable, that strong and laborious men, whose fores have been healed by the means of so debilitating a plan, should continue long in a found state, when they return to their usual diet and exercise.

CALOMEL taken inwardly, and in fmall dofes as an alterative, though it lefs powerfully promotes the fecretions, acts neverthelefs upon the fame plan, and being, indeed, ufually joined with purgatives, cannot fail to effect juft as much as other medicines of this clafs. It may have one advantage of them, however, by acting as a ftimulus to the fyftem, and in common with other mercurials is likely to be ferviceable where the habit may be tainted with lues venerea.

PERUVIAN BARK is directed in the cure of ulcers of the legs, as it is alfo of many other fores, and is, doubtlefs, a very valuable drug. In the cafes before us, and perhaps in all others, it acts as a tonic, and as fuch, often produces wonderful effects; neither phyfician nor furgeon would willingly practice without it: but in the prefent inftance, it may be objected to, in many cafes, as a medicine to be very long continued, at leaft, with the view in which it is fometimes preferibed. It is ufeful only where nature is languid, and her powers ftand in need of affiftance to bring an ulcer into a good ftate; it may then, in general, be foon difcontinued, as fhould every other means ufed under the idea of expediting a cure. It may be doubted, indeed, if it ever acts as

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an aftringent in this way, but if it does, it will be often injurious, as will be farther explained in its place.

After what has been faid, little need to be obferved on the article of PURGING, unlefs it be to make an apology for fo egregious a deviation from the general, and most antient practice ;* and this I am ready to do both on the prefent, and every other occafion, when I shall be found differing from gentlemen who have made furgery their fludy and practice much longer, and to more advantage than I have pretended to .- But, amicus Plato, amicus Socrates, fed magis amica veritas .-- To yield to any authority, would here be criminal. Facts muft, and will fland .--- I have feen the practice of the most eminent of the profession both here and in Paris, and have profited from it; but in this inftance, at leaft, general prefcription has failed, and every man knows how tedious is the cure, and how frequent the relapfe of fore legs. Nature is compelled to dry up the furface of the ulcer, by the improper help of epulotics, reft, abstinence and physic, rather than encouraged to throw off by the fore, whatever is offenfive, to fill up the furface with found flesh, and gradually to abate the difcharge, only in proportion as that furface diminishes .- This is the work of na-

* See HIPPOC. Lib. de Humor. TURNER, SHARP, and HEISTER on Ulcers of the Legs, the last of whom more particularly advises frequent purges to carry off the foul humours; forgetting that a continued recourse to them, will carry off the good as well as the bad.

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ture.—'Navav qu'ous ialgos *—art fhould do no more than affift her endeavours, or remove the obftacles in her way.—But this is to anticipate the fubftance of the following fheets; fuffice it to fay here, that whatever virtue the exhibition of purges may be judged to have in healing of ulcers, the frequent use of them certainly does not dispose them to remain fo; nay on the other hand, I venture to affert, that the long continued use of them is needless, and even prejudicial, in the cure itself, as is every other mean of lowering the firength, and for the present impairing the general health of the patient.

Another mean in great repute, both with former and modern practitioners, is the use of ALTERATIVE MEDICINES .- What virtue fome drugs may poffibly be pofieffed of, it may not feem very modeft to difpute, but this I may venture to fay, that fome medicines have obtained very fine names, which it is well if they deferve. That there are fuch, as with very little or no fenfible operation, may affift the vis medicatrix naturæ to make a falutary change in the fystem, will not be doubted by men of experience; though there are certainly very few medicines that act fpecifically on any difeafe, or induce any fuch change in the blood, as the term feems defigned to imply. There are cafes and conflitutions, it is granted, that require medicines to affift the healing of wounds, but in fpecific contagions excepted, we have little reafon to think, there are any deferving the

* HIPPOC. Epidem. Lib. vi. § 5.

name

name of alteratives, in fuch a fenfe, as to point them out as adapted to the ulcers now under confideration, or that do any thing more towards the cure of them, than of any other wound. It will be fufficient therefore, the general health be attended to, and fuch medicines occafionally directed, as are likely to promote it, (of which notice will prefently be taken); if it be otherwife, I have been hitherto fortunate in not having found the neceffity of them, and the patient feldom cares how few he is troubled with.

. The reader's attention is drawn next to the DIET to which fuch patients ought to be confined; and here I must again express my diffent from the general opinion, which I would not do, without being thoroughly fatisfied of the fufficiency of the grounds upon which I advance fo very an uncommon one. But it is apprehended to be a matter of very confiderable importance .- The diet ought not to be flender, unufually low, or limited, as is too frequently recommended,* but just that which the perfon ought to use in a good flate of health; lower than too many like to indulge in, and rather better than fome people allow themfelves; paying due attention to cuftom and habit, which, it is well known, are to a proverb become a fecond nature. The fafety and advantage of fuch a diet will be parti-

* Modicus cibus et aqua omnibus ulceribus conducunt. HIP-FOC. De Ulceribus. See alfo HEISTER, TURNER, and more modern writers on this fubject.

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cularized in another place, at prefent I shall confine myfelf to what is judged to be improper, and fhall therefore briefly point out the difadvantages of an error in this refpect. A low, and very limited diet, by its effects in weakening the conflictution, together with reft and purging, tends to keep up that indifpofition to heal, conftantly observed in these fores; and thus confpires with the weaker circulation in the parts, to prevent the formation of good and laudable pus, fo neceffary to the cleanfing and filling up of every old ulcer. Besides, cures effected under such a regimen are very unlikely to fland, and accordingly very rarely continue for any length of time. In many patients, and efpecially the heedlefs, and often abandoned amongst the poor, who foon return to their old and very different ftyle of living, the yet tender cicatrice is unable to withftand this new impetus of the fluids, the confequence of which must be plain and obvious, without adverting to other confiderations. Indeed, too applicable to this and other circumstances of discipline, in the management of fore legs, is that universal maxim, omnis subita immutatio periculofa; for indeed nature is abhorrent from it."-In fhort, if the cure of very bad ulcers on the lower extremities is defigned to be lafting, there must be a greater conformity in the non-naturals,

* Neque ex multa fame nimia fatietas; neque ex nimia fatietate fames idonea est.—Item, neque ex nimio labore fubitum otium, neque ex nimio otio fubitus labor, fine gravi noxa est.

CELSUS, Lib. i. cap. 3.

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as they are called, both under, and after the cure, than feems to have been agreeable to the fentiment, or practice of the generality of furgeons in any age.

The fuppofed importance and neceffity of REST, and an horizontal polition of the affected limb, has long been a fine qua non in the cure of large and old ulcers on the legs, both amongst the ancients and moderns,* and though it may feem bold, yet it is the leading defign of this publication to attempt to fet it afide, at leaft, to propose a method of cure without it, better, more rational, and lafting. And here it will, doubtlefs, be fupposed, that every idea of neceffity, or peculiar indication is excluded, fuch as fever, local inflammation, &c. which certainly demand a temporary confinement; and that the objection is limited to the fimple idea of reft of the part, in order to facilitate, or perfect the cure. Whereas, the frequency, I had almost faid constancy, with which large and old ulcers on the legs are found to

* Stare autem ulceri minime conducit, præfertim fi quis in crure ulcus habeat; imo neque federe, neque ambulare. Verum otium et quies maxime conferunt. HIPPOC. De Ulceribus.

See also Traite des Tumeurs et des Ulceres. Paris, 1759.

"I injoin reft, with a due position of the limb, if not in bed or upon a couch, lying along at least upon some chair or stool, near a level with the trunk of the body." TURNER.

"Above all things reft, and an horizontal polition; which laft circumftance is of fo great importance to the cure of ulcers on the legs, that unlefs the patient will conform to it ftrictly, the skill of the furgeon will often avail nothing." SHARP'S Surgery. (Introduction) p. 38.

return, is greatly owing to their having been healed in an horizontal position of the limb.

HAVING now confidered many, and perhaps the chief of the internal means in general use, together with the position of the affected part, and the diet of the patient, I shall proceed to make some observations on the ordinary topical applications, the more immediate province of surgery.

And the first thing that demands a particular notice, is the long continued use of Fomentations and Poultices, which, however they may invigorate and warm at the inftant, tend greatly to relax the open mouths of the fine veffels, to deftroy the tone of the mufcular fibres, and induce a flabbinefs of the fkin over the whole limb;* thus laying an additional foundation for ulcers, healed in this way, to break out again. The use of them likewise generally obliges the patient not only to reft, but to keep in his bed, + that the limb may be preferved conftantly warm; for where this is not attended to, little good can reafonably be. expected, fince a common poultice, foon becoming cold, is likely, in many cafes, to produce more harm than advantage. What has been faid, it fhould be observed, relates to their long continued use; an occafional recourfe to them, efpecially in the commencement of the cure, and in fome inftances hereafter to be specified, may be sometimes, though not very frequently neceffary.

* See BELL. Part ii. §. 2. + Id.

Without

Without examining particularly the great variety of *Dreffings* that have been in common ufe, it will be fufficient in this place to fay, that mere greafy applications without fome warm and flimulating addition, however proper and ufeful in fimple ulcers on other parts of the body, are liable to the fame objections, and therefore not adapted to old fores on the legs. For though, like the former, they may fometimes, with the affiftance of reft and epulotics, bring the fkin over the furface, they are fure to leave the difeafe at the bottom.

AFTER having thus flated fome principal objections against the ordinary practice, I am happy that experience warrants me in propofing a plan of cure more certain and agreeable, as well as more durable than any hitherto defcribed. Indeed, the fuccefs has been abundantly greater than was at first expected, and its fimplicity cannot fail of recommending it in preference to any other, if it were possefield of only equal advantages. But to fave the trouble and pain of confinement and firict regimen, almost without the use of internal remedies, which in general are not very much relifhed by patients of any clafs, is furely an object highly worthy of attention; fo that very little need be added, if the rationality and fafety of the method can be made equally clear with its certainty and eafe.

IN the treatment of ulcers, two things are principally aimed at, by whatever means we may defign their accomplifhment; first, to bring the fore into a good condition with respect to its appearance,

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its difcharge, and the fenfations of the patient; and then fecondly, to induce its furface to dry up, or form a cicatrice. In order to thefe, in the cure of every deep ulcer, it is neceffary that its bottom fhould throw up healthy granulations, and come up near, or quite to the level of the furrounding fkin, unlefs the ulcer has been attended with great lofs of fubflance, or caries of the bone; but fuch incarnation is here included in the first idea, as it ufually takes place at the time, or very foon after the fore puts on a healthy appearance. To thefe intentions a third may be added, which enters peculiarly into this plan, which is to heal them by fuch means as fhall be most likely to prevent a return of the complaint.

An ulcer is here fuppofed to be unattended with much topical inflammation, or uncommon pain, and without any febrile diathefis in the habit. Here the principal intention is to procure, and keep up a copious difcharge, without any apprehenfion, in general, about the time it may continue, or the effects it may produce; the former will not continue long after the ulcer is become clean, the latter, (it will be fhewn) may be regarded as the very object in purfuit; at leaft, the fame means that have produced and kept up a copious difcharge, will cleanfe the foul furface, liberate the veffels in the part, and occafion a good appearance of the fore, much fooner than any thing elfe, and can therefore produce no manner of bad confequence.*

The

^{* &}quot; I should be unjust if I did not remark, that when these terrible scorbutic ulcers are cured by this method (a suppurative poultice)

The means of accomplifhing these intentions may be ranked under four general heads, External Applications, Bandage, Exercise, Diet and Medicines. Of the first it would be difficult to make any exact, or regular arrangement; but it may be faid in general, that they confist of digestives, detersives, escharotics, and a certain kind of astringents.

In order to ftate the advantages which it has been faid may be expected from this plan, it will be neceffary to examine the feveral articles juft now enumerated, and to obviate the objections that may arife in the minds even of eminent practitioners, againft fo free a use of the remedies proposed; especially as fo much is expected from them, as to occasion the discarding fo many other means which custom has stamped with an almost facred authority.

The Digeftive in most cafes cannot be too ftrong, if not productive of that kind of irritation, which may provoke inflammation in the neighbouring parts; nor is that much to be apprehended, for it is remark-

tice) you may perceive during the cure, the patients countenances, which were generally of a fquallid hue before, to be clearing up daily by the difcharge from the fore, till they come to a perfectly healthy appearance. And this being done without any internal medicines, I lay it down for a maxim in all cafes, that it is better for the patient to difcharge any peccant matter externally from the part, which nature laid it on, than to retract it into the blood, by bleeding, purges, or other evacuations; for by this means, the matter is often tranflated to the lungs, or other noble part : for it is a well known maxim, that ab extra intus redire, malum cfl." FREKE's Art of Healing.

able

able, that very irritating applications to these ulcers fcarce ever induce it, especially, (however incredible it may appear) where exercise is freely allowed; which by its tendency to promote the discharge, so far counteracts inflammation.

The precife form of fuch digeflives, it would be thought trifling to infift upon, as the Pharmacopœiæ of London and Edinburgh for the most part contain them, or fuch as are very fimilar to them; * though both pharmacopœiæ are deficient in regard to a fuitable digeftive for tendinous parts. In other respects, however, fome one of the more active among these prefcribed formulæ, will in a very few days produce a fine furface on an old, and very painful fore, and with the affiftance of exercise, a good diet, and proper roller, will in a variety of cafes, and without any other means, effect a fpeedy and lafting cure; though the patient fhould have been fubject to fore legs for a number of years, and never eafy a month together, after having been repeatedly healed in the ordinary way.

* It may be ufeful, however, just to fay, that the Unguent. Basil. nigr. of the London Pharmacop. as a digestive for ulcers on the legs, is as much preferable to the Basil. flav. as that would be to the Ung. album. And I mention this, and have alfo, in the prefent edition, taken notice of other applications I have found ufeful, in confequence of being informed, that gentlemen who have adopted the plan, and with very good fucces, have been at great pains in making experiments in regard to topicals, before they could be fatisfied what might best correspond with the hints I had formerly given.

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I can foresee no formal objection to be made against any of these digestive, or deterfive ointments. Such made of the warmer gums, balfams and oils, have always been in use among furgeons; and if I have intimated, as I mean to do, that they cannot be too powerful (if calculated to promote digeftion, and induce firm and florid granulations), and that they ought to be longer continued than is commonly done, it is on account of the more inert state, and weaker circulation observed in these parts, and their difpofition to break out again into a fore, if precipitately healed. It is to prevent this, that the discharge is directed to be kept up as long as nature shall be disposed to it, instead of having early recourfe to drying, or healing applications, as they are called, in order to haften the cure ; and for which, in the greatest number of cases, there will be found little occafion on this plan.

But to pais on to things more liable to objection, fuch as very flimulating, and corrofive applications. Here, I with first of all to obviate in part the force of a principal objection, that they occasion pain, (which, however, they often remove,)* by observing, that fuch applications are to be used only now and then; and I can affert, that although they are to be applied in confiderable quantity, they will not excite half fo much pain as might be apprehended; as

* See WISEMAN, On Ulcers with Pain. Chap. iv. Observ. 2. Book. ii.

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they

they are used chiefly to fores in a certain flate, which will very well endure them, and are rendered very tolerable at the worft, by means of that exercise fo continually inculcated. For I am conftantly told by patients to whom they have been the most freely used, that walking always mitigates the pain, which accordingly is feverest in bed, at whatever time of the day they have been applied. Nor ought I to omit afferting, that filling a fore with mercur. corrof. ruber, affords very little more pain, than moderately sprinkling it on the part; besides which, we are to confider that one dreffing in this manner frequently superfedes the necessity of many repetitions of it, in a more moderate way.

Another objection may arife from the flimulus, fuch applications will occafion, endangering inflammation, and rendering an ill-conditioned fore flill more obflinate, by producing a fharp and ichorous difcharge more abundantly corrofive. This is certainly true in a few cafes, of which I fhall fpeak in their proper place, but in a general way, facts prove directly the contrary; fores on the legs require a flimulus,* and it has been faid, are not eafily provoked to inflammation. I have applied the red precipitate to fores exquifitely tender and painful, difcharging nothing but a thin ichor, which has covered the furrounding fkin with heated pimples, and

* WISEMAN observes, that "applications to these ulcers ought to have a temperate heat; and whatever objections" (fays he) " may be made against even caustic applications, where milder ones take no place, we proceed to the fironger."

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fmall ulcers, and that after trying lenient applications to no purpofe; the precipitate has immediately changed the appearance and difcharge of the fores, the furrounding fkin has loft its unpleafant afpect, the pain has been removed, and the ulcer, when fmall, been nearly filled up in a few days.

Befides objections taken from the pain, and other effects of such evident fimuli, it may be farther remarked against the quantity and manner, in which fuch applications are used, as well as the intention itfelf, that large furfaces, being thus repeatedly and rudely deftroyed, and even deep floughs produced in fome of them, is a very inelegant mode of dreffing an ulcer, and has more appearance of the farrier, than the furgeon. I shall not on this occasion stay to compare it with the actual cautery, very frequently in the hands of the former, and not altogether laid afide by the latter, but refting fatisfied with the evident advantages arifing from the means recommended, must urge the necessity of maintaing, in many cases, a new furface; without which, though the ulcer may fometimes heal up, under strict regimen and rest, it will most probably break out again when the patient returns to his ufual diet and exercife.

Befide the arguments that have been offered in defence of fuch applications as create a more than ordinary irritation, or feem difpofed to increase pain in the ulcer, there are not wanting obvious facts to fupport them; it being universally acknowledged there are many cafes, even where a kind of fpurious in-D 4 flammation

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flammation* attends, in which they prove more fpeedily useful than any other applications. I might particularly inftance the fmall ulcers on the gums, and infide of the lips, faid to arife from an affection of the flomach, which are generally cured in a few days, by a little burnt allum, a flight touch with the lunar cauftic, or a drop of spirit of sea-falt. Whereas, holding warm milk, or any other lenitive, for a much longer time in the mouth, and frequently repeated, though foft and pleafant to their tender furface, offended even with the ftroke of the tongue, would have little or no tendency to heal them. So alfo the true fcurvy on thefe parts, will bear, by degrees, the undiluted fpirit of falt, + and is cured by it, when bland applications would increase the complaint. It is also well known, that fome fmall ulcers upon other parts of the body, (and even affections of the eye-lids) which are apt to furnish

* I have made use of this term from a conviction, that there are frequent appearances of inflammation, as to colour and heat, where the action of the parts affected is very diffimular to that always met with in true inflammation. Of this fpurious kind may be ranked Etyfipelas, the treatment of which, it is well known, ought to be materially different from that of the true phlegmon—But the fubject is not proper for farther discussion in this place, and would lead me too far; though it may be neceffary the reader should keep the distinction in view, in regard to various passages, as well as the practice frequently inculcated, in the following pages.

+ See VAN SWIETEN'S Comment. on BOERHAAVE, and LIND, On the Scurvy.

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an almost caustic discharge, and are therefore intolerably painful, and difficult of cure under lenient applications, are frequently dried up in a very short time, by a few slight touches of the lunar caustic; which by destroying some little inflamed gland, removes the source of the evil at once.

In regard to the bracing, or aftringent applications I have mentioned, the propriety of them will appear beft in their proper place. It will only be neceffary at prefent to remark, that thefe aftringents are different from those in common use, both because they do not leave a dryness on the skin, and because they are of a very detersive nature; neither are they made of such a strength as to suppress the discharge, but rather to brace the surface of some particular ulcers: besides, the use of them is not constant, and is seldom long continued.

I COME next to the fubject of BANDAGE.—It may be an empirical, but is no bad argument, when the integrity and common fenfe of the fpeaker are not fufpected, to fay, that facts are flronger than reafoning; they are flubborn things even to a proverb, and they fpeak in favour of very tight bandage. I have applied it to the corpulent, heavy and inactive, to the young of an inflammatory habit, to the aged, to the pale and leucophlegmatic, nor have ever repented the ufe of it when accompanied with exercife; which every one will fee, has fome tendency to counteract the poffible ill effects of fuch applications to the extremities. It is true, we have known tight rolling and the laced-flocking prove hurtful to fome people,

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people, when applied to large, hard fwellings of the leg with varicole veins, and have been repeatedly followed by fuch complaints of the ftomach, as have made it neceffary to lay them afide, though the limb has been greatly benefited by their ufe. But this difadvantage does not always take place even in thefe cafes, and the objection is greatly, if not totally removed, as I have had the cleareft proofs, when there is a fore on the leg; the difcharge from which, cannot but tend to obviate all the apprehended ill-confequences:* and whilft that is, on this plan, encouraged

* See WISEMAM's Surgery, Book ii. Chap. 4. Obferro. 1.

Although for very obvious reafons, + I have been unwilling to adduce any cafes of my own, in fupport of my opinion, yet I am inclined to think the following is fo fully in point, in regard to the difference made by the prefence of a fore, where tight bandage is used in difeafed and difordered limbs, as well as refpecting the fafety of healing up fome ulcers in very fufpicious habits of body, that I have been prevailed upon, in this inftance, to wave my prejudices against introducing cafes on disputable points. To avoid breaking in upon the fubject, however, I have thrown it into a note, that the reader may pass it over if he pleafes .- A young woman, whole mother had been afflicted with a painful tumor and hardnefs of the leg, a fcirrhus in the breaft, and afterwards died of a cancer in her mouth ; had herfelf a fimilar complaint of the leg from the age of eight years. On the first appearance of the menses, this became more painful and enlarged, and foon after, confined her for fome time to her bed ; it was then fomented and poulticed, and the was let blood and purged, which took off the inflammation, but the hardnefs

+ Aut famam sequere, aut sibi convenientia singe, Scriptor- HORACE, de Arte Poetica,

raged by digeflives and exercife, it will abate only in proportion as the ulcer diminifhes in fize; which, as will be fhewn prefently, is permitted, rather than compelled to dry up.

Befides

hardnefs and tumour remained as before. A linen roller, and afterwards a laced-flocking were applied, which kept it eafy for three or four weeks, but her flomach being affected, fhe was obliged to lay them afide. In a fhort time, the leg became painful again, but did not influme for fome years; when fhe was again confined, and treated as before, but never got rid of the hardnefs and fwelling, nor was ever long together perfectly free from the pain.—She was always eafier after the flow of the menfes, and in moft pain about the return of that period.

At the age of two and twenty fhe married, and foon becoming pregnant, her flomach was much indifpofed, and fhe fuffered in that way for feveral weeks. During this time, her leg became abundantly better, the hardnefs and tumor abated, and fhe could bear to prefs, and beat it with her hand, in a way fhe had never before dared to attempt. About the end of the fourth month of geflation, her flomach complaints confiderably abated, and her leg became inftantly painful; and in two days was very hard and enlarged, was confiderably inflamed, and had a little oczing from under the fkin. At this time I was confulted, and was informed that her fituation in life would not allow her to reft, or keep the leg long together in a horizontal pofition.

Upon confidering the whole of her cafe, it appeared very prudent to prevent complete ulceration, but (as fhe could not keep the part fupported) I was fearful I could not prevent it; though had her habit of body been different, I fhould have had no fears about treating the fore like other inflamed ulcers on the leg, whenever the fkin fhould compleatly give way. I therefore did what I could to prevent the farther cracking of the fkin; but without abfolute reft, this was fearcely to be expected, nor is it certain, even Befides thefe things, the kind of roller is to be confidered, which ought to be made of the thinneft *Welch* flannel, not thicker than coarfe linen, with advantages no linen can have; it not only being fofter, fitting eafier,

even that could have prevented it. It accordingly gradually became fore, and was painful to the higheft degree, fo that fhe often fat fcreaming out aloud for hours together, unable to put her foot to the ground, though the foot was dreffed only with ceratum alb. or a faturnine cerate, and fometimes with different kinds of poultices; and fhe kept the limb as quiet as her fituation would allow of.

Not knowing what to do better, I determined to try my own method, being fatisfied that tumid legs will often bear rolling when affected with ulcers, though they would never endure it before. I dreffed it with a powerful digeftive, and rolled it up moderately tight, though it was fwelled to a greater fize than any leg I ever faw; notwithftanding it had, for fome time, been refted great part of the day on a chair. It had broken into a fmall, foul fore, of an irregular fhape, without the leaft appearance of red flefh, and the fkin was difcoloured half round the leg, which was exceedingly varicofe; it difcharged a fcalding ichor, that deftroyed the fkin wherever it ran, increasing the fize of the fore, and was getting daily more painful.

Having dreffed it as above mentioned, fhe was now permitted and encouraged to walk, and became eafier from the hour the roller was applied, which continued to agree perfectly well. The leg remained pretty eafy throughout the cure, except for fome time after it was dreffed, when fharper applications had been ufed, but continued to fpread till the ulcer became clean, and a copious difcharge was produced ; which did not exceed feven or eight days at the moft. After this, it was no longer painful, difcharged laudable pus, and in about a fortnight's time, began to heal very kindly, and continued to do fo till it was perfectly well.

Like

eafier, and making no plaits on the fkin, but is elaftic to a very confiderable degree. This is greatly increafed by its being torn acrofs, and fewed together felvagewife, (the hard felvage-thread being first cut off) whereby

Like many other ulcers, when the patient is permitted to walk, it was always most painful in the night, for which reason, the was obliged to take occasionally half a grain, or a grain of extractum thebaicum at going to reft ; which was fufficient to quiet the pain, and feemed to produce a very good effect on the fore. At the time this was the most painful, she was not only permitted, but compelled to walk out, and always came home eafier, though the often walked farther than fhe had been able to do at a time for a number of years; yet the leg never fwelled, but evidently grew fofter by the exercife. In this cafe, as well as in a variety of others I may afterwards specify, the application of precipitate, though it fometimes gave great pain for an hour or two, proved an occasion of speedier ease on the whole, as it destroyed the foul furface, produced a laudable difcharge, and brought the fore into a defirable flate much fooner than it could otherwife have been. When this application was made use of, the ulcer discharged a cauftic fanies, that corroded wherever it ran, and the furface was fo fenfible, that the patient could not endure the flighteft touch of an armed probe, to wipe off the matter. It was only a few weeks in getting well, the hardness and tumor of the limb fubfiding as foon as a copious fuppuration took place; and before the ulcer was healed, the leg was, I believe, quite as fmall as the other, and has continued fo ever fince, though there was no remarkable return of the ficknefs, and fhe has now lain-in above a twelve-month. Neither did gestation afford any impediment to the cure, nor have I in all the cafes I have met with, ever taken notice of fuch an effect, though fome gentlemen of character have, and

whereby the roller is made to yield to every motion, and varying shape of the limb, and admits of, and affifts the patient fo much in walking, that I have known perfons with fuch painful fores as prevented their standing upright, find immediate relief in this respect, and be able to walk with comfort, from the first hour they were put on. To this fact numbers can teftify, and it is from experience I can fay, it will be found on fmall improvement in rollers for the legs, that flannel is fubflituted for linen, and that they are made up in the manner here recommended. I should neither speak with such confidence, nor enlarge as I have done about trifles, having feen enough to prevent my depending on a few fortunate cafes, or venturing to publish my thoughts to the world, as containing any improvement, if not fufficiently fupported by facts, or if there were any room left to doubt, upon what fuch favourable events had turned-Perhaps thefe, and other advantages + of this bandage, may be explained on the following principles.

I. The moving foft parts are not only kept warm, but receive a confiderable and conftant fupport, and

and much has been observed by authors on this head.—" Impregnantibus ulcerum curatio difficilis, propter retentionem superstuitatum earum, propterea quod ipsarum menstrua retinentur."

AVICENNA, de Ulceribus, Lib. iv.

This perfon has fince the former edition of this tract lain-in a fecond time, and has enjoyed good health, the leg alfo continuing perfectly well.

+ See page 77. Note.

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their action is rendered more general and regular : we may even fuppole that fome part of the effects of action, is transferred upon the bandage, or its operation fo modulated, that it is not wholly exerted on the fkin.

II. The blood and lymph are determined to a more equable circulation.

III. The growth of fungus is confiderably reftrained, and callous edges are prevented, or removed.

IV. The furrounding fkin is brought forward on the fore, and the feveral parts are brought into contact; and confequently, a lodgment of matter is lefs likely to take place.

V. Compression warms, suffains, strengthens; and by repelling from the adjacent tumid parts, derives from the system greater powers of healing, to the seat of the ulcer.

VI. The compression disposes the fore to heal more fmoothly; and these advantages which are very confiderable, are increased, as hinted before, by the free use of the limb.

I have faid fo much on this head, becaufe this, as a general practice, is fo much out of fafhion, though once in great efteem with eminent furgeons, and particularly *Wifeman*, whofe contrivance the laced-flocking feems to have been. The antients, indeed, made use of rollers much oftener than we do, and apparently to confiderable advantage, but they speak of them only as retentive bandages, or for bringing divided parts into contact, and to affist the the more speedy closing up of deep ulcers after a proper digeftion; or at the moft, as expulsive, to prevent fluxion to a part; but their bandages were but ill-calculated to answer the end, and were never applied fo tight as Wifeman recommended, nor with particular reference to the legs. Wifeman himfelf, however, does not appear to have underftood all the advantages he received from the use of his lacedflocking, as he feems apprehenfive that the cure of ulcers on the legs obtained by this means, were lefs likely to ftand, than those effected without it. He appears, therefore, frequently to have recommended the flocking and rollers on the fame principle with reft, and an horizontal polition of the limb, to prevent what is termed a defcent of humours to the fore. and the ædematous fwelling that often accompanies these ulcers. But his reasoning was certainly not fo good as his practice, and had his bandage effected nothing beyond his intentions, his fuccefs had been much lefs than it was. The roller has many other uses befides counteracting the disposition to cedema, (to which the lower extremities are peculiarly liable), and one that I must beg leave to notice in this place, arifing from the manner in which the filling up of every deep ulcer is effected. To this end, there is not only a trifling elongation of the capillary veffels in the wound, but the parts contiguous to the ulcer are found to wafte, or diminish confiderably; infomuch that Meffrs. Fabre and Louis,* eminent

> * Memoires de l'Académie de Chirurgie, Vol. iv. furgeons

furgeons in *Paris*, attribute the whole of this process to what they call *un affaisement*, or a wasting away of the extremities of these capillary vessels. This, indeed, is by no means the whole of the case,* though it is principally hereby, that the cicatrice in deep ulcers approaches the level of the furrounding parts, when such wounds are perfectly healed; and this, (as hath been mentioned already) ought to be the case in newly healed ulcers; and when it is not, the cure in general is not very likely to stand.

As this is a circumftance evident to every attentive practitioner, I cannot help obferving, it is matter of fome furprize, that rollers are not more frequently ufed than they are, and a greater compression made by them, not only for fores on the leg, but also on many other parts of the body; as it is probable they would not a little contribute to their cure.

There is only one inftance, however, that I know of (common incifed wounds excepted) in which this practice has been much attended to, which is that of the venereal buboe; though even in this, the practice has not been general. But Mr. *Bromfeild*, I know, has conftantly had recourfe to it for that ill-conditioned fore, which it is well known is frequently very troublefome to heal, after the venereal virus has been deftroyed. Such, however, after refifting a variety of

* That there is a power of extension or developement in the veffels of a wounded part, is evident from the vast fungus that will shoot up in some ill-conditioned fores, and in various excrefcences, which are furnished both with blood-vessels and nerves.

dreffings

dreffings and alterative medicines, have been prefently healed upon the application of a very tight bandage; for which information, when I first began bufinefs, as well as many acts of kindnefs, I am indebted to that gentleman, to whom the public well knows its obligations in matters of greater importance.

Upon this head, I am much indebted to the ingenious author of a Treatife upon Ulcers before-menmentioned, * whofe reafoning long ago perfectly fatisfied me, as to the fafety and advantages of tight bandage, and determined me boldly to pufh the experiment, till I fhould find reafon to change my opinion; which this publication is proof enough I have not done. But the laced-flocking fo much recommended by *Wifeman*, falls far fhort of this double intention, and is every way inferior to the flannel roller, which lies much fmoother, tighter, and makes a much more even, pleafant, and fleady compreffion, than can be made by any other contrivance. + By this means, as

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* BELL, Part ii. § 2. See alfo CLARE, On Abscess.

⁺ WISEMAN, indeed, almost every where prefers the laced-stocking to the roller, giving for a reason that the roller makes a less uniform preffure, and even bruises the parts: but however this may be with a linen bandage, no laced-stocking can be so fmooth, firm, or so pleasant as a stannel roller. The great advantages of which are now so evident to me, that however necessary furgeons may think rest to be in some very bad cases, however attached to particular diet or dressings, or prejudiced against any part of this work; I would, entirely upon principle, importune them to add

it has been faid, the growing flefh in a healing wound, is eafily kept within bounds, and that troublefome luxuriance is prevented, of which a more moderate degree is always required; and for the want of which, it will be fhewn, fores on the lower extremities do not heal fo readily as on most other parts of the body.

As fo much is expected from rolling, it will readily be prefumed, fome care is required in doing it, and, indeed, the application of bandage is no contemptible branch of the profession; for though I do not mean to hint, that fo much judgment or memory is requifite for rolling up a leg, as in the application of bandage to many other parts, yet great attention is neceffary. The roller must make a due preffure on every part, or fome finus may unexpectedly be formed; but of this there is not the least danger, if it be applied with care, and the proper directions obferved, though it be drawn ever fo tight; neither will it leave fo much rifing on the fkin as a linen one, which also will give confiderable pain if the patient be permitted to walk. The warmth likewife which the flannel communicates to the limb, efpecially in

to all thefe, the conftant use of a flannel roller, and can affure them of far greater fuccess than they have ever had, in every user of the lower extremities. Its advantages, however, are not confined to such cases, for I may venture to affert from farther experience of its utility, that a flannel roller is greatly preferable to a linen one, in almost every case where a roller is had recours to, and particularly after amputations; especially in the improved method, as Mr. Allanfon's may now justly be flyled.

F. 2

cold

cold weather, has long appeared to me a matter of very confiderable advantage.*

The manner of applying it, it has been faid, requires nothing but care. Every one knows that tight bandage fhould begin at fome diftance below, and be carried fome way above the parts it is chiefly defigned to comprefs; otherwife, the matter attempting to iffue from the ulcer, being confined by the tight preffure upon it, will force a paffage wherever it finds a lefs refiftance, and thus convert a fimple ulcer into a fiftulous fore.

But for ulcers on the legs, efpecially where exercife is allowed, this rule fhould be confiderably extended, and the bandage (which ought to be about four inches wide) fhould begin as far below, and be carried as much above the affected part as the limb will allow of. To this end, it fhould commence at the extremity of the foot, where it should be drawn very tight, (the end of the roller first croffing the inftep) and after being brought two or three times over the ancle, fhould afcend fpirally (the edge of one turn of the roller being not more than about an inch from another) till it rifes to the calf of the leg. Here the stricture ought to be lefs, to permit a free action of the muscles, and the turns therefore be fomewhat more diftant ; in which manner it must be continued up to the knee: above this part it would be improper to carry it, though recommended by con-

* See BELL, On Ulcers. Part ii. §. 2.

fiderable

fiderable authority, * and that for most obvious reafons, where exercise is both permitted and injoined.

I have been thus particular on this head, from the great confequence I know it to be of, and hope it will not on this account be imagined that I affect any particular art in the performance. Every furgeon well knows of how much confequence it is, that rollers be properly adapted to the end for which they are defigned, and how much trouble may arife from great compression being made above or below the precife part, for which fuch compreffion was employed : all fuch are capable of doing it well, if they will do it with care, which is the thing I mean to inculcate; as otherwife, the patient whofe leg is rolled tight, will fuffer great pain, and the furgeon be long difappointed in the cure. However trifling these directions may appear, experience will prove them to be otherwife-A very moderate fhare of knowledge of the first principles of fcience, were fufficient to guard me from infifting on trifles; upon which the art of healing will never depend. But as there are many young men always in London, who come profeffedly to learn, and fome of them with very little previous education in furgery, for fuch at leaft, more particular directions may not be wholly unneceffary.

WITH regard to EXERCISE, it may poffibly be faid, that this in a great variety of cafes, (even without the prefence of fever, or topical inflammation)

* Medical Obferv. and Ing. Vol. iv.

E 3

cannot

cannot fail to produce, or increase pain, especially where flimulating applications are used. And that in all cases, (though no pain or inflammation should follow) it must have a natural tendency to retard the cure, if not entirely to hinder it, both by disturbing the tender granulations as they rise on the sore, and preventing that process of nature by which they dry on the furface, and produce a cicatrice.

Of this fome notice has been taken already, as far as pain is concerned, and it has been faid, that exercife frequently removes it. In other refpects, though fuch reafoning may be very juft, as it regards many wounds on other parts of the body, it has not a like application to old fores on the legs; where a more than ordinary ftimulus is required. The latter are never fo expeditioufly cured, as those on superior parts, in whatever way they are treated; but I am fatisfied from a variety of facts, will in many inftances heal fooner with exercise than without it. It is acknowledged, that after the operation for the harelip, and every other fimilar cafe, where parts are to be united by the first intention, they must not only be brought into contact, but be kept fo for fome time, in as quiet a state as is possible, or they will feldom unite firmly. But how very different these cases are, it can be fearcely neceffary to point out, and I have mentioned them only for the better clearing our way to the precife point on which the argument turns. For though the lips of fuch wounds will not grow together, whilft they are kept conftantly in motion, yet both lips will be covered with fkin in a very few

few days, and in this fenfe, a healing of the wound is produced; and it must be very great motion indeed to prevent it. Now this is the kind of healing in question relative to ulcers on the legs, and if motion of the part affected is capable of preventing it, (where, a proper bandage is constantly worn) * it must either be such, and to a degree that would prevent, not the union, but the healing of the raw edges of the lip I have mentioned; and surely no common action of the lips will do this. Or secondly, it must be effected from the exercise for greatly increasing the discharge, as to prevent that disposition to dry up,

* It may not be useles in this place, to make a few general obfervations on mulcular action, with a view to point out the fource of fome of those particular advantages of tight bandage before noticed, + where exercife is ufed. In mulcular action, there is always an accurtation of the moving fibre, and a general enlargement of the muscle. This increase of bulk is not equal, but is greater about the belly, than at the extremities of the mufcle .- Difeafe in a part may render this action liable to great irregularities-Fascia, and annular ligaments, &c. prevent unequal contraction, and its manifest inconveniencies .- It is true, we don't find the muscles acting in fuch a way, as to prefs from within outwards, to a degree capable of forcing up the fkin very confiderably; but they can, neverthelefs, pull upwards and downwards, with fufficient force to derange a healing wound .- Now bandage effectually prevents irregular action, and will keep the fkin from moving confiderably when the mufcles act, as well as diminish the fwell of those that lie immediately under it .- These are precisely the points aimed at; and that bandage will answer these intentions, is very evident, both from reafon and experience.

+ See pages 62, 63.

which

which ought to take place in the extreme veffels of the fore, whereby it has been faid, the cicatrice is formed. And if the quantity of difcharge be the objection, in regard to ulcers on the legs, it proves all I contend for ; it is defirable if it be good, and the want of it is, during the greatest part of the cure, the grand obftacle in our way to the healing of the fore. * For those on the leg, and especially the most painful ones, either discharge very little, or abound only in a thin and excoriating ichor. Nor can either of them be changed for the better, but by fuch means as shall reftore the due tone of the veffels of the part, fo as to condenfe the loofe, or unfold the callous texture of the furface, and thereby open a way for the fecretion of laudable pus, frequently the beft dreffing that can be applied to a fore.

Now, exercife contributes to this, inafmuch as it tends to promote a free and bold circulation of the blood, to open the fmall veffels, and reftore a free paffage in the fyftem of lymphatics, whereby it increafes the ftrength and vigor of the limb. On this account, the difcharge can never do harm, nor the exercife that promotes it keep the fore improperly open; for if the habit in general have nothing particularly amifs in it, and the circumflances of the part be fuch as have been defcribed, the difcharge will gradually abate as the ulcer diminifhes, and its fur-

* L'ulcere sec, qui ne suppure pas, ne peut pas se deterger, or tout ulcere qui ne deterge pas, ne peut pas se guèrir.

Traité des tumeurs et des Ulceres. Paris. face

face will always dry up in a reafonable time. Such exercise of the part is not, indeed, neceffary to the healing of fores on the upper extremeties; but the difference in the lower ones, and particularly the inferior parts of them, is greater than has been generally imagined, or has, at leaft, had any influence upon practice. Nature, therefore, ever attentive to the good of the whole, and provident for every defect, has wifely supplied the natural deficiency arifing from their diftance from the heart, in the beft way it was poffible; befides, therefore, that fhare of labor they have in common with other parts, it has not only imposed upon these (as was hinted before) the weight of the whole body, but has defined them to be the inftruments of this conveyance from one place to another.

But on this fomething has already been faid, and I may have ftill farther occafion to infift as I go on; fuffice it to hint here, how greatly prejudicial it muft be to general health for any perfon, accuftomed to labor and exercife, to be confined for a length of time in an inactive ftate, and the greateft part of it, in an almost horizontal position.—Can it then be neceffary in the cure of ulcers on the legs, to deprive the part affected of those very advantages which nature defigned for its prefervation in vigor ?* Has it the most

* Usus corroborat, otium autem colliquet. HIPPOC. Med. Officin.

This observation is univerfally allowed, and is remarkably evident

A TREATISE UPON.

most remote tendency to perfect the cure; I mean, to make fuch a cure as shall fland ?—If not, certainly our art is materially defective, or we are faulty in the use of it; for is not a perfect cure much more likely to be effected, under such exercise of the limb as shall afford the natural stimulus, if the certain evils attendant upon that exercise can be obviated ?

It is granted, however, that exercise may in the case of some large fores, to a certain degree, retard the healing of ulcerated legs, for the same reason that very great motion might be hurtful to fores on other parts. But instead of being otherwise injurious (by occasioning fluxion of noxious humours, and I know not what other evils faid to be peculiar to the lower extremities), it is really useful in every other respect if a proper bandage be applied, and is therefore advantageous upon the whole for every ulcer on the legs, as I hope hath been tolerably proved; and particularly, as it hath a direct tendency to prevent the fore breaking out again.*

Many

dent in the vall influence that great exercise of the extremities is observed to have in watermen and porters; the former of whom have usually large flrong arms, and flender legs; and the latter thick muscular legs, almost without exception, if they are in health.

* How far the continuance of a roller, which I underfland a very refpectable hospital furgeon advises to his patients, may prevent a return of the complaint, I have no right to attempt to decide,

Many, however, would be the difadvantages of motion in ulcers of the legs, if they were covered only with a common poultice, or left merely to the dreffings that are ufually applied to them; but upon the plan here recommended, they are conftantly fupported by a firm, foft, and yet elaftic bandage or roller, which in very many cafes, as infallibly counteracts every poffible inconvenience arifing from motion, as the motion itfelf, thus fupported, has a manifest advantage. And though fome objections in turn might, with equal propriety, be made against the remedy itfelf, or the conftant application of fo tight a compression as has been recommended, yet all fuch objections, it has been remarked, are greatly obviated by the use of exercise.*-I am aware, that

cide, fince I have never injoined reft, in any inflance, fince I knew how to effect the cure without it; though, indeed, an hofpital is not the propereft place to determine the point, as the patients are often never heard of after their difcharge: we know, however, how very common it is, for large, or old ulcers, healed by means of reft of the part, to break into much worfe fores than before they were first healed.

* A free use of the limb has been so generally exploded amongst regular practitioners, that it has been more necessary to infiss thus largely upon it; and this appears, not only from its general difuse, but also from sufficients arising in the minds of fensible writers, after men of such experience and reputation as Mr. Else feem to have approved of it. ‡

† BELL, On Ulcers.—The following fpecimen will fhew how Arict an adherence to reft, authors have required, "Il faut faire tenir

Medical Observ. and Inquiries, Vol. iv.

that fuch argument appears to manifest disadvantage, and may be thought to be little more than a *circulus in circulo*; however, it is confonant to various maxims that were never disputed : for instance, as a very nourishing diet would prove hurtful, where proportionable exercise were neglected, and vice versa, hard labor without adequate nourishment, but taken together, contribute to the health of the subject; so clearly has experience proved to me, the salutary effects of tight bandage and exercise united, in regard to the ulcers in question.

Notwithstanding what has been here and elsewhere advanced on this subject, I have been somewhat furprised, fince the first appearance of this tract, to find that so attentive and judicious a practitioner as Mr. Bell, should in the last edition of this treatife upon ulcers, so strongly inculcate the necessary both of lenient applications and rest, in the cure of ulcers on the lower extremities; without offering one argument in support of the latter, or attempting an answer to those I had advanced. Having barely mentioned my opinions, he observes, (p. 203) that he has tried every method that has been published to the world, and has succeeded in all of them, but that he finds no cures so the solution of the

tenir la partie malade dans le plus grand repos ; le moindre mouvement est capable d'y faire des teraillemens, qui augmentent la douleur et la suppuration, detruisent les chairs tendres qui renaissient, et brisent les premiers linéamens de la cicatrice." Traisè des Tumeurs et des Uleeres.

that

that prove fo permanent, as those effected by mild dreffings and reft. Now, fuch fentiments, efpecially the latter, appear to me very extraordinary indeed ; but being only affertions, I may, with the firicteft regard to truth, venture in return to affert, that befides all that has been adduced as evidence, in a way of reafon and argument, my own experience, and that of numbers of others, in hundreds of inftances, runs directly the contrary way. And I venture farther to fuggeft, that if Mr. Bell will be at the pains of dreffing his patients with his own hands, will roll up the legs conftantly himfelf, and by the due ule of active applications will procure a found furface to ulcers, he will meet with many that will be healed fooner, numbers more certainly, and all more permanently, than by mild dreffings and abfolute reft. But if furgeons will make use only or chiefly of bland applications, which it is granted may fometimes more fpeedily induce new granulations, as Mr. Bell has afferted, but will never induce found ones in diftempered parts, or on a foul furface, they must expect fuch a cicatrice, however induced, in a fhort time to give way. And I may just observe in this place, that I do not wonder Mr. Bell fo ftrongly infifts upon the neceffity of inferting an iffue previous to the cure of every ulcer of long flanding,* though he confiders them merely as local affections .- As iffues are not likely however to do any harm, and are fometimes uleful, it were needlefs to urge many arguments

* Page 230.

againft

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against fo general a fentiment; neverthelefs, iffues being always troublefome, and to many people very difagreeable, it is but justice to fay, I rarely propose them, and have not, in any view, experienced the bad confequences of the neglect.

THE DIET recommended in this method, may be as exceptionable to fome people as any thing that has been advanced; but fuch are defired ever to keep in view the whole of the plan, one part agreeing with, and affifting the other, and all of them confpiring to the grand end in view, which is to heal fore legs in fuch a way as fhall tend to perfect a cure. And, indeed, were it not for the depending fituation of these fores, furgeons would fcarcely have thought of the propriety of a fparing, or low diet,* for fo many months together, in the cure of them; nor yet of that frequent recourse to purging, without which the healing up of old, or large ulcers is never attempted. For these fores, it has been faid, are not ufually attended with inflammation, and where they are, it is feldom difficult to be removed. Indeed ulcers of this clafs, are more generally to be met with, in weak, relaxed conftitutions, than amongst ftrong plethoric subjects of an inflammatory habit, and are in fuch circumstances more difficult to be cured.

But when a way is difcovered to prevent the illeffects of exercise, and the descent of humors, as it is

* See BELL, Part ii. § 2. where the ingenious author declares himfelf of this opicion.

called,

called, there can be no objection, (an evident flate of general, or local inflammation excepted), to any diet that would be found proper for fuch people at another time; and which most are fure to indulge themfelves in, as foon as the furgeon has taken his leave.

The above ill-effects, it has been already obferved, are obviated by a proper bandage, and I hope it has been made appear,* that the feat of this ulcer being on a depending part, is not the chief hindrance to a cure, but its being an extreme part of the body, in which the circulation is lefs vigorous, and the vires medicatrices naturæ, for thefe reafons, more languid and ineffectual.

If thefe things are allowed, many advantages muft arife from fuch a diet, \uparrow as hath a direct tendency to fupport the patient in full health, and to affift the powers of nature to create, and fupport a difcharge of laudable pus, the conftant forerunner of a cure in every curable ulcer.

THE laft article mentioned relates to MEDICINES, of which fome notice has been taken already, but chiefly in a way of objection to fome in general ufe; it will therefore be proper here to enlarge a little on the fubject, wherein I hope not to forget the caution its importance requires. I know how eafy, and how common a thing it is with fome writers, in order to

* See Introduction, p. 8-13.

+ Perhaps falted meats, and fpirits, are the chief things to be

fupport

fupport an opinion, to bear down their opponents on every occasion, by declaring facts to be on their own fide; which they often do not, and fometimes, indeed, are not permitted, to produce. Such an argument, therefore, feldom comes with proper teftimonials but from hospital practitioners, or must, at least, expect to ftand or fall, according to the fhare of credit due to the writer. As far as that can go, however, in the prefent inftance, I am encouraged to fay, experience has led me to fufpect, that lefs is to be hoped for. and much lefs is required from medicines, than is generally fuppofed; ulcers on the legs being, in general, mere local complaints, not connected with any particular difease of the fystem. It is possible, I may be fomewhat fingular in these opinions ; whilly others have produced their experience to prove, that fore legs can only fafely be cured by internal remedies. It is, however, by no means, my intention to affert, that medicines are never neceffary for thefe, as well as other fores; but that they are frequently prefcribed in a very indeterminate manner, and their effects are confequently uncertain. But fhould the patient labor under the true fcurvy, or the ulcer follow the fuppreffion of fome periodical, or critical difcharge, or the difappearance of a long continued eruption on the fkin; thefe, befide other more common complaints, fuch as evident fymptoms of a venereal infection, the presence of fever, &c. will constantly call for the phyfician's affiftance, who will be at no loss to pursue a rational intention. In short, whatever is obvioufly wrong in the habit is to be corrected, but

but where there is no peculiar indication, I neither know how to prefcribe, nor to expect much benefit from medicines. If furgeons will reflect for a moment, they will perceive the import of this observation; let them confider only what are the medicines ufually directed, which, perhaps, excepting only the bark and cathartics, are administered under the idea of alteratives, by which fome people intend a clafs of medicines that will effect a certain change in the habit, without fo much as an idea, what that change is to be. The patient has a fore ; it looks ill, that is, it is not deterged, or will not continue fo; the matter discharged from it is bad; or the ulcer is not difposed to heal up .- Let every thing be done in fuch a cafe, that has a tendency to mend the appearance of the fore upon rational principles, and which generally is done for fores on other parts of the body. Let recourfe be had to fuitable dreffings; let the patient enjoy the air, moderate exercife,* and a proper diet; let a tight bandage be applied to brace and contract the fore, to keep down the fungus, remove callous edges, and prove a tonic to the part. If these things fail, such medicines should be administered as will brace the fystem, or correct its manifest defects-farther than this, I must fay again, I have neither known their use, nor that frequent want of them which others complain of .- +

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Not-

* CELSUS. Lib. vii. Cap. 3.

+ By a modern French writer on this subject, we are advised, before the healing up of old ulcers, to correct the vitiated blood, and

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Not that troubling patients with ufelefs medicines, and the little unneceffary expense, of importance, indeed, to fome people, are the principal objections on this head ; but the great mifchief is, that in most cafes, the furgeon's thoughts being hereby led off to a wrong object, he is diverted from an attention to the true means of affording relief. Inftead, therefore, of making the most of the particular habit of each individual, by proper topical applications and general remedies, he is contriving how he may remove fome imaginary, or at the most, fome unknown complaint, or to cure a manifest dyscracy, for which he is not likely to find an adequate remedy. But fhould the time come, when fome real alterative, or peculiar tonic shall be discovered that may co-operate with the furgeon's defigns, I shall be as ready as others to embrace it.

Wherever ulcers are connected with evident difeafe of the fystem, it has been granted, the affistance

and to purify it from the foreign leven with which it is infected. To this end he gives us fix general indications.

⁴⁴ 1. Si le malade a la verole, le fcorbut, ou les écrouelles. 2. Si
⁴⁴ le fang eft chargé de bile. 3. Si le fang eft âcre et falé fans
⁴⁴ être chargé de bile. 4. Si le fang péche par être trop épais, et
⁴⁴ trop refineux, 5. Si l'on juge que le fang foit trop féreux,
⁴⁶ 6. En générale, il faut, dans tous les cas, purger fouvent le
⁴⁶ malade, mais le purger doucement ; lui donner tous les jours
⁴⁷ une ou deux prifes de quinquina; et lui faire obferver un regime
⁴⁶ exact, tant pour la quantité, que pour la qualité de la nou⁴⁷ riture.⁴⁷—If the reader can acquire any practical knowledge
⁴⁶ from the moft of thefe indications, I muit contefs he has greatly
⁴⁶ the advantage of me.

of

of fuitable medicines will be required; all that I mean to infift upon is, that this is not generally the cafe. The true fcorbutic ulcer, attended with fpongy gums, and other marks of putrefcency of the fluids, does not very often occur in this Ifland, or at leaft in the neighbourhood of the metropolis; and the fcrophulous very feldom attacks the legs in form of ulcers. The venereal, indeed, more frequently occurs, or at leaft, ulcers will partake of the poifon, and I have feen alfo the cancerous, or fomething very like it; but as there will ever be, in thefe cafes, fomething characteriftic to their caufe, the furgeon can feldom or never miftake them.

There are, indeed, many foul ulcers, which when of very long ftanding, are frequently affifted by medicine; but fuch generally attack the poor, who have either injured the conflictution by hard drinking, or on the contrary, have been in want of almost the neceffaries of life. In fuch cases, the bark is a tonic, (which is fometimes improved by the addition of fal martis) is of wonderful efficacy, and ought in many cases, to be given in much larger doses than it usually is; and in a few inftances, for a confiderable time.

There is another medicine, which from its popularity, feems to claim an attention, and perhaps has been of fervice in fome cafes, though I am not yet fatisfied the fores would not have got well without it. This is the corrofive fublimate, which in very large, and old fores, has, in compliance with cuffom, been frequently administered with feeming fucces. But it is often improper for labouring men, who are F_2 much

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much out of doors, and for obvious reafons, more efpecially in winter. However, where these objections do not equally take place, every furgeon of experience will judge for himself, what advantages he may reasonably expect from the use of it.

Befides the cicuta, opium, and other internal remedies already hinted at, I shall here mention other three-a ftrong decoction of the woods, lime-water, and emetics. The first will be of fervice chiefly in cafes of obstructed perspiration, and cutaneous eruptions, or the fudden difappearance of them; the lime-water, in the erifipelatous fore, (hereafter to be noticed) efpecially where a great part of the limb is infefted with a fcalding difcharge, which takes off the fkin wherever it runs. But we fhall be difappointed, if we depend on this, or any other internal means; at leaft I have always found external applications much more effectual-Emetics, may fometimes be useful in fome cacochymic habits, or where there is a cold phleghm on the ftomach ; and previous to the exhibition of tonics.

HAVING now attempted, at leaft, to answer fome principal objections to the plan I have proposed, and explained what may be expected from it, with the manner in which the effect is produced, it is high time to proceed to a more particular application of it.

In order to this, it will be neceffary to make fome Diffinctions of ulcers, fince the general indications cannot be alike applicable to all.* Perhaps this

* See Intr.d. p. 4, 5.

might have appeared, with much more propriety, in a former part of the work, but it feemed of importance to be fully underftood as I went on, and to obviate, as they occurred, the difficulties of an attempt to introduce fo confiderable an innovation in practice. On this account, I have preferred this defultory mode to a more concife and formal method; but fhould I fo far fucceed, as to point out a practice which others can with fafety adopt, and furnifh the ingenious with hints that may be depended upon, it is hoped, that fome, or even many defects in other things will be overlooked.

THE numerous classes of ulcers, of which writers have treated in fo many diffinct chapters, feem more calculated to difplay the ingenuity of authors, than to lead to any ufeful diferimination; and must therefore tend to perplex those whom they ought to instruct. Such diffinctions are taken chiefly from certain accidental appearances of the fore, and the nature of the discharge; but are most of them so made as to have very little relation to practice, when applied to ulcers on the legs. Whether, indeed, ulcers are indolent or painful, fungous or callous, moift or dry, or discharge ichor, or fanies, amounts to little more than that their furface is in an ill-conditioned flate, can make only an accidental, and no effential difference in the grand indications of cure : all fuch circumftances being mere fymptoms, requiring only a temporary attention, and not characteristic of a difference in species.

The most easy and practical division I have been F 3 able

able to make, will be to confider them under two heads only, which are calculated to illustrate the preceding observations, and correspond with the more effential points of difference in the treatment they will require.

The first Class will include ulcers attended with great enlargement, or hardness of the limb; recent ulcers originating from an abscess, or any internal complaint; and every very old ulcer of a moderate fize, especially in habits accustomed to them.

The Second comprehends the true phagedenic ulcer; fuperficial ulcers where the furrounding fkin is excoriated by an exceffive and acrid difcharge; various large ones in very old people, or those of a relaxed fibre and habit, and all very large ulcers with a pale and loose furface, generally the consequence of bad health, poverty, or neglect.

In fpeaking of each of these, it will be neceffary to make such enlargements and subdivisions, as may relate to practical use.

And firft, it will be proper to obferve, there are two general affections, or fymptoms, every ulcer is liable to, which will require their particular treatment. These are inflammation and pain; for each of which it will be neceffary to lay down fome general rules.

WITH refpect to inflammation, fhould this attend a large fore, where the pain is very confiderable, (for the pain fo common in very fmall ulcers, is feldom the confequence of much inflammation, but rather of a thin and cauftic difcharge;) an emollient fomentation

tation of white poppy heads, and afterwards a bread and milk poultice for a few days, may be applied to advantage : but if such a case can arise as to require a much longer continuance of a poultice, it fhould be changed for one of the faturnine kind. This, will furnish the fame moisture and heat, and is not only a lefs relaxing application, (for fuch it has been obferved, fhould never be very long continued to the legs*) but is a more powerful antiphlogiftic. And here I may venture to repeat from a long experience, that fuch poultices and fomentations, however great their reputation, are feldom neceffary but in the beginning of the cure, where the parts are in a flate of inflammation, and particularly in the poor, who have long endured, and flood much upon them in that ftate; whole fkin is likewife often dry and left dirty, and its pores confequently obftructed. But as foon as the inflammation and foulness on the skin are taken off, ftrong digeftives, with exercise and a roller, will produce a much speedier and better digestion. - This I am fo fatisfied of, that I have no kind of hefitation in fpeaking peremptorily on the fubject.

I wish to make one remark more on this head, which is, that when a bread and milk poultice is required, it should generally be applied on the naked

fore,

* See also BELL, On Ulcers.

WISEMAN gives a cafe very much in point, and observes, that after confining a patient to the bed for a very bad ulcer, which he

fore,* whereby it fits eafier, and is much more useful, becoming the mildest application that was ever contrived, if it be well made. And I hope I shall be pardoned if I add, it ought generally to be made, and

he had poulticed a confiderable time, he could not get it to heal till he left off the poultice, and applied a laced flocking. *Book ii. cb.* 9.

* See FREKE's Art of Healing.

+ When I confider the importance of a good poultice to ulcers, when the use of them is called for, and the number of pupils who visit the metropolis every year, with an express defign of acquiring every kind of chirurgical knowledge, many of whom there is reafon to think, have rarely feen a bread and milk poultice properly made; it is hoped, it will not be thought triffing on this occifion to mention the best method of making it. This can be at the worft, but a little time thrown away, and if only one young practitioner should make a better poultice by this means, or if a fingle patient be benefited by it, I shall readily forgive others who may fmile at the receipt; for however well furgeons know how to make them, the fact is, they are feldom well made .- It has been too generally thought, that these poultices cannot be boiled too long; but on the contrary, it is long boiling that fpoils them. They should be made of the crumb of moderately stale bread, which should be cleared from every thing the leaft hard, or lumpy, and after being grated, should be rubbed between the hands, till reduced, as near as poslible, to its first state of flour. The milk should then be boiled, and the bread lightly sprinkled in with one hand, whilft it is kept flirring with the other. The difficulty with which the fpoon is moved, will shew when a proper quantity of bread is put in, after which it should not remain on the fire above two or three minutes at most, and should be turned out boiling, by which means the bottom will retain its heat a long time, after its furface

and applied by the furgeon himfelf, or at leaft in his prefence, and not intrufted to a carelefs fervant, or ignorant nurfe, as it ufually is; the former of whom imagines no fkill is required, and the latter, that no body can make one fo well as herfelf; though there is not one poultice in fifty, made and applied by either of them, that is properly managed. Before I quit this fubject, I cannot help adding, that if much benefit is expected from thefe applications, they fhould in many cafes be renewed oftener than they generally are : for the want of this, the fmaller ones efpecially, foon becoming cold, I am fatisfied, are often likely to occafion more injury than good.

Thefe, it is well known, are the cafes which call for bleeding and purging, and for which I have likewife fometimes advifed nitre and cicuta,* or opium; the

furface is become cool enough to allow of its application. It fhould be fpread upon a piece of double linen cloth, (not over fine) by the help of a round-ended knife (greafed with hog's lard or oil, inflead of putting greafe into it, which prevents its hanging together,) to the fize it is required : and fhould generally be about three quarters of an inch in thicknefs on the linen. If poultices are too ftiff or lumpy, they will lie heavy, and become painful to an inflamed part; if too thin, or not well mixed into an homogeneous mafs, they foon become cold, and chill the part they are intended to nourifh.—If a poultice is to be applied to a depending part, fuch as the eye or the breaft, where it will be apt to flip off, it will be an advantage to turn up the four fides of the inner cloth, about half an inch over the poultice; which will thereby be greatly fupported.

* This may fometimes have one advantage of opium, as it hath no tendency to conflipate the bowels, and if it has any other virtues

the last, however, will be less proper if the inflammation be confiderable ; but the antiphlogiftic regimen can never be required very long, for if the inflammation does not prefently yield, there is probably fome other caufe for it than the ulcer, unless there be difease of the bone. The former, it will be the phyfician's province to difcover and remove ; but if neither of these should be the case, and yet the inflammation continue, it will not prove of the phlegmonous kind, and I can venture to fay will yield together with the pain, to fuch topical applications as fhall promote a difcharge, and with the affiftance of firm bandage and exercife, shall cleanse or destroy the too fenfible furface; which will immediately be followed by eafe, and a healthy appearance of the fore.

It may be neceffary in this place, to take notice of a fource of pain not mentioned, that I know of, by any writer, and for a clear account of which I am obliged principally to an ingenious correspondent in the country, fince the first edition of this tract; having myself observed it only once, in any confiderable degree. This is an obscure ædema, more commonly attending small fores, and occasioning very great pain about the little ulcers, or not unfrequently along the whole spine of the tibia, especially in the morning; and is effectually cured by only applying the bandage a little tighter than usual. It may be met

virtues than that of an anodyne, as fome people have been of opinion, the patient will enjoy the advantage of them. with

with not only in large and tumid limbs, but in very well fhaped legs, where the œdema is not perceptible to the eye, but may always be difcovered by a careful examination with the finger.—As I have rarely allowed any of my patients to apply the bandage themfelves, and have always been careful of drawing it tight, it is not likely this painful œdema fhould have often fallen in my way. The fingle inftance I met with, however, has borne fuch direct teftimony to the obfervation of my correspondent, (who is often obliged to allow diftant patients to drefs their own fores for feveral days together), that it could not but appear to me as highly improper to overlook an obfervation, from which it is probable many patients may be benefited.

After what has been faid, another obfervation or two refpecting the fymptom of pain, is all that will be neceffary. And here I remark, that fevere pain muft be mitigated, if it cannot be entirely removed, or nothing will go on well; whilft the degree of pain, together with the nature of the difcharge, will point out the moft proper remedy for it; the quantity of the anodyne, is therefore not fo much to be attended to, as its effects. I have known excruciating pain from fmall ulcers, almoft entirely removed by half a grain of opium, taken only every other night, whilft at other times, three or four grains have given but little relief.

In these cases, the discharge is always thin and acrid; and though such vitiated matter may arise from the morbid state of the solids, and of the secre-

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tory organs of the parts, which throw off fuch kind of fluids as cannot be changed into laudable pus, yet this does not certainly arife from an inflammatory caufe, and therefore is not always removed by antiphlogiftics, and mere emollient applications; though it ever will be fo, when that is the cafe. But if the habit is not particularly concerned, it depends more frequently upon a want of that fpecies, or degree of inflammation, which is neceffary to produce well concocted pus,* which is therefore often induced by flimulating applications, which are the most fafe and and rational means of promoting it, and will, in this cafe alfo, as certainly be followed by a ceffation of the pain. And herein we go back as far as relates to ulcers on the legs, to the practice of the antients,*

* La feconde cause (du defaut de suppuration) est le desaut d'inflammation dans la playe. Traité dés Ulceres, &c.

† PAREY fpeaks exactly to this purpofe in the cure of ulcers, *lib. xii. cap.* 9. where after having directed cataplaims of folanum, cicuta, poppey feeds, and fometimes opium; fhould thefe fail to procure eafe in fome cafes, he adds, "neque anodynis, neque narcoticis, fedari poteris, imò blandis medicamentis appofitis magis ac magis irritabitur. Itaque ad catherætica confugiendum erit, nempe fortibus morbis fortia remedia funt optima. Quare ulceri imponatur pulvillus forti et viribus aucto egyptiaco, aut paulo oleo chalcanti imbutus, his enim domandi efferi illius doloris vis efl." To this he adds, "interim ulceri circumponetur refrigerantia, ne virium remediorum vehementia fluxionem excitet."—But this latter is greatly obviated by the ufe of a proper roller.

[‡] See GALEN, particularly his book De Composit. Medicament. fecundum Genera, and CELSUS. Lib. v. cap. 26.

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whofe ointments, it has been noticed, generally confifted of the warm gums, fpirits, and efcharotics, which though, in many cafes, juftly exploded from practice, in the treatment of ulcers in general,* are of admirable efficacy, in fuch as attack the lower extremities.

What has been faid will probably be quite fufficient on thefe heads; we have here manifest indications before us, and the remedies are therefore usually fimple and obvious—not always thought equally evident, through the whole indications of cure.

SYSTEMATICAL writers, who have been fond of multiplying diffinctions of ulcers, have been equally precife in their directions for obtaining a cure. We are to digeft, deterge, incarn, and cicatrize; finufes are to be faid open, callous edges are to be removed by the knife, or deftroyed by the actual or potential cautery; fome intemperies is to be corrected, or the whole habit to be altered : and above all, they advife a horizontal pofition of the limb, and

* See BELL, On Ulcers, who has made feveral very ufeful obfervations on this head, though the *French* furgeons are fill of a different opinion, (as appears from their 4th volume of *Memoires de Chirurgie*), and indeed fome latitude must be allowed; for the fact is, that in the cure of every ulcer, as of fever, a certain degree of inflammation, or exertion of the fystem is necessary; and too little, or an undue effort, does as certainly, though upon a different principle from Plethora, frustrate the falutary intentions of nature.

+ Compositi ulceris ad curationem multæ funt indicationes propositæ, PAREV.

injoin

injoin abfolute reft. The whole procefs of cure is most accurately delineated, and fome apposite remedy preferibed to effect every intention, as if art were fufficient for it all, and nature had nothing to do in the bufinefs. And indeed, were ulcers fuch very tractable, methodical things, as the picture reprefents, memory might fupply the place of judgment, and this part of furgery would be reduced to arithmetical exactness. But he whom practice has made most conversant with nature, well knows that her operations and the arrangements of fcience too little refemble each other.

It is univerfally admitted, however, that except an ulcer becomes clean, it will not cicatrize, though practitioners are not fo well agreed, concerning the best means of bringing it about. But we are always to know our proper place, art being in this, and in every other inftance, a mere hand-maid to nature, to lend affistance in a way the most agreeable to her own laws. In the introduction to this little work, an attempt has been made to reduce the principles of the cure of ulcers to two only, viz. an attention to the general vigor of the conflitution, and to the action of the parts; but with this view, it may be neceffary to pay fome regard to the nature of the different proceffes that are going on in the healing of every ulcer. There is, it has been intimated, a production of new fubftance in its cavity, and a condenfation of its furrounding parts to a certain level and extent. The former of these, indeed, is, I believe, very inconfiderable; it is, however, by the union of the two. that

that nature accomplifhes her end. That these proceffes do take place, may be known by an examination of the fubftance which is formed in the cavity of every cicatrized ulcer; and by the apparent evenness of the newly formed cicatrice with the neighbouring parts. And every one must have observed, that the loss of fubftance is more evident at fome months diftance from the time of cure,* than on the first healing of the fore.

Now, if the principles I have all along been laying down, as well as those last mentioned, are at all just and rational, they will at once ferve to discover the impropriety of depending upon very mild applications, \uparrow whilst they inforce the expediency of the means I have recommended.

The cure, it has been faid, is brought about by the general vigor of the fystem, and the action of the the parts, together with an absorption of those contiguous to the ulcer, the most apposite to which in-

* This observation has been long made in the case of those foveolge which remain after the small-pox.

† Perhaps the very belt of these is the fuppurative poultice for much recommended by Mr. FRERE, but it does nothing without the horizontal position of the limb; and has even then been too frequently ineffectual, or it is probable, would not have been discarded from hospital practice. His intention, however, was perfectly rational, which was, " to fweat out the disease :" an idea I have always had in view, in opposition to that of drying up distempered parts; which must always be wrong. But the former intention may be much better accomplished by other means, that do not require reft and confinement.

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dications, are good diet, exercise and bandage, with the external use of invigorating applications. And how much may be effected by them, experience alone can demonstrate, and it is a principal defign of this treatife to fet forth. I am happy, however, to find an author of confiderable efteem, and amongst the best of the later practitioners, fo much of my mind, I mean Wifeman, who had continual recourfe to warm and active applications, and rarely dreffed an ulcer on the leg in the first stage of the cure, without merc. corrofiv. ruber in one form or other. By this means, and the help of a roller, or laced-flocking, he fucceeded much better than most practitioners have done fince, with all our improvements.* And I am fatisfied from what I have experienced, that had he allowed his patients to walk, and by the help of a flannel roller, had made a still tighter compression than the laced-flocking can pleafantly admit, or indeed can effect, and had been yet bolder in the ufe of ftimulating applications, he had not had reafon to

* Notwithslanding all feiences have been improved by reducing them to a flate of fimplicity, yet, in an attempt to purify them, artifts have been fometimes led to overlook the principles on which fome practice has been founded, and have therefore difcarded many things that were valuable—like fome unprincipled empiric, who in order to get rid of an imaginary ill-humor in the blood, directs fo large a quantity to be taken away, as reduces his patient to a worfe difeafe than he laboured under before; forgetting that the good and bad blood would run out together.

See Thoughts upon Amputation by Dr. KIRKLAND,

complain

complain, that healing fome kind of ulcers was in general only a palliative cure. For it has been very evident in reading his cafes, and comparing them with my own experience, that the principal things which he failed in (befides forbidding his patients to walk, which it fhould feem, was not, however, always the cafe) was the not continuing his ftimulating applications much longer than he did, and his changing them for very drying ones in the end, in order to haften the formation of the cicatrice. See his cafes, in chap. x. particularly ; in reading which, I could not avoid being furprized he had not himfelf made the remark. The like observations may be made on Dr. Turner, who was in many respects but a copyer from him, but in others, feems to have had an advantage; and had he been well acquainted with the use of the roller, and been less fond of abstinence and reft, would have fet an example, which afterpractitioners would have made but little improvements on.

THESE things then, viz. Exercife, Bandage, and active Applications, may be folely depended upon in ordinary cafes; and where there is no fpecific poifon, or other manifeft evil in the habit, they will effect every thing in this clafs of ulcers, which art hath hitherto accomplifhed by reft, diet, and medicine; and will moreover effect fuch a cure as will ftand through all the ordinary fituations of life.

Any common digeflive is rendered deterfive in the degree it may be thought fit, by the addition of a little calomel, corrofive fublimate, the white, or red

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precipitate, or by a fmall portion of verdigreafe; of we have a very excellent one ready made to our hands, the unguent. citrinum : but, however uncommon the practice, it is fometimes better to use the red precipitate alone in the first stage of the cure, than to mix it with the digeflive; and this the ulcer will also readily bear, when exercise, and a good diet are allowed. And here it is, that the judgment of the furgeon difcovers itfelf, in adapting his dreffings to the nature of the ulcer, which (laying afide the refinements, and nice diffinctions I have ventured to difcard,) must by one mean or other, be brought to discharge laudable pus, whatever appearance its furface may have; for nothing goes on well till this is effected. On the other hand, furgeons have generally been too eafily fatisfied, especially in regard to old fores ; and if the ulcer has but appeared clean, it has been prefumed, that all has been going on well. To this end, therefore, various trifling applications have been made use of, such as washing with a ftrong decoction of hemlock, dreffing the ulcer with the gastric juice, and other light stimulants, or astringents, or covering it with fedative and emollient poultices. But all this is inviting a fore to heal up at any rate, and by leaving the difeafe at the bottom, has infured its breaking out again. But not only must the furface be clean, but the granulations firm, and fuch a plentiful digeftion promoted, as may liberate the veffels, reftore the due tone of the parts, and furnish laudable pus. This, the most inveterate ulcers on the legs may be brought to afford, as freely as fores

fores feated any where elfe; unlefs, perhaps, those on the head are excepted, which, I think, furnish pus more perfectly album, læve, et æquale, than those of any other part.

Probably nothing but experience can induce any one to think, how eafily this may, in ordinary cafes, be effected by powerful digeftives, and exercife, and how foon afterwards many troublefome fores put on a proper appearance, and are brought into a healthy, and healing condition. But where thefe things fail, recourfe muft be had to more powerful means,* and fuch as no furgeon is ever at a lofs for; which if freely applied, interpofing lenient applications if the appearance of the fore feems to demand them, + will deftroy the foul furface, and give nature (affifted by a good diet) an oppoNunity to exert herfelf; and as *Hoffman* fays on this very occafion," ex voto fuccedit confolidatio."

Perhaps, one of the beft applications of this kind, is the merc. cor. ruber very finely levigated; this is peculiarly ufeful in fome finall and obftinate ulcers prefently to be noticed, nor will it be immediately fufpected, with what freedom, and frequency this

* "Vulnera maligniora valentioribus egent remediis; imbecillioribus, autem, mitiora."

GALEN. De Compend. Med. Lib. iv.

+ In cafes wherein the author has made use of any remedies out of the common way, he has in this edition pointed them out, and described the kind of fores that may call for their use; though in this class of ulcers such instances are very few.

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active mineral may be applied. It may be faid of this, as Hippocrates fays of frictions, that it foftens the hard, ftrengthens the relaxed fibres, deftroys the unfound, flimulates and elevates the growing flefh; that it promotes, or diminishes discharge, and keeps open, or heals up the ulcer, just as you would direct it. Nor is this faying too much of it, with respect to a great number of cafes, for all this is a very certain confequence of a proper use of it, where a tight bandage is applied, and adequate exercise allowed. But then, it has been hinted that, for fome of these purposes, (which will hereafter be specified) it must be used with great freedom, and be often repeated, and inftead of being lightly fprinkled over an illconditioned furface, the ulcer must be filled * with it, the furgeon taking up a large pinch of it, and plugging up the fore.

It has been faid, that the above practice is particularly ufeful in many finall ulcers; but even in large fores, fomething of the fame kind will be found neceffary. The foul furface must be removed, and the fore brought to the state of a fresh wound, which can be done only by the distempered parts being melted

down

^{*} While I was engaged in drawing up this little tract, I chanced to meet with more authority for the above practice than I expected, for looking over WISEMAM, I found him making ufe of the very expression; to which practice, I am fatisfied, he, as well as Dr. TURNER, owed much of their fucces. The former tells us he performed cures on the legs in as few weeks, as the patients had been years under the hands of those he calls the barber chirurgeons of the time. Book. it. cb. 9.

down (as it is ufually faid) by powerful digeftives, or deftroyed by corrofives; and till this be done. fome obstacle or other will continually arife,* but this once effected, you remove the greatest hinderance to the cure. And it may be more eafily done than is generally imagined, and though the fucceeding furface fhould put on the fame unpleafant appearance, after the first, or even second application, yet the amendment, though gradual, is certain, and the pain is lefs fevere than might be expected. The digeftives are ftill continued when the efcharotics are left off, and the parts being, by thefe means, put into action, in general nothing farther is required, than to wait till nature is able to accomplifh her proper work. The want of this ability, or occasion to exert herfelf, is the grand impediment to the cure, but this reflored once and again, will effect every thing that is required.+

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Befides

* Ulceribus haud diligenter deterfis, hyperfarcofis fupervenire folet. PAREY, De Ulceribus.-See alfo RHAZES, Lib. Divis. cop. 134, 138. In which cafe (fays a modern writer) " the granulations are either foft and fpongy, and arife only from the furface of the ulcer, or elfe rife too high in the form of fungus, or foon ceasing to fhoot, are not followed by a difposition to form a cicatrice; or if the ulcer heals, it foon breaks out again."

[†] From the very judicious observations on the Malvern-waters with cases annexed, published by Dr. WALL, it should appear, that the good effects produced by them on ulcers of the legs, have arisen from their volatile spirit, Such an idea agrees very well with the theory I have adopted, and which every day's experience has confirmed. Dr. WALL, indeed, in one place sext of the coldness, and astringency of the Malvern-waters externally applied,

Befides the abovementioned use of the precipitate, for the purpose of bringing foul ulcers into a good state, it is not unfrequently neceffary in order to preferve them fo, and to promote incarnation; and even in this view, it often anfwers much better by being fprinkled upon the fore, than mixed up with the digeftive. I know how much that mode has been objected to by the late Mr. Sharp, who both as a writer and practitioner, I should be more inclined to envy than to cenfure. Neverthelefs, experience is the best testimony, and has demonstrated to me how much, and to how great advantage, ulcers on the legs will endure the use of precipitate. Perhaps, an inattention to this, has been one occasion of the very unfavourable opinion furgeons have always entertained of fore legs, and of the difficulty of their cure; but fo various are the inftances I have feen of the specific power of precipitate, in different kinds of ulcers, where every common application had been used to no purpose, that I can recommend it with more confidence than ever. I do not fpeak merely of foul, or callous ulcers, but of those very aptly denominated dysepulotic, wherein nothing has appeared particularly amifs, but there has been no

applied, but this is only an opinion he has taken up from fome cafes, in which they had not proved beneficial; for he observes, they often occasion fo great heat in the part as to induce fuppuration in cold tumors, and that in almost every cafe where they have been useful, they have raised more or less inflammation, and have often occasioned very confiderable pain for some days.

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disposition to heal. The furface of fuch fores has fometimes been glaffy, and the edges fharp and angular as if newly divided with a knife; without the least disposition to granulate or incarn, but at the fame time not of that irritable nature which inclines them to fpread ; which I shall speak of under the next head. The free use of the precipitate, for four or five days, though it has, indeed, fometimes produced little floughs, which, however, have not feemed to render the fores deeper, has put the atonic parts into action, and like the exhibition of the cortex on fimilar occafions, has removed every unkindly appearance, produced a difcharge of good pus, and difpofed the ulcer to heal. I have already hinted in another place,* that this flands no longer on my authority; the accounts I have been favored with from different practitioners, both here and on the Continent, fince the former edition of this treatife, bear a direct teftimony to the advantages the Public has derived from the hints I then ventured to throw out. Patients have also been treated in this way in different hospitals, where the good appearance of large ulcers, repeatedly covered with precipitate, has fully answered every expectation I had formed, or had previoufly experienced in my own practice. Some confiderable knowledge in the profession, as well as experience of this plan, and attention to the effects of the remedies, are, indeed, effentially neceffary, by which alone the practitioner can be enabled

* Additional Preface to this Edition.

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to judge how long he may continue the bold use of fo active an application: for it fometimes happens, that one day too long will offend a fore that has been inexpreffibly benefited by its use; whereby the cure will be retarded. And if the plan has met with less fuccess in hospitals than in private practice, it is not unfair to attribute much of this, not only to the foul air of the wards, and the improper manner in which (it has been noticed) a tight bandage is fometimes applied, but to the inattention or ignorance of fome of the pupils in this respect; it being impossible for the furgeon, in every case, to lay down rules sufficiently precise for the pupils to follow, which constrains him to submit less to the temporary difference of the dress.

HAVING fo fully flated, and endeavoured to defend the principles and practice laid down, it remains only to collect them into one point of view; and then to felect a few of the varieties of ulcers to be met with in this class, with the treatment of each, as illuftrative of the feveral indications and remedies propofed. And to this end, it feems only neceffary that the reader fhould be reminded of what has all along been observed of the peculiar circumstances of fores on the lower extremities, and of the caufes and operation of these peculiarities .--- To obviate the force of thefe, by proper bandage, and other fuitable topical applications, and general remedies, tending to remove, or correct, the atony, and other ill-dispositions of the parts, and both enable them, and the fystem at large, to make fuch well-directed and falutary exertions

tions as fhall place ulcers, fo feated, in circumftances as fimilar as may be to those on other parts of the body, has been the leading idea throughout this work. How far this reasoning may have been just, or the means above pointed out may appear rational and adequate, the reader himself is now called upon to decide; whils the author, for his part, has the fatisfaction of thinking, that fuccess has, at least, justified his attempt, and given some fanction to the practice he ventures to recommend.

AMONGST the few inftances to be felected from particular cafes, is a fmall ulcer, frequently hinted at, and for which, after every other mean has failed, the precipitate, or other escharotic is a specific. It is improperly accounted fcorbutic, and particularly affects the parts about, and even below, the ankles; which, indeed, cannot therefore properly be called a fore leg. This is exquifitely painful, and for fome time appeared difficult of cure without refting the limb, fo little advantage being obtained from the roller; which cannot be made to afford much compreffion below the feat of the fore. It was in thefe cafes more efpecially, that Wifeman preferred a lacedflocking, becaufe (as he tells us) he " could not with a roller make a fuitable compression fo near the ankle, without caufing a fwelling on the foot." But this is certainly a miftake, for having, at first, found the fame difficulty, I was foon able to remedy it, by carrying the roller feveral times over the ankle and foot, fo as to leave no part but just the point of the heel uncovered by the roller; and by this means, I alfo

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alfo make a tolerable compression below the ulcer itself : to which intentions, the circumstance of the roller being made of flannel, very greatly contributes. These cases are often attended with a confiderable puffinefs, and a tetterous appearance of the furrounding fkin, accompanied with a thin and acrid difcharge, which renders the parts additionally tender ; whilft the little ulcer is almost perfectly dry, and cannot eafily be brought to fuppuration, till the complaint of the fkin is removed. This I once thought was relieved by bathing the parts in Nevilholt water, as lately recommended for this purpose, but I foon learnt, is much more fpeedily removed by drying applications, which inftead of the common cerate, may be fpread on lint, or linen cloth, and applied over the ufual dreffing to the fore; for which common treacle is often a very good one, as well as for many other irritable ulcers. The outer dreffing may confift of cerat. alb. with bole and powdered allum; or the ung. deficcativ. rubrum, or in more obflinate cafes, a compress of linen may be wetted in a folution of facch. faturn. and vitr. alb. with an ounce or two of camphorated spirit, in a pint of fpring water; which, notwithftanding the tumor, and heated appearance of the part, I never found difagree.* If the fore fhould not foon change its com-

* These affections of the skin, vulgarly called scorbutic, have usually no one symptom of that dismal complaint, and being merely local, should always be treated as a disease of the skin; for true scorbutic

complexion, on the difappearance of the affection of the fkin, the little ulcer fhould be filled with precipitate,* pulv. angel. diffolved lunar cauftic, or any fimilar efcharotic, and when the flough is come out, be immediately repeated, if the fore fhould not then put on a kindly appearance, which it certainly will in a very little time; but the cure will not ftand if this be neglected. But though fo much has been faid on the bold ufe of very deterfive, and even efcharotic applications, it is to be remembered, that recourfe need not always be had to them in the firft inftance; but whenever lefs active means, aided by the bandage and exercife, fhall prove ineffectual, I reft it upon every man's experience to demonftrate the utility of them.

There is nothing I can be more fatisfied of, than the propriety of the method here recommended. There is no fmall fore on the leg ufually fo trouble-

fcorbutic ulcers are of a very different kind, and will not endure the use of escharotics. See Dr. CULLEN's Synop. Nosolog. also Dr. LIND, on this difease. Part ii. chap. 2.

* WISEMAN fpeaking of fuch an ulcer, has this bold expreffion, which I doubt not was the refult of experience, "the beft anodyne had been to have filled it with precipitate." Book ii. cb. 4.—He was not afraid of the confequence mentioned by *Hippocrates*, or knew better how to diffinguish cafes, than to be in any danger of the evil he mentions; who fays, "Thrinon Damonis filius, habebat malleolum ulcus, juxta nervum fane non purum, huic a pharmaco corroso contigit, ut opisthotonos moreretur."

> Epidem. Lib. v. fome

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fome to heal, by ordinary means, as an old ulcer near the ankle, and there are fcarce any of the antient writers but mention it as fuch; whereas, there is no ulcer on the leg, that is fo eafily, foon, and certainly cured, when properly treated. The numbers, and variety I have feen, leave me no room for doubt on this head; of which fome have been from three to thirty years flanding, breaking out again as conftantly as they were healed, and inexpreffibly painful. But if not of the phagedenic kind (of which I fhall treat in another place) are perfectly cured, in a few weeks, by taking much exercise, and dreffing with the warmeft digeftives, or (where these fail) by a free use of precipitate, and a bandage. This may be very tightly applied, if no true inflammation attends, or as foon as this fhall be removed by bleeding, and a few days application of Freke's fuppurative poultice ;* which it will be fometimes proper to begin with, if the ulcer is deep.

Since the former edition, I have had an inftance of the efficacy of the precipitate, in a fore on my own ankle occafioned by a burn. A fmall and very painful little efchar was formed, which, after I was tired of poultices and other emollient applications, and common digeftives, I loaded with precipitate twice a day, and applied a tight flannel roller; which I fhould have done fooner, had it not been fo recent a fore. The fmall fize, and drynefs of the ulcer, in-

* See his Art of Healing-his poultice confifted of figs, onions, marshmallows, and white lily roots.

duced

duced me to drefs it fo often; and by this means, a kindly fuppuration foon took place, which feparated the flough. Imagining, now, the little ulcer might be healed by any common means, I made ufe only of a few turns of a linen roller, to fecure the dreffings, and for feveral days, applied nothing but ceratum album, and afterwards, common digeflives; but one flough formed after another, whilft under this courfe. I then returned to my flannel roller and dreffed again with precipitate, which I fprinkled on the fore every day. After this no more floughs appeared, and the ulcer healed kindly, under the conftant ufe of the precipitate.

There is another species of small ulcers, accounted difficult to heal, that is likewife, improperly, termed fcorbutic, and is exceedingly painful, though without any tumor of the limb; and fometimes attacks young and robuft people. These fores are difperfed over a great part of the leg, particularly along the fpine of the tibia; are generally round, and rather deep, with thickened edges; and are often not larger than peas : whofoever has once noticed them, will readily diffinguish them from every other fore. Though difficult to be healed, and difposed to break out again, as they certainly are, when treated upon the lenient plan, frequently nothing more is neceffary than to bathe the limb for a few nights in tepid falt and water; to drefs the ulcers with precipitate and digeflive, and apply a very tight bandage, which immediately removes the pain; and I have known fuch ulcers, though of long flanding, perfectly healed 11

in ten or twelve days. Should others, however, prove obstinate, from having their feat on more tendinous parts of the leg, the ointment must be made more active by the addition of a little lapis infernalis; which forms an admirable dreffing for many dyfepulotic fores.

There are other finall old ulcers, which often require a peculiar kind of dreffing, merely from their being feated on tendinous or ligamentous furfaces, fuch as the inftep and lower parts of the leg. On this head, I need only to obferve, that common treacle with frefh lemon juice boiled up in it, agrees with them fo well, that they require nothing more, unlefs it be to have the furrounding parts touched with a lotion of the tinctur. martis cum fpir. falis, fufficiently diluted; both which applications fhould be continued as long as the fores remain in a very irritable flate. I fhall juft remark, that the like dreffings agree equally well with many foul ulcers, that are irritated with moft other dreffings.

I have also met with other deep, and painful ulcers, fomewhat larger, of no regular figure, nor confined to any particular parts, for which the fine powder of bark is often a good dreffing. After the ulcer has been filled with this, morning and night for a few days, and covered with a good digeftive, fuch fores will begin to fill up with firm and florid granulations, and will lose their morbid fensibility; but if they fhould not, the furface must be destroyed by precipitate, as formerly directed, and trial made again of the bark, if it should feem to be neceffary.

IN

In ulcers of long ftanding, and where the constitution is thought to be concerned, it fometimes happens that befides a large fore, the leg shall be exceedingly fwelled, with hard tumors, or lumps, in one or more parts of it, which will not always be diffolved by the difcharge. But while this is kept up, the application of a large piece of oil'd-filk will. produce the happiest effects, and with fafety disperfe the indurations. And as it fometimes happens, that the other leg will be equally fwollen, and exceedingly hard, though without ulceration, that fhould likewife be rolled, and covered with a like piece of oil'd-filk; which, by exercife, will daily produce a confiderable perspiration, and without the least affistance from medicine, will bring down the hardness and fwelling, by the time the ulcer on the other is healed. This direction, however trifling it may appear, I have found fuch evident advantage from, that I think I should not have done justice to my subject, if I had not made particular mention of it. For the like purpose, the leg may be well rubbed with volatile liniment and about an eighth part of mercurial ointment; but I think, I have never found occasion to have recourse to any embrocation for this species of fwollen leg, fince I first made use of the flannel roller and oil'd-filk.

HAVING now faid every thing that can be neceffary, with refpect to cleanfing and incarning, and pointed out a few useful medicines, and fome particular cases in this class of ulcers, I shall close it with fome observations on healing; an article of

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of as much importance, as any that has been noticed.

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This laft procefs of nature is by no means to be hurried; and if every thing is right, and the bottom of the ulcer become found, no particular means will be required for it, it being, in general, fufficiently difpofed to heal of itfelf, and will, even with the ufe of ointments not a little deterfive.* For it is fuppofed (as will foon be explained), the more active ones have been weakened already, but not fo much as to become mere greafy applications; which (efpecially warmed ones, \dagger) upon this plan, do as much injury, by relaxing the parts, as do very drying applications, when ufed to haften the production of the cicatrice.

If this latter be attempted too foon, and efpecially if early recourfe be had to drying applications, the furgeon will foon perceive his miftake. The ulcer being only partially digefted, like those treated upon the lenient plan, when apparently about to heal up, will burft out in one form or other. This will especially follow in those termed conflictutional fores, attended with difeased skin, and of very long standing. Here simall ulcers will be formed in the distempered parts of the skin, which in a while becomes pappy, and denotes the parts underneath to be un-

* WISEMAN particularly notes having cleanfed, incarned, and healed ulcers on the legs, by the use of precipitate.

+ See BELL, On Ulcers, in regard to the relaxing nature of warmed applications. Medio tutifimus ibis.

found.

found. Hence matter may be forced up by preffure, through many little orifices, putting on fuch an appearance of difeafe throughout a great furface of the limb, as may difcourage the furgeon from expecting a cure, without a great length of time, and affiftance from reft. But all will go well notwithstanding, under the advantage of good rolling and exercife, if the discharge be kept up; for the exercise, instead of protracting the cure, I am fatisfied, tends in fuch cafes, directly to enfure it; and I accordingly always defire it may be increased. All that can be neceffary, is to lay the finall contiguous fores into one, by a flight touch of the lancet, which will afford very little pain, as the parts are now become perfectly fodden, and the fkin parted from the edges of the fore; or fhould this be objected to by the patient, the little holes may be filled up, once or more, with precipitate, and the cure will go on as effectually, and almost as speedily as could be wished.

It was faid, the digeflive or other dreffing, after a time may be weakened, and this may be done without improperly diminifhing that difcharge, which it has fo often been infifted upon ought to be kept up : for when the most active remedies have been used, in bad cafes, for two or three weeks, the stimulus from exercise will sufficiently maintain it; and it is a good maxim to proceed gradually to that change between a copious discharge, and its total suppression, which should be always kept in view through the whole of the cure.

As foon then as the fore, however large, puts on H a per-

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a perfectly healthy appearance, this change in the dreffing fhould begin, which fhould be repeatedly weakened, three or four times, at fuch intervals as the fize of the fore, and the time fuppoled neceffary for its cure, shall point out. But great caution is required not to be too hafty in this, or to continue it, if the difcharge is ftill very confiderable. An attempt to suppress this is always improper, and if it fucceeds, will, indeed, divert the difcharge fome other way for a time, but without any advanatge to the patient; and the matter inftead of burfting through the fkin, where that happens to be difeafed, will form a paffage in different places through the furface of the fore. In this cafe, the bandage fhould be drawn tighter below the feat of the ulcer, and the matter by preffure with the fingers, at each dreffing, fhould be carefully forced up; the furgeon must likewife return to more active applications, by which the fore will foon recover a more pleafant appearance. But if no fuch change fhould prefently take place, either more time is required to cleanfe fome diftempered parts in the ulcer, or elfe the whole fore is unfound to the bottom. In the former cafe, time, it has been faid, will do every thing that is wanted; but if it does not, recourse must be had again to efcharotics, which, if the bone be not difeafed, will invigorate the parts, and foon improve the discharge; or if stronger be used, a thick slough will be made, and the furface, the moment that is thrown off, will be clean, and will put on a promifing appearance again.

Upon

Upon this head it may be proper to obferve, that when large and old ulcers are brought to a copious discharge, whilst the surgeon, from their unkindly nature, is afraid of too haftily weakening his dreffings, though the ulcer may be very confiderably diminished in fize, it will often be proper to defend its tender edges, and new fkin, as it is called, with a little cerat. epulot. or fome fimilar application. But it may be still better, in very irritable ulcers, and fuch as are much indifposed to heal, to spread a margin of cerate on the fame dreffing, that the whole may be covered with one piece of lint, by which means the discharge finds a readier way to run off; a matter of the greateft importance in fuch ulcers as are eafily offended. The pledgit, for this reafon, fhould likewife extend confiderably beyond the furface of the fore, especially in small ulcers, or the tightnefs of the bandage will prevent the matter from escaping, and thereby occasion a continual irritation, which will difpofe the ulcer to fpread. * But though cerate

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* The doctrine here inculcated, though founded upon repeated facts, I find strongly controverted by MR. HUNTER-" When treating of pus, in my lectures" (fays that able teacher) "I obferved, that I was inclined to believe that no matter, of subatever kind, can produce any except upon the part that formed it : nor do I believe that the matter of any fore, let it be what it will, ever does, or can do any hurt to that fore ; for the parts, which formed the matter are of the fame nature, and cannot be irritated by that which they produced, except extraneous matter is joined with it .--- If what I have now advanced is true, wiping, or washing away

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cerate is allowed of with the view I have mentioned, the use of drying applications will, by no means, haften the cure in this class of ulcers, which, perhaps, contains much the greatest number.

IT

away matter, under the idea of keeping the parts clean, is in every cafe abfurd." See his Treatife on the Venereal Dificafe, page 36, Note.

It is fomewhat unpleafant to have to combat fentiments with fo refpectable an opponent, whole experience as a furgeon, as well as his phyfiological attainments, might well claim a reverence from the most eminent practitioners. But the doctrine contained in the above extract feems to be far too general, and I think may lead to erroneous practice; for an enemy as I am to a feropulous attention, and rude manner of always wiping off all the difcharge that may be furnished by ulcers, I am equally perfuaded, that much matter confined upon them will often occasion their spreading .- It is very pleafing, indeed, to be able to account for the changes taking place in difeafes, and for the operation of certain remedies, as we are thereby often enabled to extend the application of the latter to different complaints, and render them more generally useful; but we may be too nice in our inquiries, and a turn for theory, and phyfiological difquifitions may poffibly be carried too far; and certainly are fo, when not only unfupported, but contradicted by facts ; as appears to be the cafe in the present inflance. For though it is very probable, that the fyllem may not be affected by the abforption of new venereal matter, any more than inoculated patients are by a fresh application of the variolous; there are neverthelefs other ulcers that will fuffer by the acrid matters which they fometimes fecrete. The difcharge furnished by a cancerous fore, it is well known, will erode the fkin, and extend the dimenfions of the ulcer when not otherwife in a fpreading or fphacelaring flate : and the like will happen to many other fores when there is no admixture of foreign matters. To prove this, let an ulcer on the

Ir may then be laid down as a general maxim, that they should rather be suffered, than invited to fkin over; and to fpeak plainly, I would, efpecially in those of long flanding, rather irritate than coax them, for I know they will heal in the end. And I wish to enforce this idea very strongly, as of the greatest importance,* and to recommend, in all fufpicious cafes, and efpecially where ulcers have been difposed to return, the long continued use of deterfive applications, not only till the fores have long put on a very florid and healthy appearance, but almost, or intirely to heal the ulcer under the use of fuch active applications; nor will even time always be loft in fo doing. For if every part is become perfectly found, the bandage will furnish that warmth which inclines them to heal; whilft on the other hand, if nature be not yet difpofed entirely to suppress the discharge, the surgeon, as hath been fhewn, by attempting to heal up the fore, will have

the leg be dreffed with a little white cerate, or any other bland ointment, fpread upon lint, and afterwards with the like fpread on a thin piece of fponge, and the part be fo rolled up as to confine the difcharge: or fhould the cerate be thought capable of communicating this property, the different appearances of the fore will be fill more evident when dreffed one day only with dry lint, and another with fponge. In a certain flate of the fore, when difcharging plentifully, the ulcer will be either foul or raw, and its dimensions increased, under the former, but will appear fresh, healthy and granulating, by means of the acrid difcharge being more abforbed by the latter.

* Vide page 28, of the Introduction.

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great

great part of his work to do over again. For this reafon, dry lint, blue vitriol,* nor hard comprefs, fhould never be ufed, though I know they have fucceeded for a prefent cure in feveral inflances. The cafe, indeed, is different, when patients, at this period, are confined, dieted, and purged, (though upon that plan fores are not fo foon brought into a good flate;) fuch applications may then both agree, and expedite the healing of the fore: but fuch ulcers being rather deficcated by art, than cicatrized by nature, many fuch patients muft foon make application again.

The habit is to be first gradually relieved, and to fpeak a popular language, the humors are to run off, and the change from a long accustomed, or copious drain, to be cautiously effected; but which gradually abating as the wound diminishes in its fize, nature, however averse to sudden transitions, will when left to herfelf, in a reasonable time find some other vent.

* WISEMAN experienced this in a cafe that appeared to be going on well, but fuddenly turned foul, and in a few days became as bad as ever. (Book ii. cb. 9.) This, however, feems to have been his ufual method, and it must be acknowledged, that fome ulcers on the legs healed in this manner may fland well, but there is no adequate rule to determine by; and therefore would a furgeon be certain of healing an ulcer, and perfecting a cure, that must not be his method.

+ See Mr. ELSE's paper in the Med. Observ. and Inquiries, where he speaks of covering the ulcer with a sheet of lead; fo also a late French author; though, indeed, the practice is very ancient.

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This

This remark, and what has been faid above, it will be fuppofed, is peculiarly applicable to ulcers of long ftanding, but although in more recent cafes, it may not be fo neceffary that nature fhould find fome other outlet than the ulcer, neverthelefs, all the above reasoning, as far as it relates to practice, will generally hold good : though it may, perhaps, be better accounted for upon very different principles. * Experience proves that few ulcers on the legs, though brought into a clean state, ought to be healed by any other means than preferving them fo, nor will any other, under the directions here given, in ordinary cafes, be found in the leaft neceffary. Every furgeon knows very well, that the great difficulty refpecting the cure of ulcers, and more especially those on the lower extremities, is to bring them into a good and healing state, and when that is accomplished an entire cure will follow of courfe. This is one reafon that wounds on the head fill up fo readily; they are not long in a foul state, and therefore after a few days use of fome lenient digeftive, want only to be kept clean; or at the most, to have their luxuriant granulations kept within bounds, which are merely a confequence of ftrong digeftive powers, and of nature over-doing her part. But in the cafes before us, there is little

* Having already offered an opinion on that fubject, (vide the Introduction, p. 37, 38.) when fpeaking of the good or bad effects ulcers have on the conflication, which, it was faid, were probably rather owing to irritation than the difcharge; it was more natural to express myself here in the common language of writers upon this fubject.

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of this to be apprehended, for it has been faid, the conftant and firm preffure from the roller, (which may be increafed as may be found neceffary,) will always keep down this loofe fungus. It will therefore be fufficient to apply a mild, defenfive plafter, or fometimes one more drying, (as formerly recommended, if there are heats on the fkin) which fhould be fpread only on a piece of doubled linen, and be laid over the digeftive; but if hard comprefs, or merely drying applications are laid on the fore, the ill-confequences I have mentioned will generally follow, or the fore, for want of proper digeftion, will break out again.

Upon the above plan, however, every objection to healing the ulcer, as well as our fears for its return, are fufficiently obviated, and for want of which, the author of the paper in the *Medical Obfervations*, appears to have obferved the above unpleafant effects; for if old ulcers are dried up inftead of digefied, and fkinned over inftead of being cleanfed and incarned;*

* HIPPOCRATES speaking of recent ulcers, hints at this expeditious method of healing under particular circumstances, but how inapplicable to the cafes before us, reason and experience will determine—" aut fi quis avertat (viz. fuppurationem) ut omnino non suppurentur, præterquam necessario, eoque paucifimo pure, et ficca sunt quam maxime, ex medicamento non molesto,"—though in another place he adds, " ulcera non purgata, non committi folent, etiams adducuntur, neque sua sponte coeunt. De Ulceribus, § v.—No better proof, however, need be fought for, that such is the general mode of treating ulcers of the legs, than the candid observation of the anonymous writer mentioned in the Introduction, page 30. Note.

if any thing is ever to be apprehended from the fuppreffion of an accustomed discharge, or the least attention to be paid to the depending fite of a wound, it is here we must expect all the evils that theory fuggefts, or experience is faid to have proved. But, indeed, it generally happens, that ulcers thus healed, form a callous cicatrice, which foon falls off when the parts are not found underneath, and fo prevents the mifchiefs expected. Whereas, having thoroughly digefted the ulcer, and brought it into a healing condition, leave it to nature at this particular period. and not only will the cure be effectual, but as hath been observed, will often be accomplished in as little time, as it is ufually done by reft, diet, and purgatives, with the affiftance of all the alteratives, as they are called, that I have ever feen uled.

One caution more, however, may be neceffary, in regard to a circumflance juft now mentioned, the healing up with a callous cicatrice, or fcab; oftentimes not eafily avoidable indeed, and as feldom thought of upon the lenient plan, but almost uniformly an occasion of ulcers breaking out again. This is, however, by no means, fo likely to happen upon the plan recommended, as under the lenient one, practitioners being often glad to get old ulcers healed by any means in their power, elpecially in hospitals, which are crouded with them.

It were needlefs, I apprehend, to inquire into the caufe of the breaking out of ulcers that are covered in part with a feab, though it were eafy to devife a fpecious theory; but the fact is a flanding one, that if

if ulcers are fuffered to heal up before the whole of the furface has been covered with firm granulations, or if after this, they have been dried up with a thick fcab, or fuch be formed afterwards, they will be apt to break out into worfe fores than before. Such feabs arife either from the furface of the ulcer becoming dry in different parts, in the form of islands, as they have been called, or from the thickening of the edges of the cicatrice. The former must never be allowed of in this clafs of ulcers; but fuch fpurious covering muft be destroyed, the bottom of the ulcer, in fuch parts, being unfound; no fore on any other part of the body ever healing in that manner, when defended from the air. In the latter inftance of fcab, when the fore is become fmall, the edges of the new cicatrice are found, from day to day, rifing above the level of the found fkin, as the cicatrice advances on the furface; and certainly indicates a fucceeding fcab. This is therefore to be prevented, especially in ulcers of long standing, or fuch as have discharged very copiously, and in patients who have been accuftomed to fore legs. In order to prevent fuch kind of healing, the new edges fhould be well rubbed daily with an armed probe, or be fcraped down with the fpatula as long as they shall appear thick; and should this not be fufficient, they fhould even be deftroyed by lunar cauffic, and the deterfive powers of the dreffings be increased. This may be done by the unguentum citrinum, or the cerat. epulot. with precipitate, by which ulcers may be healed very kindly, and on the above account, I have observed this fort of dreffings are

are in many cafes, preferable to a weakened digeftive, in the last stage of the cure.

Only large fores will afford any difficulty; whatever pain, swelling, or humors, fo called, attend fmaller ulcers (of this class), they will occasion very little trouble, after a little experience of this method of treatment. The copious discharge, which a proper diet, exercife, and the digeftives always produce, remove thefe, and many other fymptoms, that are found fo troublefome on every other plan; and foon bringing the fore into a healing flate, ufually no farther difficulties occur, if the bottom be found. If therefore, after this period, a large ulcer is found indifposed to heal up, (though there be no other reason for fufpecting mifchief at the bottom) and the ufual ftimulants are found ineffectual, the fore after the ufe of them, still continuing at a stand; fomething farther is neceffary : the powers of nature being, in fome habits of body, often infufficient to cover a large furface with new fkin, without other affiftance, and a very different flimulus, which will prefently be defcribed.*

THIS brings me to the Second Clafs of ulcers, which in feveral refpects, requires a treatment different from the preceding. It was a just observation of Ambrose Parey, " necesse quoque est varia adesse medicamenta, viribus pariter et virium gradibus diftincta;" for fays he, " nihil mirum fit, fi suo sepe excidant fine, qui eodem medicamento, omnia maligna ulcera curant, et fanare se posse putant.

> * See pages 140, 142. † Cap. 9. Lib. xii. Under

Under this head then, I shall treat that species of ulcer called eryfipelatous,* or herpes exedens, occupying merely the furfaces of parts, which is always glaffy, and in its first stage, eafily offended by every unctuous application; also many fmall ulcers, attended with an eryfipelatous affection of the fkin, furnishing a copious, and almost caustic discharge; the true phagedenic, and various large ulcers in very old, or poor people, and in patients of a relaxed fibre and habit; including every very large ulcer of long fanding, with the like pale, and loofe furface, the confequence of bad health, neglect, or intemperance. Not that I mean to imply that no very large ulcer will yield to the former method, nor that he means there laid down, have no fhare in the cure of those now to be confidered, unless the eryfipelatous be faid to afford an exception; for whatever may be the circumstances of the ulcer, it is to be digested, and deterged, before we proceed to incarn.+

These things premised, the cure of every ulcer is to be undertaken with the fame intentions; powerful fuppuratives, digestives, and deterfive applications are to be used, and we are to proceed to escharotics as occasion may require. But when active remedies under every form are found to disagree, after a fore has been properly digested, and has put on a tole-

* Introduct. p. 4, 5.

+ To incarn before we mundify, or deterge before we digest, is building without a foundation, or to lay fuch foundation on the house-top. DR. TURNER.

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rable

rable appearance, it is to be ranked in the fecond clafs, however fmall it may be; and efpecially that ulcer, the most obstinate of any, defcribed under various names,* and usually known amongst us by that of the putrid or phagedenic—I shall begin with the eryfipelatous.

I HAVE adopted this term, for the want of a better, to defcribe an angry, fuperficial ulcer, which is fometimes likewife accompanied with an affection of the fkin that will fpread over the greater part of the leg; and chiefly attacks the aged and infirm. It always furnishes abundance of thin, and very acrid difcharge, especially if the furrounding fkin is affected, rendering the limb intolerably painful; and when the dreffings are removed, frequently emits a fleam like boiling water. I have known poultices and fomentations used a long time to no purpose; the ulcer either not healing at all, or breaking out in fresh places almost immediately, and the pain still increasing. Purges likewife are here of no ufe; as to medicines, opium and bark feem of the greatest avail: the pain muft be mitigated, and the habit be ftrengthened. The dreffings fhould likewife be calculated to prevent fluxion to the part, or but little advantage will be gained ; and in this fpecies, I have never feen any harm from fuppreffing the difcharge, though the remedies fhould increase the pain at their first application.

* "Edros payedanviror, or Noun of the Greeks.-Ulcus depascens, rodens, or ferpens; ulcus ambulativum; ulcus putridum, et phagedanicum.-L'ulcere putride.

Having,

Having, in bad cafes, made ufe of a mild fuppurative poultice for a fhort time, to cleanfe the fkin, and empty the little inflamed and obftructed glands; by promoting their fuppuration; I always apply fome digeftive to the deeper parts, for two or three days. After which, they may be dreffed with an ointment made with as much true armenian bole as Goulard's cerate will take up, or a cerate to which fome fine crocus martis is added, inftead of the pulv. lap. calamin : whilft the whole limb, when the fkin is affected, fhould be well dufted with the fine powder of bark, or covered with the unguent. deficcat. rubrum, and after a while, with a compress wetted in the drying folution, made with facch. faturni and vitr. album, formerly mentioned," to avoid loading the fkin with the ointment. With fuch applications, it will fometimes be ufeful to give the cicuta, and aq. calcis minus compof. or the Lifbon diet-drink, where the pain has been fo far abated as to admit of laying afide the opium, and there is no peculiar indication for the bark. But if the above externals fhould fail, recourfe muft be had to the affringent folution, or ointment, I shall prefently make known, + which will certainly be effectual; and may, I hope, in many cafes, prove a valuable addition to chirurgical pharmacy. This is of itfelf, the remedy for those small ulcers attended with fuch an affection of the fkin, as will caufe a fteam to rife from it like boiling water, which, after

* Page, 106. + See Pages, 140, 142.

applying

applying a poultice a few days, I am not afraid of fuppreffing by these means; and indeed have found medicines incapable of doing it.

Where almost the whole leg has been affected, a fcurf, or fcab, will remain for a confiderable time, which must not be hastily rubbed off. . But the parts may, now and then, be touched with a little unguent. cærul, mit, and at other times be washed with the drying folution till the feales fall off of themfelves, or are very eafily feparated; at which time the fkin will be found, and perfectly fmooth underneath. In all fuch cafes, a piece of oil'd-filk fhould, now and then, be applied under the roller, about the time the fcabs begin to loofen, though fome of the fores fhould not yet be healed up ; which will haften the feparation of the scales, and take off the stiffness of the limb. This flould likewife be worn for a flort time after the cure is compleated, which it will contribute greatly to the continuance of, but must occasionally be laid afide, if it induces too great moisture on the fkin; and the flannel roller be continued.

There is a fimilar, but lefs violent affection of the fkin, attending not only this, but fome ulcers of the former clafs, which may be treated in a manner that may appear ftrange on the firft mention of it, but is perfectly fafe. This is lightly dufting the fretted parts with precipitate very finely levigated, which fo far from increafing the difcharge, or aggravating this fpurious inflammation, ufually checks them very foon; which it is evident fuch a remedy cannot do improperly. I was myfelf furprized at the firft good effects -128

fects I experienced from it, after the afore-mentioned drying applications had proved lefs friendly to the parts than ufual. This appearance of the fkin in common fores, happens generally in the cafe of fmall angry ulcers, where upon the healing up of one or more, others conftantly break out; which nothing I have ever tried, fo often prevents as the treatment here recommended. But should any of the excoriated parts get deeper under this treatment, and a little ulcer be made, it will always prove lefs ill-conditioned than those which had been fpontaneoufly formed, and will be fooner healed than thefe angry excoriations would be, by any fedative, or drying applications. The difeafe feems to be in the febaceous glands, the nature of which, fhould feem from the remedy, is an atonic, rather than phlegmonous difpofition of the parts.

FROM these I pass on to the phagedenic ulcer; in treating on which, perhaps every thing will be faid, that can be neceffary for any other large and troublesome fore, classed under this general division,

This ulcer is always attended with an obfinate callus on the edges, and on fome parts of its furface; is often ftreaked with red lines, and is foul, glaffy, and fmooth, or refembles a n wly made wound, where a portion of flefh has been rudely torn away by the bite of an animal. It is very eafily offended, and often fpreads and eats like a canker, on the application of common efcharotics,* (which, indeed, it

* See FREKE's Art of Healing. See also PAREY from GALEN, " nam

it will fometimes do under any treatment) the acrid matter either diffecting its way between the muscles, by deftroying the cellular membrane, or elfe eating through the fkin. Its edges always put on an irregular, and unkindly appearance, are often fwelled, and ftreaked with blood-veffels like the bottom of the fore, and are disposed, from their laxity, to bleed upon the flightest touch. This ulcer generally takes place in the very poorest people, whose blood is broken down by hard labor, or intemperance; is very difficult to cure, and when very large often baffles every attempt of the best hospital furgeons.

There are, however, more ways than one of fubduing many of these obstinate fores, and to this, the free exhibition of the bark will greatly contribute. The efficacy of this medicine may frequently be greatly increased by being joined with aromatics, or in women whose menses are obstructed, with chalybeates; which especially in that form prescribed by the late Dr. Griffiths, is, perhaps, the best remedy in chlorotic, and other cachochymic habits, ever administered.

Where the patient's fituation will conveniently admit of reft, (though indeed the remedies may be administered without it,*) a fomentation used for a I

** nam diuturnior, et copiofior ficeantium, et detergentium ufus,

" ulcera excavant indies; quare (fays he) prudens videbit medicus,

" quando à valentioribus detergentibus, et corrodentibus ad mi-

15 tiora fit digrediendum," Cap. 9. Lib, xii.

* The different intention with which a common bread and milk poultice,

few days, and the fuppurative cataplasm,* supported lightly by a flannel roller, about a week longer, never fail to leffen the most troublesome symptoms, and so far to subdue them, as to render this ulcer more tractable under ordinary means. That kind of dreffing, besides every other advantage, has that of absorbing, and therefore, sheathing the corrosive, and caustic discharge, increased by most other dreffings, to the great aggravation of the fore.

When the callous edges become foft, their inequalities are removed, and a fine fkin begins to cover them, the poultice may be difcontinued, and the ulcer be dreffed with fome mild fuppurative ointment, with the occafional addition of a little faturnine cerate, which is peculiarly friendly to this irritable fore, or fometimes, the cerate made with crocus martis; but more frequently, the beft application, in this ftate, is Goulard's cerate and bole juft now mentioned. By

poultice, and that now recommended, is made use of, is such, that although the former is feldom of much fervice, unless it be preferved warm, by the patient being confined to his bed, the latter, from its potential warmth, will answer tolerably well when lightly supported by a flannel roller, though the patient be suffered to walk; which he may do, not only about the house, but to the furgeon's to be dreffed, or examined, as I have repeatedly proved.

* See page 108.

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⁺ Befides experience, fuch ointments have the fanction of all the old writers from the time of GALEN, who conftantly advife fome preparation of lead with the abforbent earths, or other powder, for this malignant and eatin, ulcer.

thefe

these means the ulcer will become manageable, and will foon bear more effectual remedies. This period may be known, both by the appearance of the fore, and by, now and then, mixing a little red precipitate with the digeflive, or by dreffing with the unguentum citrinum. If the ulcer will bear these, a very few days will produce a wonderful change, healthy granulations will fhoot, the remaining callofities will difappear, (which may be haftened by repeated fcarifications) the hollow parts will fill up, and, probably, no farther difficulties will arife. And here, I must return to the caution, festina lente, which can fcarcely be too often repeated with regard to ulcers on the lower extremities. But whenever gentle escharotics, and powerful digeftives are found to difagree, recourfe must be had to lenients, either fuch as are above-mentioned, or at times more fuppurative ones, according to the particular appearance of the fore; now and then interposing a dreffing with a little precipitate, or fprinkling the fore with lapis calamin. and myrrhe, whenever the cure feems to be at a ftand.

By thefe means I have fucceeded in very troublefome ulcers of this fpecies, though perfectly intractable at firft with every common digeftive, and abhorrent from ordinary deterfives; and I believe they will generally fucceed very well if the ulcer is fmall: but if it be very large, it will not always be healed by them, without reft, the bad confequences of which have been often adverted to. Mr. Freke, indeed, in regard to thefe cafes, has fpoken very politively of I 2 the

the effects of his fuppurative poultice, but it will certainly prove infufficient when there are large fungi, or of very long standing. The difease often runs too deep, with too hard a callus, to allow the parts to get unloaded, and however fuppurative the poultice, it is not active enough to answer the end. The hardened parts, however, must be removed ; and it may be proper in this place, to hint at a method of treating them that is often preferable, becaufe much lefs fevere, than the cautery, or total excision with the knife. It is true, a fungus but rarely occurs, fo as to prove troublefome, under the plan I have mentioned, and which both the bandage and exercife have an uniform tendency to prevent; yet it fometimes happens that a large and hard fungus is formed ready to our hand, and is generally the confequence of a bad bottom to the fore. If this arifes from a narrow neck, it may often be removed by preffing fome fine lint pretty firmly round its bafe; or if this fail, a tight ligature may be eafily paffed round it. But if the bafis be large, and it fhould not feem difpofed to yield to digeftives and bandage (which the fofter fungus generally will, as the bottom of the fore is lefs frequently unfound,) it will be fufficient, in most cafes, to make one deep incision to its bottom, after which its fides will frequently wafte away by digeftives and bandage : but fhould this prove infufficient, efcharotics fhould be fprinkled between the lips, and be occasionally repeated, till the fungus shall subfide. This effected, proper digestives should be continued; by which the difcharge will be kept

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up,

up, and every thing Mr. Freke expected from his fuppurative poultice will be happily accomplifhed, without the baneful effects of reft of the limb; and without it, he never looked for a cure.

The large phagedenic ulcer is the only one that will create any great difficulty to the experienced furgeon; finall ones, of whatever duration, and whatever may be the age and conftitution of the patient, as far as I have feen, are healed by the above means, with eafe, expedition and fafety, after having withflood a variety of others under a tedious confinement. And many common large ulcers, though deep, with difease of the skin to a confiderable extent, it has been faid, are cured in a very reafonable time, and require nothing but patience; I mean require the caution fo frequently given, not to be anxious to heal them entirely, till the furface becomes perfectly good, and they are disposed to it with any common dreffing. But the very large phagedenic ulcer, which is eafily put out of humour, and difposed to spread on every little occasion, is that which will prove the skill, and fometims try the patience of the furgeon.

However, from what I have known, I can venture to recommend a method to others; though it is confeffed, want of opportunities has limited my experience in the worft fores of this kind,* which falling

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* In one of the Medical Journals, anno 1785, we have a particular account, by Leonard Gillespie, of the wonderful efficacy of lemon-

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to

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to the fhare only of the pooreft people, are feldom feen but in large hospitals, which I have therefore occasionally visited, purposely to make observations upon ulcers on the legs, by comparing fome of the worst cases with those I have been concerned for. The poverty, and evil custom of these patients, indeed, greatly aggravate the complaint, and though the plan recommended be ever so well adapted to the disease, want of compliance on their part may render it abortive; and it is possible, there may be some cases will yield to no treatment whatever.

If very active applications are used, in the form of an ointment, these are often most advantageously applied to the large, and irritable fore, upon a thin piece of sponge; by which means very detersive ointments will agree very well for the short time they are necessary, when they would otherwise eat the

lemon-juice, as a dreffing for the fcorbutic, or putrid ulcer amongft feamen; and the public has been favoured with a like account by *Dr. Blane*, in his treatife on their difeafes. How far this application may be ferviceable in what is termed, at land, the putrid, or phagedenic ulcer, I have had no fufficient opportunity of experiencing fince I have been acquainted with those publications. However, from the good which I conceive has been effected from a mixture of lemon-juice and treacle, it appears probable, that lemon-juice alone might be very ufeful in fuch fpreading ulcers, particularly from its tonic qualities; a circumstance of great importance, as will prefently be noticed. At any rate, however, defirous as I am of throwing every possible light on the treatment of ulcers on the lower extremities, I thought it proper to communicate this practice to fuch readers as may not have feen the ufeful publications that first recommended it.

ulcer

ulcer into holes, and give it a raw, dry, and indigested appearance. I received this hint, from what Freke fays on his poultice, that it abforbs the acrid discharge, whilf it conveys to the furface of the ulcer a fuitable application. This led me to reconfider the very frequent use the ancients made of fponge, which is one of the many valuable remedies of antiquity, that the moderns have indiferiminately difcarded ; though it is in many cafes, one of the fitteft means of conveying apposite dreffings to a fore, that was ever devifed. It is liable to no poffible objection that I know of, in point of utility, if not made use of too long, and which every furgeon will know how to avoid.

There is, however, a very bad phagedenic ulcer, and always a large one, that diflikes almost every thing in an unctuous form, at least will not be healed by fuch applications, till brought into a different state; that is, till its surface is braced .- There is here, I apprehend, no virulent humor, as is ufually fuspected, no virus that wants to be discharged at the fore, nor an irritans aliquid which nature cannot otherwife get rid of. Facts demonstrate the contrary, for not only do patients enjoy very good health, after getting rid of the ulcer and their limb together, by undergoing a painful operation; but the cure of fome of the worft of them, proves fuch ideas to be rather apologies for the want of fuccefs, than founded in the reafon of things. Sores have been, and are healed by empirics, under all circumftances, and no fuch dreadful evils have enfued; but we have not known

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known their art, and have contented ourfelves with fuppofing it to be unfafe, and disputing the propriety of a cure we have not been able to effect !—*Hic labor*, *hoc opus eft* !

This I would flir up my brethren to attempt, and am perfuaded they may fucceed oftener than it is imagined; and perhaps the most rational means is to remove the local affection, a relaxed, and therefore irritable flate of the parts. That this has been frequently the great obstacle to their cure, it were easy to prove by a variety of observations taken from healing fores, and from such as having promised well for a while, and then looking pale for a few days, have run into a gangrene; or at least have continued at a stand—but I am fatisfied, every experienced furgeon is before hand with me, and is inclined, at least, to suppose it probable, that the hint may be just.

It is not defigned, however, to dry up ulcers on the legs, as one would a fcratch on the finger; the veffels of the part are first to be freed, and the ulcer properly digested, and deterged; escharotics are to be applied if found necessfary, and the fore to be treated as directed in the former part of this work, so long as nature is disposed to be active; but the moment she flags, or cannot be rouzed to a falutary exertion, by stimulating applications and exercise, (or whenever such applications offend,) the inference is as obvious, as an attention to it never fails to be useful. The fore is to be braced, and the parts disposed to contract; the certain consequence of which will be a fresh, and healthy appearance of the ulcer; a pretty

a pretty fure fign we have not miftaken the cafe, and that the means we are ufing cannot be wrong.

But if this be attempted too foon, the plan is perfectly irrational, and the cure will not be accomplifhed, or cannot be expected to continue. For this reafon I have objected to the early use of those drying applications, which fome empirics have entirely depended on ; as well as against dreffing ulcers with aq. vegitab. miner. dry lint, and covering the furface with lead; which I may venture to fay, would, at leaft, be used with more fafety and fuccess at a later period, when fores are well cleanfed, and nature flags under fruitless efforts to cover a large furface she cannot first sufficiently contract. And here, I cannot but remark, that there are but very few parts of the body, on which we meet with fores fo large as those on the legs, where the whole furface is to be covered with entire new skin. Surgeons are always careful to preferve a great deal of fkin when they take off any of the larger limbs, or a tumor of any confiderable fize; by this means, although the ulcer, a few days after the operation, may have been very extensive, the cicatrice at last is often not larger than half a crownpiece, or even a fhilling : and it is on this account, that large furfaces are fometimes fo readily healed. But there is frequently great difficulty in thoroughly clofing a fore occafioned by a burn, on any part of the body, when the true fkin and adipofe membrane have been deftroyed to a confiderable extent. * Such cafes,

* In fuch inftances, though a patient be ever fo healthy, we are

cafes, in this refpect, approach the nearest to the ulcers in question, of which the old skin can be brought over only a small part of the surface, and the reft is covered entirely by new. In all such cases, the astringent lotion already hinted at will wonderfully affiss the cure, by enabling nature to contract the surface, and lessen the dimensions of the fore.

But however, and whenever bracing applications are used to the legs, they should not be continued throughout the cure, nor longer than is absolutely neceffary; but being gradually weakened, the last stage should be effected, if possible, by ordinary means, and with the cautions laid down in the foregoing pages.

The folution may freqently be made use of merely to wash the furface of the fore, or fometimes may be applied on a piece of double linen, (for lint flicks too close to the furface) its edges, (in very bad cases) being first spread with any mild cerate, to prevent them from adhering too tightly to the skin, and thereby confining the discharge; and should therefore be fomewhat larger than the ulcer. There are, however, fome very large fores that require a more effectual method, and the folution is more advantageously applied, for a short time, on a thin piece

are apt to fay, that the conflicution long accuflomed to the difcharge, is thereby indifpofed to fuffer the ulcer to clofe. But it is very probable, it may often be better accounted for, on the principle just now mentioned.

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for L. Sain inhanas, though a patient Le er

of fponge; but as the fore contracts, and becomes dryer, the granulations are apt to fhoot into it, and the furface will bleed on taking it off. A flice of new bread may then be fubstituted, a little time longer, in its flead, which will equally abforb the acrid difcharge; but this will be neceffary only when the fore is yet very large, and has been much difpofed to fpread, or very unwilling to heal. And should we, now and then, meet with a cafe, wherein the application of the folution upon bread, may feem neceffary for many days together, as this may be thought an uncommon, and awkward manner of applying a dreffing, the vitriol, which forms the bafis of the folution, may be mixed up with a proper quantity of oil, and made into a mild cerate, or ointment; with ingredients more or lefs fuppurative, or otherwife, according to the particular circumstances of the cafe. But above all thefe, bathing the limb for a quarter of an hour before each dreffing, in a tepid folution of the calcined vitriol * fhould be made trial of; an expedient I was not acquainted with when the former edition appeared. But if none of these difficulties appear upon leaving off the dreffing with fponge, a piece of linen wetted in the folution, may be laid on the fore; or even washing it with the folution may now be fufficient, and a mild digeftive, or in very obflinate cafes, the cerate with crocus martis, or Goulard's pomatum and bole, be applied

* See page 142.

to its furface. To this, a little precipitate, or corrofive fublimate, may fometimes be added to advantage, if an ulcer has hitherto been in a very irritable ftate, and it is apprehended may not have been perfectly digefted.

Some of these phagedenic ulcers with a very large furface, and of very long standing, are of a nasty greenish hue, exceedingly foul and indigested, and fo painful that they cannot endure the tedious procefs of ordinary deterfives, but as hath been observed, are exceedingly aggravated by them : they will fometimes, indeed, be benefited by the application of the theriaca venet. but are very apt to prove foul again. They may be cleanfed, however, in one or two dreffings, by fome fuch lotion as the aqua phagedænica, for the lotion that paffes under that name, is too ftrong to be fafely applied with freedom to very large furfaces. * Or, if ointments containing mercury are thought proper, the unguent. citrinum is one of the most powerful, or an ounce of ung. bafil. flav. with a fcruple of the mercur. corrof. fublim. will form an excellent deterfive. But it fometimes proves a very painful application, and ought never to extend beyond the fore, as it may blifter the part all around, and bring on an eryfipelatous inflammation.

The lotion I just now hinted at, is, indeed, genenerally preferable; this I have called a deterfive

* It is likewife a very inartificial preparation, formed upon erroneous principles, by which the intention is very much fruftrated.

lotion,

lotion, todiffinguish it from that I formerly mentioned, and confifts of a mild folution of fal. martis, with a very fmall portion of merc. corrof. fublimatus; a thick piece of crumb of new bread well foaked in this folution, and bound on the fore at going to bed, will often cleanse it in one night, and produce a discharge of as laudable pus as the furgeon can with for ; nor will frequent repetitions be neceffary. It will then be fufficient in general, to wash the ulcer with it before the ordinary dreffings are applied. But fhould the ulcer fpread again after a while, though it has been perfectly digefted, and looked as well for a time, as a common fore on the arm, recourfe must be had to the first mentioned lotion. The loofe flabby furface must be braced, and contracted, (and this is fitly done by aftringents, which invigorate and warm without relaxing) which every furgeon knows always produces a fresh and pleasant appearance, lightly granulated, but without a disposition to bleed upon every touch of an armed probe; which by the bye, is fometimes used more freely in wiping the furface of fores than is fafe, and generally much more than is neceffary.

This lotion is very fimple, yet is exceedingly deterfive, and by means of its bracing powers, gently corrugates the furface, and by kindly urging nature to action, gives the fore a florid and flrawberry appearance, but without leaving that drynefs upon it, which common aftringents, and particularly allum, always induce. And it may be neceffary here to obferve, that though applications merely aftringent or drying,

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drying, are in general very improper, for reafons that have been repeatedly hinted at, experience proves there are fome things of the aftringent kind, which are likewise deterfive, that may frequently be used with advantage and fafety. It was not, however, without long attention to the fubject, and numberlefs attempts, that a fafe and fuitable preparation has been discovered; such an one, as will not only brace, but cleanfe the fore, and preferve a pleafant appearance of its furface, whilft it difposes it to heal; fuch an one, as according to the ftrength it is made of, will abate, or preferve the discharge, will stimulate the rifing granulations, and urgenature to exert herfelf, or will more powerfully corrugate its extreme veffels, and difposing them to contract, prepare them to cicatrize at the edges of the fore.

Such, it is thought, is the folution frequently hinted at, and that it will often answer all the purposes required in many obflinate ulcers. It may fafely be used to every very large one, and in perfect confiftence with the plan of not compelling them to dry up, if it be not used too early, or continued too long; and which the prudence, and experience of the furgeon will determine. This is made of the vitr. virid. ad albitudinem calcinatum, diffolved in aq. font. and prepared of fuch a ftrength, according to the nature and extent of the fore, as the practitioner shall think fit. But it fhould be only in the hands of furgeons, who will vary its aftringent quality and ftrength, to the circumftances of the cafe, and will not attempt to dry up old ulcers in the mode of empirics : for if made of an improper strength, it becomes a very different

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ap-

application, and will alone induce a fkin on the furface of many ulcers that are yet in a very undigefted ftate, and unfit to be healed—but fitnefs and fafety are not always the objects of that clafs of practitioners, and to whom therefore a little knowledge is a very dangerous thing.

Thus far fome experience may be faid to have gone, but how much farther this plan may with fafety and advantage be extended, it is time only can prove. It has been obferved, however, that my experience of its advantages over every other method hitherto made public, has been greatly confirmed fince the former edition of this work; and I have therefore farther ground for hoping that the treatment laid down in these pages, may be applied to ulcers attended with caries of the bone. At leaft, when the ulcer is only of a moderate fize, and the injury has not penetrated fo deeply, or the pain and inflammation are fo great, as to render a very long confinement abfolutely neceffary, the methods propofed feem to promife fuccefs; though my own experience may not warrant me to promife it where the caries is confiderable. And allowing only a certain time of confinement at a neceffary period, when the bone is exfoliating, (which may be haftened by flight perforations into the found part) exercise will have a very confiderable advantage through the reft of the cure; for as a degree of inflammation is the process, by which nature throws off fphacelated portions of bone, it being perfectly fimilar to that which takes place in the fofter parts of the body, I may venture to think this proccfs

cels may go on better, and if it fucceed, far more fafely, with moderate exercise than by absolute reft, as the cure is likely to be more lafting. We know how much can be done, even in the foul air of an hospital, under the hands of experienced practitioners, in some very bad cases; though this is certainly fometimes prevented by the closeness of the place, or the patient accidentally taking a fever.* If these risks could be avoided by the patient being, with fafety, permitted to take as much exercise a part of the day, as might maintain him during his cure, perhaps now and then a limb, or a life might be faved; or, at least, the attempt, it is hoped, might be justified.

But after all that can be faid, the neceffity of amputation, in fome cafes, cannot be difputed; but I am daily more perfuaded, there is good reafon to hope fuch will not often occur, after this method fhall have been for fome time adopted. For patients will then have been informed, that fore legs are cured without confinement from their families or labor, and that fo cured, they will not be afterwards liable to return, but from the fame caufes that produced them at firft. Thefe confiderations will, probably, encourage moft patients to feek advice very

* Befide these difadvantages, there is another very common in hospitals; which is the custom of taking off the dressings from fore legs, sometimes an hour or more before they are dressed up again. The bad effects of this practice must be evident to every man, but, will be more fo, by comparison, upon leaving it off.

foon,

foon, and though fome of the poorer amongst them fhould procrastinate longer, many of these may nevertheless get effectual help when they apply; which will be likely, at least, to prevent the dismal effects of a mere temporary cure.

BESIDE the few cafes which, but for amputation, are beyond the reach of art, others have been mentioned, which manifesting the existence of internal disease, with morbid affection of some of the viscera, where it has always been presumed an external drain must prove ferviceable, it may become a matter of doubt, whether their cure may be fasely attempted,* or the substitution of issues be a sufficient supply in

* Ulcers attending the leg in old people, ought to be looked upon as critical, and therefore should not be healed. LE DRAN. So HEISTER, and many other eminent writers .- The opinion of AVICENNA is fo very emphatical, I hope I shall be excused if I give the quotation. " Sed in fenioribus non fanantur eorum ulcera-et quandoque fanantur, deinde rescinduntur, quoniam non generatur in eis caro, nisi ante mundificationem; quando ergo retinetur in eis superfluitas non munda, oportet inde ut corrumpatur continuitas proveniens fecunda." De Ulcerib. Lib. iv .- I have ventured, however, to cure ulcers of many years standing in very old people, and one many years ago in a lady upwards of eighty years of age, whom a very eminent furgeon had cautioned against fuffering it to be healed ; all of whom have fince enjoyed good health, and the ulcers have fhewn no difpofition to break out again. This practice has also the support of Mr. Bell, who though fo great an advocate for iffues, confiders fore legs, except in cafes of specific infection, merely as local affections.

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A TREATISE UPON

146

their stead. Here the physician ought to be confulted, and, indeed, it were to be wifhed this were much oftener done in furgical cafes, than it is; he would furnish the furgeon with fome useful hints on various occafions, and whilft they would proceed pari paffu together, the patient would not have to repent it in the end .- But in the prefent inftance, fhould they be of opinion that the difcharge from a large iffue would be inadequate * to the drain from the ulcer, they may perhaps be in the right, and the patient will probably chufe to err on the fafe fide. There are certainly facts which favor either fide of the argument, and therefore fome latitude must be allowed, and the diferetion of practitioners must determine in particular cases. Wiseman, for instance, gives us a remarkable one (Book ii. ch. 9.) of a young woman afflicted with a bad ulcer on her leg, which for a long time refifted all the means used by himfelf and others, on account of suppressed catamenia, which periodically occafioned a foulnefs of the ulcer; till at length the fore being healed by the affiftance of

* See BELL, On Ulcers, Part ii. § 2. on the nature and quantity of pus difcharged from a common iffue—add to this, the very moderate difcharge many ulcers furnish when left to themselves, or dreffed as they usually are by paupers, with a little very bad terat. epulot. But reasoning from facts, it appears full as probable, that the advantages of natural, or artificial drains, arife more from irritation, than the discharge from the fore. See Introduction, pages 31, 32.

a laced-

a laced-flocking,* the woman enjoyed perfect health, and the menfes foon afterwards returned in their natural courfe. Suffice it to fay, that great numbers have been cured where the bad confequences apprehended have not enfued, and as far as I could learn, very few have ever broken out again.

Some Caution however is neceffary, but it confifts in very few things, viz. Purging, Temperance, and continuing the Bandage for fome time.

THOUGH purging has been fo ftrictly forbidden, with a view to invite the ulcer to heal, during which procefs, to prevent conflipation is all that, in general, fhould be aimed at; yet when the cure is nearly accomplifhed, fuch a courfe is fuggefted with the greateft propriety. A few brifk purges, at convenient intervals, fhould at this time be directed, according to the age and ftrength of the patient. The

* That this, and many of WISEMAN'S belt cures were effected by a tight bandage, and often by a free use of precipitate, is exceedingly apparent.—Speaking of ulcers with great loss of fubflance, which he dreffed with basilicon mixed with precipitate, (which he there observes he usually carried in his falvatory) he expresses himself thus.—" I then rolled it up with expulsive ban-" dage, the cure indeed confisting mainly in the well-rolling—by " the use of it, both the influx was taken off, and the member " firengthened." And again cb. wiii. on the ulcer with callous lips, he fays, " the speedy cure of this I imputed to the laced-" flocking, it performing all the intentions neceffary to the curing " of many fuch like ulcers."

roller,

roller, it was faid, fhould be continued for fome time; the fize and duration of the ulcer, with fimilar circumftances, which every furgeon will have refpect to, will determine the length of this period; for if the ulcer has been very large, and of long flanding, it will be neceffary to continue the roller a confiderable time. It need, however, be worn only for a few weeks during the night.

This is all that is required; advifing, however, that caution proper for every convalefcent, to attend to his general health, and to take a purge now and then, if a conflipated flate of the bowels fhould require it. To thefe, indeed, was added a caution to the intemperate, fince, doubtlefs, a certain manner of living, may render this, and the cure of any other complaint, of very uncertain duration. If men will tun quo ducit gula, they muft themfelves, and not the phyfician or furgeon, who has once or more cured them, abide by the confequences.

BY way of Conclusion, it may not be amils to bring the principal intentions into one view, as well as make fome apology for fo bold an attempt to fet afide the common remedies and applications for ulcers on the legs, and even to recommend a method, in many refpects diametrically opposite to those in vogue; as Exercise instead of Reft and Confinement; free generous Diet * instead of a strict sparing

* See Dr. KIRKLAND on the diet of patients, in his Thoughts "upon Amputation. Regi-

e, it performing all the me mons

Regimen; and strong Digestive Ointments rather than mild Poultices and cooling Cerates.

If the fuccels of a plan varying in fuch effential respects from any hitherto received, should justify the hope entertained, the advantages will not be inconfiderable to men of pleasure or o' bufiness, but efpecially to the fuffering poor, who croud the public hospitals much more on account of these diforders than any others. If they can be cured without being obliged to leave their families, and that labor by which their families are supported, it is thought one grand obftacle to their applying for relief in proper time will be removed : and the furgeon will doubtlefs be glad, on many accounts, to be faved the very difagreeable neceffity of receiving fuch objects into the hospital, most of whom may with more fafety and propriety, be cured out of the house. But important and defirable as is fuch a defign, the author is aware of the obstacles there may be to the extensive usefulnefs he has had in view, in rendering fuch a plan general amongst the very poorest and heedless part of mankind, who are feldom faithful to themfelves. Satisfied, however, of many advantages it will have amongft those of superior rank, and wherever patients can be depended on, he is confident fome good will be effected upon this plan, that has never been accomplished by any other. He only requests his brethren will condefcend to make use of the preceding hints, and allow a little time to prove the utility of the mode, and he doubts not they will find fuccefs enough K 3 to

to encourage them to perfevere, until farther improvements will be made by them.

He has, however, difcharged his part; he has delivered his fentiments as the refult of long attention to the fubject, and muft leave his readers to pafs what fentence they pleafe. In the mean time, it is his fatisfaction to have aimed at things, which it can be no crime to have attempted though his defign fhould not perfectly fucceed; whilft to have concealed what was judged likely to be of fuch public utility, would have been criminal in the eye of every benevolent mind.

It may be proper to add, that it has not been his defign to intimate that other furgeons are without their fuccefs in these cafes, fonte of whom he knows have paid particular attention to them; and fhould any know already as much as he has to fay, and be able to heal old ulcers without confinement, or probability of their return, it is pity the public has not been made acquainted with it. It would have faved the compiler of these fheets some trouble; who had no fuch defire of appearing in public, as needlefsly to have exposed himfelf to the hazard of censure, for opinions he has supposed novel among regular practitioners. To fuch he now fubmits the foregoing pages, perfuaded they contain fome improvements. But should they, after a longer trial, be found inadequate to the end, and any other method be pointed out more rational, eafy, and certain, it will be the duty

ULCERS OF THE LEGS.

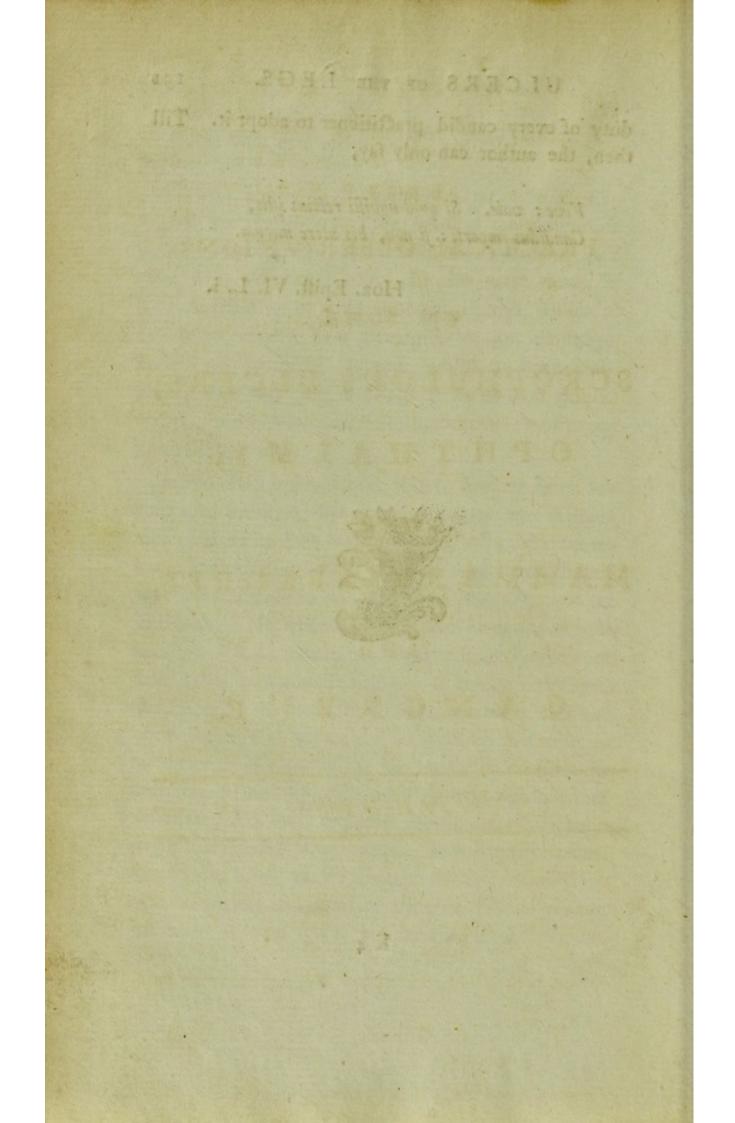
duty of every candid practitioner to adopt it. Till then, the author can only fay,

Vive : vale. Si quid novisti rectius istis, Candidus imperti : si non, bis utere mecum.

Hor. Epift. VI. L. i.



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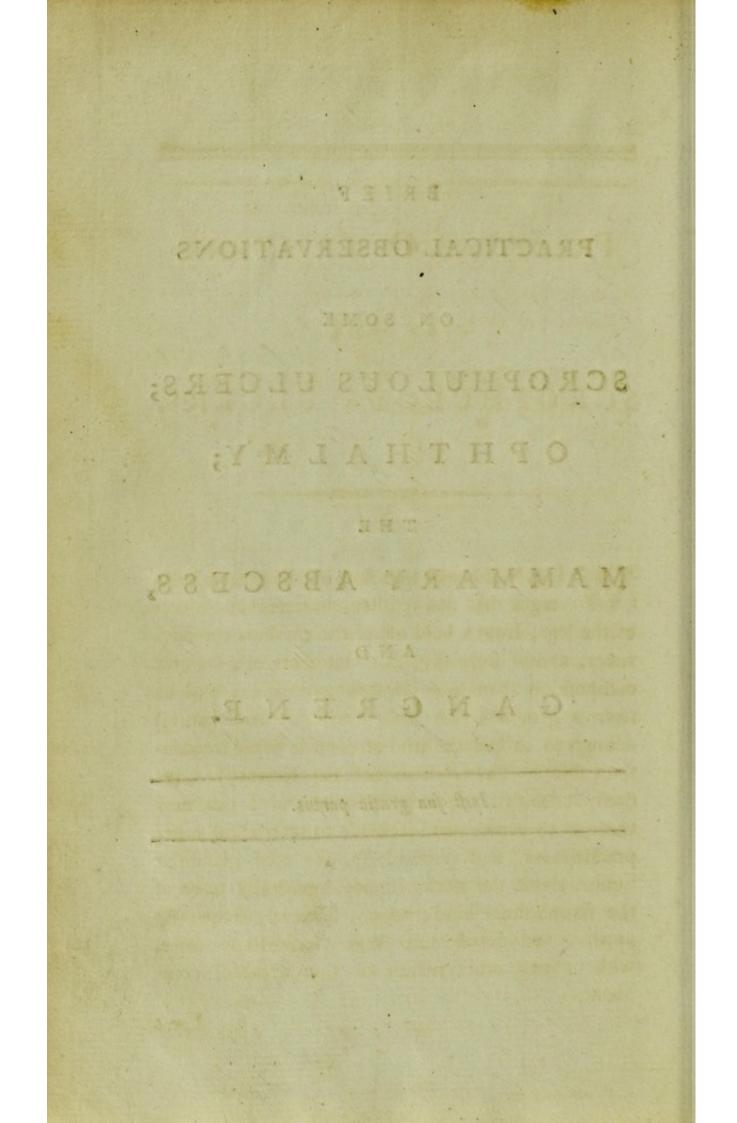
BRIEF PRACTICAL OBSERVATIONS ON SOME SCROPHULOUS ULCERS; OPHTHALMY; THE

MAMMARY ABSCESS,

AND

GANGRENE.

Inest sua gratia parvis.



PRACTICAL OBSERVATIONS

UPON SOME

SCROPHULOUS ULCERS.

7 HEN I began to reflect on the great advantages that had refulted, in many bad ulcers of the legs, from a bold use of the mercur. corrofiv. ruber, and of fome digeflive ointments of a warmer composition than those in common use, as well as from a generous diet and exercise, it was natural enough to extend the trial of them in other troublefome fores. The refult of these experiments has, indeed, exceeded my expectations, and I can now venture to recommend them to the trial of other practitioners, and particularly, for cold glandular tumors about the neck, fuppofed generally to be of the fcrophulous kind; which, however, frequently appear, and break into very troublefome fores. without any other marks of that dreadful complaint.

I was farther encouraged in these attempts, by fome observations of the late Mr. Freke; who indeed was a man of a lively and warm imagination, and fometimes a little eccentric, but was, nevertheless, a thinking man, and had plausible reasons to affign for every part of his practice. His ideas of these cases (as well as of diseased bones) ferved to confirm me in the opinion I had entertained both of the disease and the remedy.

I have now, for fome time, used the precipitate with great freedom in fcrophulous affections of the neck, and to very great advantage .- If the fwellings are at all difposed to come forward, but are not broken, or have only a fmall orifice, I always haften the maturation, and the diffolution of the fkin as far as it is difeafed, by means of epithems made of honey, flour, and yolk of egg, to which also may be added a little yeaft. I am very little concerned to what extent the fore may run, as I know I fhall have much diftempered gland to deftroy underneath, and that if the latter be not effectually done, the fore will either not heal entirely, however fmall it may become, or will foon break out again. The fcars, however, are even finaller, than when the ulcers are treated in the ordinary way. For the fkin, in this part, being thin, frequently loofe, and yielding, the tumor beneath it removed, and the fores healing up much fooner than under the lenient method, I have known them, when cured by the above means, leave no more than a feam, and a little rednefs to be

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SCROPHULOUS ULCERS.

be observed afterwards, without any proper scar on the part.

The only difagreeable circumftance that can attend fuch a practice, I apprehend, is the poffibility of a falivation, of which I can fay only, that it has never happened to me; though before I relied fo much on external means as I now do, I have given mercurial medicines in finall dofes, for a confiderable time, whilft I have made use of precipitate daily with great freedom. Moreover, as it is very common to preferibe fea-water, or fome other laxative, in these cafes, the risk of a falivation, I imagine, will in general be very little. But should even symptoms of it appear, every practitioner, as he will know the cause of it, will immediately take care not to increase it.

I am now, however, perfuaded, there will generally be little or no occafion, for administering mercurials inwardly, or any other medicine under the idea of an alterative, (at leaft, I am afraid, we know of none peculiarly adapted to the difeafe) much lefs for frequent purges, which ferve only to reduce the vis vitæ, which, in thefe cafes, is always too languid already. I find likewife, the fores heal up as kindly without, as where mercurials, antimonials, cicuta, neutral falts, or fea-water are made ufe of, all of which I have formerly prefcribed with great freedom; and I doubt not that the plan I mean to recommend, efpecially when this difeafe is confined to the neck, will be very frequently fuccefsful in the

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the hands of every other gentleman, who will give a fair trial to it.

If the patient is unhealthy in other respects, such medicines should be directed as appear fuitable to his complaints, when the bark will, I believe, be frequently found as useful as any; and I have found evident good effects from a ftrong decoction of the woods, and crude antimony. But in a general way, I depend upon nothing fo much as procuring a good and early maturation of the tumors, and fuppuration of the diffempered fkin and glands, by means of the aforementioned epithem; a very bold and continued use of the precipitate; a nourishing diet, and as much exercife as the patient can well bear; efteeming walking the best of all. To this end, the patient should be encouraged to be continually on his feet, and abroad in the air as often as the weather will fafely admit of it; and of whatever age he be, after beginning this exercife in a way that fhall be quite agreeable. to increase it daily, till he shall go to bed every night thoroughly fatigued. Of the advantage of this,* I have had fuch proofs, as leave me no room to doubt of the propriety of venturing to recommend it, as far

* Nihil est, quòd utilissimam superflui et nocentis humidi perfpirationem tam egregiè juvet, quam motus corporisque exercitatio, qua tuendæ fanitatis vix præsentius datur auxilium.—Peregrinatio ad omnium falubritatem pertinet, quia non modo cum continuo motu, sed frequentiori etiam aeris infalubris in falubriorem mutatione conjuncta est, quæ tuendæ fanitati et corpori a pluribus morbis præservando egregiè velificatur.

HOFFMAN. De Motu optimo Sanitatis Præsidio. Cap. ix. et seq.

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SCROPHULOUS ULCERS.

as fuch experience may be fuppofed capable of doing it. And of this I recollect two remarkable inflances; the one in a lad who came to London exceedingly fcrophulous, and was hired to go behind the carriage of a gentleman, who was in it many hours every day. The other was the fon of an excifeman, who having very long walks, took the child, who was about fix years old, conflantly with him. Neither of these patients took any other medicine than a dram or two of *Epfom* falts, four or five times a week; yet both got perfectly well.

To obtain the advantages that have been hinted from the use of the precipitate, fcrophulous ulcers fhould be filled with it, and if a flough is formed by it, (which will not always be the cafe) the fuppurative epithem is the beft dreffing till the flough is thrown off; when the precipitate fhould be immediately repeated. The first, and a very early advantage, from fuch a use of it, will be a change in the discharge, both in quantity and quality, which from having been too little, or from an abundance of corroding fanies, will be changed to a moderate discharge of good and laudable pus; and the fore, except when a flough is produced by the application, will always look clean. In a little time there will also be a favourable change in the parts contiguous to the ulcer, the fwelling will fubfide, and from a red and heated appearance, the furrounding fkin will acquire its natural color, and the patient himfelf, or his friends, will be able to judge of the favorable turn in his cafe.

I have advifed a daily use of the precipitate, which, indeed,

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indeed, I intend almost literally; for when a good deal of the gland has been destroyed, the fore and furrounding skin will be found to contract under the use of it, as if an astringent application were made use of; and the parts will actually heal up to the breadth of a straw, whils this active mineral, which has already destroyed a cluster of distempered glands, is daily applied.

I have elfewhere taken notice,* that electricity has been found very ferviceable in these fores, and that it becomes fo by communicating powers to the parts. But it will be farther neceffary to remark, that it not only forwards maturation in fuch tumors as are previoufly difposed to fuppurate, but does it in the most advantageous manner, as well as expedites their healing, and often without fo much as a fcar. For tumors brought by this means to fuppuration, frequently break only into very fmall apertures, from which, however, the matter runs very freely by the daily use of electricity ; and when they are disposed to heal, the fkin on the furface becomes attached again to the parts below, and only perhaps half a dozen very fmall fpecks, in the form of fo many pin-holes, remain.

Since the former edition, I have had fome farther experience of the virtues of camphor in cold tumors, and I can now recommend it, in confequence of fuch trials, as frequently capable of difperfing fuch as have

Vide the Introduction to Treatife upon Ulcers, pages 13, 14. (Note.) long long been in a quiefcent flate, and not difpofed to fuppuration. Such tumors have fometimes proved exceedingly troublefome, on this account, remaining indolent after others have fuppurated plentifully. In this flate, oil well faturated with camphor, has become a very ufeful and fafe application, and by refolving the fmaller indolent tumors, ferves to compleat a cure, that would otherwife have remained imperfect, after all those had been healed, which the epithem had brought to fuppuration. Electricity likewife, though it forwards fome tumors, will affift the refolution of fuch as are not difpofed to fuppurate.

I KNOW it is an opinion with fome people, that fcrophulous fwellings ought not to be invited to fuppuration; though not from an idea that they will heal lefs kindly in confequence of early maturation, but folely from the difficulty of healing them whenever fuppuration takes place, and the abfcefs is burft. But fince fcrophulous tumors, and particularly thofe of the neck, almost constantly end in fuppuration, at one time or other, though not at all invited to it by art; and fince experience has proved the very confiderable advantage of bringing them to an early and

* This is likewife the beft remedy, I believe, for the incipient bronchocele, which it difperfes fometimes in the fpace of a few weeks, if very well rubbed into the part at leaft three times a day, and a piece of flannel well greazed with it, be kept conftantly to the throat. The patient at the fame time ought to take a dram or two of the Sal Rupil. every morning.

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OBSERVATIONS UPON

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copious maturation, which both prevents fo much of the glands being affected, and occasions a more perfect diffolution of that which is already diffempered, I can confidently advife the early use of the suppurative epithem,* in preference to every other remedy. unlefs it be convenient to make trial of fea-bathing. It will be a means of preventing many of the fad effects of leaving these tumors for months, and even years to themfelves, (as I have feen them) in habits of body fo ill-calculated to get rid of difeafe; and wherein medicine is univerfally acknowledged to afford fo little affiftance. one as doul to noitu

But should a scrophulous tumor in this part be unufually large, it may be treated in a fomewhat different manner; it should, however, be speedily brought to fuppuration, by the epithem already mentioned; or fhould this be done to our hand, as it will confequently contain a good deal of pus, the glands will thereby be already confiderably diffolved. On this account, there will not only be lefs occasion for fo bold a use of the precipitate, but the extent of the tumor being confiderable, it will be of confequence to preferve a good deal of the fkin, if there be no objection to doing it. Therefore, if that is not in a very bad state, (which it frequently indeed is, before large tumors fuppurate plentifully) it will be found very convenient to open the abfcefs, by making only

* Hence, prohably, it is that the Malvern-Waters have fometimes proved fo beneficial in these cases. See a note on the Malvern-Waters, in the Treatife upon Ulcers, pages 101, 102. cobicus

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SCROPHULOUS ULCERS. II

a puncture with a lancet, first at the top, and then at the bottom of the tumor, fufficient to pafs a feton through it; or it may be done at once by a fmall feton-needle, armed with a flender fkaign of cotton or filk. Befides every other advantage of this method of difcharging the matter, which will also be gradual, is the exclusion of air; a point fcarcely enough attended to in the treatment of absceffes. The feton being introduced, fhould be drawn up and down at leaft twice every day, and fometimes be moiftened with fome proper deterfive ointment; and occafionally fprinkled with precipitate. The conftant irritation of the feton, will tend to diffolve the remaining hardness of the glands, far more than any common poultice, which frequently ferves only to deftroy the fkin without affording that ftimulus to the parts underneath, which this fore always requires. The irritation of the feton will alfo difpofe the bottom of the abfeefs to throw up healthy granulations, the moment the hardness is diffolved, and the fore will thereby heal up kindly, more expeditioufly, and with much lefs fcar, than could be expected from the extent of the tumor; no more than the marks of the punctures, and a little rednefs of the fkin, as it was observed, remaining afterwards to be feen.

Should the punctures made by the feton, however, not be difpofed to heal in a reafonable time, after the filk is withdrawn (which fhould be gradual, by removing a few threads at a time,) and yet no frefh hardnefs take place, nor the difcharge be increafed;

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OBSERVATIONS UPON

the little orifices may be eafily dried up, by dreffing them twice a day with bits of lint dipped in a mixture, confifting of a little new milk, and a drop or two of extract. faturni, which by this means will be thickened to the confiftence of a liniment, and becomes a very ufeful application to many other very troublefome ulcers; of which I first faw the good effects fome years ago, in a very different cafe, under the direction of *Mr. Watfon.*—If the edges of the punctures become callous, a few touches with the lunar cauftic will fosten them, and dispose the punctures to heal.

If I might be permitted to offer any farther hints on thefe troublefome fores, and to judge from fome favorable circumftances joined to a little experience, I fhould hope the laft mentioned method may afford fome confiderable affiftance in fome fcrophulous abfceffes about the joints of the upper extremities, if the patient be likewife fent to the fea; which I have feen attended with the happieft effects. As for thofe on the lower ones, befides every other difadvantage they labour under, that of depriving the patient of good air and exercife, forbids me to expect any very material improvement upon the common method of treatment.

Thefe things are all I mean to propofe for thefe illconditioned tumors, which I believe, indeed, will often require no other affiftance. And I am perfuaded, more may be effected by them, and much fooner, than is frequently done by the various alterative medicines, and other means that are generally prefcribed; unlefs

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SCROPHULOUS ULCERS. 13

unlefs in fome inftances, it be fea-bathing, the great advantages of which are extreamly uncertain, and to be known only by the trial of it : every practitioner having found his utmost expectations exceeded by it in fome cafes, whilst in others, his patients have returned from the fea much worfe than they went there. At all events, the above plan may with propriety take place in the winter feason, when fea-bathing is thought by some practitioners to be attended with hazard, to delicate habits : or should even that be determined upon, the fores may be treated in the above manner at the fame time.

It is not unlikely, that fuch a use of the precipitate as I have now been recommending, may be already known to other gentlemen of the profession, but it is certainly not the common practice, nor has it, I believe, ever been made public;* and from what I have known myself, and been informed of by others, of the fuccess of ordinary means, I can venture to fay, that the cure will often be more expeditious and certain, as well as less unpleasant, if the plan should be generally adopted.—It is fearce necessary to add, that after the cure, or just before it is compleased, it will often be adviseable to open an iffue in some convenient part of the body, as well as to attend

* Since the first edition, I have observed in the *Praxis Barbet*tiana, that the use of escharotics is recommended as adapted to these fores; but it is mentioned only in a general way, as being ferviceable after lenient applications have been made use of in vain; which is a maxim equally applicable to most other fores.

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OBSERVATIONS, &c.

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carefully to the diet, and continue the exercise for a time .- Should the patient have been fubject to ophthalmia, or have other mark of fcrophula in the habit, thefe will be additional inducements for making a trial of fea-bathing, which he fhould not only continue through the feafon, but return to it the following fummer, if it has been evidently beneficial. Should a difposition to ophthalmy return, or other weaknefs of the eye take place, other remedies will be requifite, as will be noticed in the following tract.



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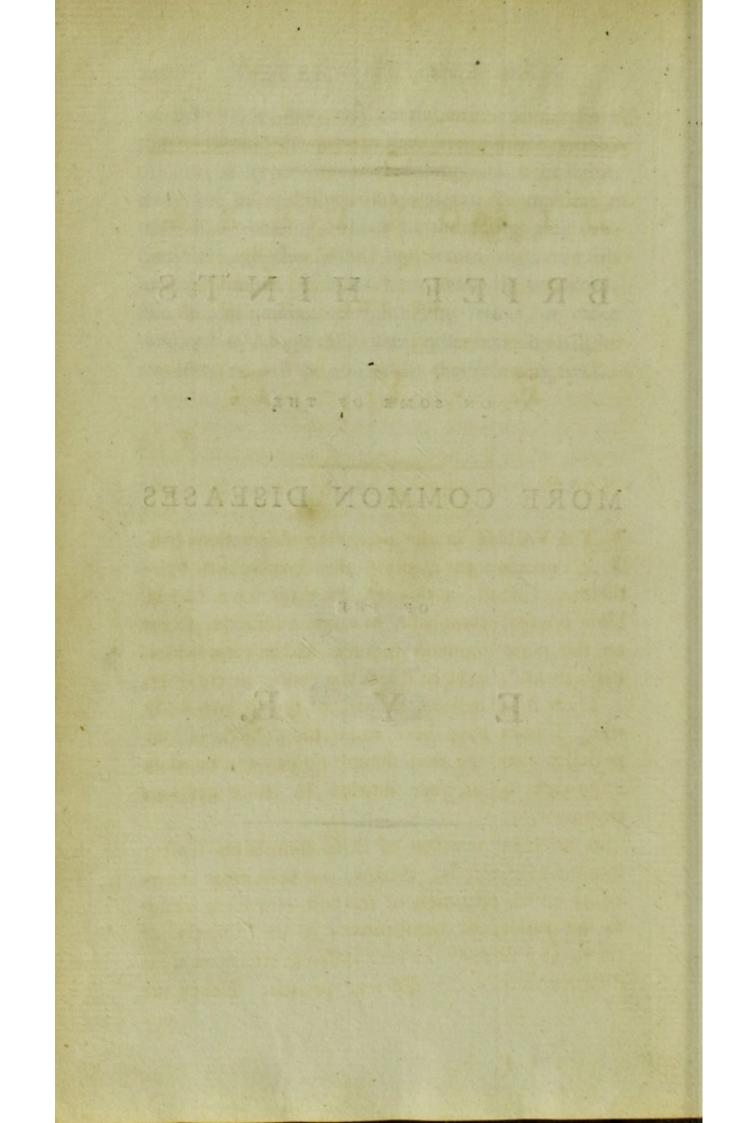
BRIEF HINTS

ON SOME OF THE

MORE COMMON DISEASES

OF THE

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DISORDERS

OF THE

H AVING in the preceding observations had occasion to mention the scrophulous ophthalmy, I shall in this edition drop some farther hints on that complaint, in a few additional pages on the more common disorders of the eyes, which may, at least, serve to direct the young practitioner.

There is, I believe, no part of the human body whole difeales have been more the fubject of empyricifm than the eye, though no part can be more important to us, nor intitled to more cautious treatment.

A principal occasion of these complaints lapsing into such hands, is, perhaps, the very great uncertainty in the operation of the best remedies, owing to the variety of constitutions in the subjects of them, as well as to the very different treatment these diforders require at different periods. Hence the

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DISORDERS

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numerous eye-waters we hear of (and fo much extolled by furgeons as well as by empyrics,) many of which, I doubt not, have been very ferviceable in their turns, but are all equally improper, as general remedies. This neceffary diverfity of treatment is, however, very well known to every good practitioner, though the precife period for a change in the remedies is not fo readily afcertained.

THE chief difficulty in the cure of ophthalmy arifes, I apprehend, from the great irritability of the organs of fight, and their difpolition to excellive relaxation; but between these also, there is a diftinction frequently to be made, that is of the greateft importance, but has not, I think, been very generally observed. These symptoms, indeed, sometimes exist together, and are dependant on one another; but what I defign to remark is, that in diforders of the eyes, there is a specific difference between them, to which we are carefully to attend, as to an important guide in our practice. And this will be very evident to the attentive practitioner, from the confideration of fedative applications fo frequently failing of fuccefs, in apparently irritable flates of this organ, whilft bracing applications will as often prove exceedingly prejudicial in cafes attended with great relaxation.* Hence it must happen, thefe complaints lapfing that

* It is very probable, it may be on this account, that the thebaic tincture has proved to beneficial in a great variety of cafes, related by Mr. Ware, wherein neither the wine alone, nor opium diffolved

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that either the particular affection has been miftaken, where only one of them has exifted, or it has not been rightly afcertained which has been the primary affection, and the proper caufe of the other.

Indeed, furgeons are well acquainted with the circumftance of relaxation, and have well known how liable the eyes are to be fo affected in confequence of almost every confiderable inflammation; and have therefore paid great regard to it in their treatment of common ophthalmias. On this account, they have carefully avoided urging any antiphlogiftic plan beyond a certain time, and particularly as to the use of very relaxing, and warmed applications; which often occafion irreparable mischief. I have however reason to believe, there is yet occasion for other cautions on this head, and room for improvement. A very different observation may therefore be made respecting bracing and invigorating applications, which notwithftanding the irritable difpofition of the organs of vision, and the pain that frequently attends fuch applications, are fometimes most useful when rendered fharper, and more irritating than those in general use-Dolor dolorem cedat, is a well known adage, and often as applicable to painful affections of the eyes, as to many other inftances of spafmodic affections; though the good effects of irritating applications may, perhaps, be otherwife accounted

diffolved in water have had a like good effect : a circumstance I am disposed to credit, though I never thought of making the experiment.

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for. But the frequent uncertainty of our remedies, for the want of making adequate diffinctions in regard to the length of time these complaints may have continued; their various causes; and the habit of body of the patient, has given rise to a hundred different remedies of the same class; has puzzled young practitioners; and has promoted the cause of empyricifun.

As the intention of fuch obfervations as can be contained in the limits I have affigned to myfelf, can only be general, I fhall haften to attempt fome improvement of the above remarks, and to point out fome practical directions for the treatment of these very common, and very diffreffing complaints.

AND first, in respect to the period of true inflammation, it may be remarked, that whilft the beft practitioners have been properly cautious of not continuing too long any antiphlogistic plan, they have, perhaps, fometimes not done enough in the period devoted to it. The fact is, that in very confiderable and recent inflammations, in athletic habits, the antiphlogiftic plan ought to be purfued boldly in the beginning, whereby the inflammation will be more certainly overcome, and with lefs rifk of bringing on hurtful relaxation, than by gentler means, and a feebler procefs, longer continued. To this end, both hands (if I may be allowed the expression) fhould be laid on the difease, and whatever may appear requifite for fubduing the inflammation, fhould be done at once. Hence, bleeding in all the different forms, blifters, catharties, and nitre, (which latter fhould

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fhould be exhibited with great freedom) fedative collyria, (and fometimes anodyne fomentations) become the proper remedies; as well as defending the eye from a ftrong light : and if the pain be very confiderable, an opiate fhould be taken at going to reft. Where the difcharge is acrid and abundant, a drop or two of fome foft mucilage inftilled between the lids, is very friendly to this delicate organ; and when the inflammation has begun to give way, two or three drops of laudanum applied in the fame manner, at going to bed, has fometimes removed the complaint before the next morning.

When fuch an antiphlogiftic plan has been properly purfued for two or three days, it becomes time to think of guarding against relaxation, and which a much longer continuance of fuch a plan would, in many inftances, infallibly produce. Tonical applications and internal remedies, and among the latter, efpecially the bark, are to be used, which if it be the proper time for them, will immediately produce a good effect; and if they do not, must not, for the prefent, be perfevered in. It is not, however, a diftention of the veffels of the tunica conjunctiva with red blood, that forbids a recourse to fuch means, or to the continuance of them; for this will happen. either from relaxation, or from an irritable flate of the part, as well as from true inflammation ; between each of which, it has been faid, the practitioner ought to make a careful diferimination, and to adapt his remedies accordingly.

Indeed, the treatment of very recent inflammations of

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of the eyes, is generally plain and obvious, and no one is at a lofs for fuitable remedies; but in habitual affections of these organs, where frequent returns have induced other fymptoms, and disposed the parts to peculiar relaxation, or irritability of its vessels and nerves, the greatest skill is required to distinguish them, in order to form a rational and successful method of cure.

This is a matter of the greateft importance, and it has been hinted, is not always fo eafily done; it is a knowledge to be acquired as much from experience and great attention, as from those just principles of art, acquired by a regular education. There is a fomething, however, in the appearance of the eyes, which is not eafily defcribed, that will affift us in making this diferimination; and which taken in connexion with the prefent occasion of the complaint, the frequency of its appearance, and the conflicution of the patient, will lead the attentive and experienced practitioner to difcover, whether fimple relaxation, the mere effect of the antiphlogistic plan, and habit of the patient, or whether the great irritability of the organ, and perhaps of the whole fystem, be the fymptom to be particularly attended to. For in cafes attended with great nervous irritability, or where the relaxation is immediately occafioned by it, befides a frequent, but variable relaxation of the iris, there is often to be perceived a fulnefs, and a fense of weight is felt, in the upper eye-lids, which are inclined alfo to drop, accompanied with a yellowifh tinge of the tunica conjunctiva, that feldom leaves

leaves the patient entirely, and is fuddenly recurring upon every little cold, or increased exertion of the organs of fight. Befides the indications to be obtained from an attention to the habit of body, the above fymptoms will not be ufually met with in cafes of fimple relaxation, where mere aftringent applications prove uleful, which in the former will always ferve to aggravate the complaint ; as will even dafhings with cold water, fo often very ferviceable in the other. Whether the complaint be owing to fimple relaxation, or to mere irritability of the parts, when this is once fully afcertained, good practitioners are at no loss for fuitable remedies, and as I would not appear to multiply them by needlefs prefcriptions, where practitioners are acquainted with varieties enough, I shall only fay, that if it be mere relaxation, the aftringent folution I have fo often recommended is among the beft in a fluid form, where a powerful bracing application is called for; and may be made of any firength, as occasion may require.

But there is in many people an irritability of habit, of which every complaint they are feized with, will very powerfully partake, and more efpecially complaints of the eyes; and when that organ has been often affected, the flighteft occafion will caufe a return of them. Here, the practitioner will be at no lofs for a proper diagnoftic, and I fhall therefore only obferve, that applications partaking both of a fedative and invigorating nature, fhould be immediately had recourfe to. A very powerful remedy very often in thefe thefe cafes, is an aromatic volatile vapor, * conveyed to the eye-lids, through a fmall inverted funnel, efpecially at going to bed; and from which I have feen aftonifhing effects, where the patient has been for years fubject to diffreffing complaints, and in danger of lofing the fight. Some benefit may likewife be obtained by daily touching the upper eyelids and parts about with the Spir. Volat. Aromat. Thefe little means have alfo been very ufeful where I have fufpected a difpofition to cataract and gutta ferena : \uparrow in which, as well as the above-mentioned cafes, the cautious and long continued ufe of electricity, it is now well known, has alfo been very frequently ferviceable. \ddagger

I may here add another observation, derived from repeated experience in what I would call a nervous ophthalmy, in regard to the use of collyria; which, though *a priori* we should presume ought ever to be

* Two drams of the Spir. volat. aromatic. in two ounces of water, kept boiling, will answer this purpose very well.

+ By the fame means, I likewife once removed a very painful pervous affection of the testes of long standing, which had rendered the parts fo exceedingly irritable, that it could fearely endure the lightest touch, and had rendered a married gentleman very miserable; having withstood many ordinary means of cure.

‡ For the first hints of the great advantages of a long continued course of electricity in the gutta ferena, and even a perfect cure in feveral recent cases, I was indebted to Mr. Hey, one of the surgeons of the Infirmary at Leeds; some of which cases have fince been published in the 5th vol. of the Medical Observat. and Inquiries.

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used cold, are nevertheleless oftentimes inftantly beneficial upon using them actually warm, especially in cold weather. Of the propriety of this change, the sensations of the patient upon the use of cold collyria will frequently be a guide to us; and I have only to remark, that they ought not to be used warm for any length of time, in which respect however, the intelligence of the patient may again ferve to direct us.

Amongst the means for removing great inflammation, was mentioned the defending the eye from a strong light, which is indeed indispensibly necessary. This should, however, be rarely extended to keeping the patient's room perfectly dark, or covering the eye itself in such a way as to exclude all contact of light;* as such covering, by heating the eye, will always

* I hope it may not be deemed altogether impertinent in this place, to offer a few obvious cautions, fcarce fufficiently attended to by those whose eyes are naturally weak, or flightly distempered. Such people ought to be peculiarly careful not only of not continuing any occafional exercise of the eyes after it becomes painful to them, but as much as poffible, to be always exposed to the fame degree or quantity of light. This attention is particularly neceffary when engaged in reading, writing, or other employment that is likely to fatigue them : too little, or too much light being equally improper when the eyes are much exercifed ; and is, indeed, at any time injurious. The fudden transition from a dark to a very luminous afpect, and efpecially if often repeated through the day, has nearly produced blindnefs in feveral infrances; and patients have been recovered from the danger by little more than attending to this circumflance. For the like realon,

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always add to the complaint. But in cafes of conflitutional ophthalmias, and particularly in fcrophulous habits, a perfectly erect posture, throughout the day, with the head raifed as much as may be, at night, is effentially neceffary, and eminently uleful; infomuch that frequently, no means of cure will fucceed unlefs this be very firicity attended to. In repeated inflammations, in patients of fuch a habit of body, I have known this alone efficacious, after many means had been prefcribed in vain by men of long experience, and where an obffinate inflammation had been kept up for feveral weeks, and the patient unable to endure the leaft glimmering of light, or to open the eye-lids without the most excruciating pain. And fuch ophthalmias, indeed, very frequently need nothing more than this caution, except it be to give a laxative occafionally, and to touch the eye-lids, now and then, with an ointment I shall prefently mention; and efpecially to admit light gradually into the room, as the patient shall be able bear it. In regard to medicine, nothing, I believe, does fo much good as the bark,

reafon, reading in the dusk of the evening, and then, fuddenly, by a ftrong candle light, may induce mifchief in weak and diftempered eyes, that may not be difcovered till too late to be remedied. I fhall clofe this note by obferving, that when reading a fmall print, without the help of glasses, becomes painful, fuch reading fhould be laid afide ; as glaffes, in this cafe, only firain the eyes, and fhould never be taken up till a uniform neceffity fhall oblige, and then fhould not afterwards be laid afide ; it being a shock to the optic nerves to have the like objects variously reprefented, perhaps a hundred times in a day. 19 653 A

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and fhould this not prevent frequent relapfes, the patient, it has been faid, fhould make trial of the fea; which is more frequently useful in fcrophulous ophthalmias than in any other inftance.

Something has already been faid in favour of invigorating applications, which for the chronical ophthalmia, and that tedious one which fometimes follows the meazles and fmall-pox, as well as in many fcrophulous cafes, ought to be made much more active than they usually are, and of which I have had many happy inftances. But, indeed, many inflammations of the eyes, that are apt to return frequently and upon flight occafions, are rather owing to an atony of the parts, than a true inflammatory caufe, and will therefore always be benefited by fuch applications. And thefe fhould be applied in an unctuous form rather than in a way of lotion, and will be found to be a very confiderable improvement. Hence it is, I apprehend, that Sir Hans Sloane's liniment formerly gained fo much reputation, and has fo often been of fervice; its only virtues, however, confifting in its form and the powder it contains, which affording a flight flimulus to the parts, is rendered more permanent in the form of a liniment, than any fluid collyria can afford. Ointments against inflammatory affections ought not usually, however, to contain fuch kind of powders, which often do harm, and can furnish no powers that cannot be otherwife obtained, and efpecially by fome preparation of mercury; which indeed will do more in many ophthalmias than any other kind of reme-M 2 dics.

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dies. The due irritation and difcharge fuch remedies occasion, the first two or three times they are made use of, throw the atonic parts into healthy action, and liberate the veffels; from which I have feen more good effected in one or two nights, than has been done in weeks and in months by facchur. faturni, white vitriol, and all the other ordinary ingredients of fluid collyria.

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Such may be made by the addition of the onguentum cærul. fortius to the ceratum album, or if a greater flimulus is required, by one or two drachms of the mercur. corrofiv. ruber, very finely levigated, to half an ounce of unguent. alb. and the like quantity of olive oil; or what is frequently more efficacious, a kind of unguentum citrinum, of different ftrengths, prepared with fresh butter, and to which camphire fhould be added. The infide of the eyelids only need to be touched with one of thefe, at going to bed, and though they will fometimes occafion very confiderable pain at the time of their application, and on first opening the eyes the next morning, they will render the parts very easy and pleafant through the reft of the day .- Indeed, had I nothing elfe to offer on difeafes of the eyes, than the careful diffinction between the true inflammatory, and chronic ophthalmy, (which is feldom fufficiently attended to) and the substitution of these liniments for fluid collyria, I conceive I fhould deferve well of the public. I am not ignorant, indeed, that fuch remedies are made conftant use of by fome gentlemen of the profession, who have been far from taking pains

pains to make their virtues generally known; which they certainly are not.—Nor fhould gentlemen of more liberal fentiments, at the head of the profeffion, conclude every publication needlefs that may contain nothing new to them; nor fuppofe, that becaufe they make no fecret of their knowledge, that the generality of practitioners are as wife as themfelves.*

A common impediment to the cure of ophthalmias, is a bad habit of body, which though an obftacle common to other complaints, is effectively troublefome in these. Amongst the various remedies in common use on these occasions, beside issues, the bark, and warm pediluvia, which are very frequently beneficial, I shall venture to suggest one, that may be given to advantage where no other remedy may be peculiarly indicated; this is, calomel joined with

* Since this paper was drawn up, I have feen Mr. Bell's obfervations on *ophtbalmia*, the early publication of which does him great credit; but as he fpeaks more from the practice of Mr. Pellier than his own, there feemed full to be fufficient inducement for adding my mite-of experience.—It was long after the above note was added to the manufcript, that I was informed Mr. Ware had written fo fully as he has done, on thefe complaints. And had I feen his ufeful publication before I had prepared the prefent tract, I fhould not have thought of writing on the fubject. I can, however, declare, that as I have made no addition nor alteration, whatever, (except the notes inferted at pages 18, and 33,) fince I heard any thing of Mr. Ware's treatife, fo did I not hope there may be hints in the prefent that will have their ufe, I fhould even now have fupprefied it.

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cicuta, a remedy not in very common use, but well adaped to many old and obstinate difeases of the eye.

NO common complaint is oftentimes more difficult of cure than affections of the eye-lids. These are sometimes attended with a distention and redness of the veffels of the eye, and sometimes not; but vision is always impaired. In some instances, likewise, the edges of the eye-lids discharge a very acrid matter, which excoriates the cheeks; and in others, the lids are red and ulcerated, but almost dry.

In these cases, it is well known, that a cautious use of the lunar caustic will fometimes effect an almost instantaneous cure; but I believe, it has not been often enough noticed, that a turning inwards of the eye-lashes is fometimes the fole cause of this very obffinate complaint: the remedy for which is fufficiently obvious. In other inftances of the lippitudo, the common mercurial ointment, or that with red precipitate, proves very ferviceable, but more especially, the unguentum citrinum, prepared as beforementioned, a remedy perhaps fcarely to be equalled for this, and many other finall ulcers. I have alfo feen great good effected, in a few days, by a very old remedy made use of frequently in St. Barthelomew's hospital, and for which I am obliged to Mr. Pott, and doubt not his permiffion for giving the prefcription; though my own experience, indeed, goes to a preference of the unguentum citrinum.

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R Lapis Tutiæ pp⁴.
Calamin. āā 3 iij.
Plumb. uft.
Gum. Camphor. āā 5 j.
Myrrhæ,
Sarcocoll.
Vitriol. alb. āā ß.
Butyri infulfi. 3 vj.
Accuraté mifceantur.

THERE is another and often fatal inflammation, efpecially to infants, of which there is not much notice taken by writers; nor has it, I believe, been accurately diffinguished till of later years: it is now usually termed ophthalmia purulenta, on account of the vast quantity of thick matter always difcharged.

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This may be effeemed a diforder both of the eyes and of the lids; but is in fact a fevere inflammation of the whole tunica conjunctiva, which goes rapidly into a flate of general fuppuration, and is fo much thickened where it is reflected over the lids, that it turns out a confiderable way the moment they are drawn afunder. Very frequently the inflammation is communicated to the cornea itfelf, which will fometimes burft, and the patient is confequently deprived of fight, at least for a time. Very foon after this, both the inflammation and discharge generally ceafe; and the aqueous humour being in fome cafes reflored, and retained by a fpeedy cicatrice , of the cornea, the patient recovers a very tolerable NO M 4 degree

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degree of fight. At other times, some internal part of the eye, and particularly the iris, is fo greatly injured, or the cornea is fo much impaired, that it remains collapsed, and all hope of future vision is cut off. In any cafe, the patient rarely recovers without the fight being more or lefs impaired for a time, by a greater or lefs number of fpecks formed on the cornea. Neverthelefs, we are frequently agreeably difappointed at the decline of this dreadful inflammation, and have the happiness of finding the eye much lefs injured than had been fufpected, either from the great difcharge and long continuance of the inflammation, or from the appearance of the eye itself when we were first able to get a fight of it. For I have fometimes known the whole cornea apparently much depreffed, and at others, fmailer indentations formed on different parts, and after all, the fight been perfectly good as foon as the inflammation had completely fubfided, without either cicatrice or fpecks to be feen on the cornea.

This being, perhaps, the most violent of all inflammations, requires the speediest affistance. The patient should be let blood freely and repeatedly, (according to the age and habit of body), especially in the neck, or by opening the temporal artery; the turgid vessels passing over the sclerotica should be frequently divided; leeches should be applied to the temples, and blisters to the neck, and behind the ears; the patient should be purged gently; and the thickened tunica conjunctiva should be deeply fcarisfied once or twice a day, as long as it falls out so low low as to prevent a clear fight of the eye. The part fhould at first be constantly wetted with cooling collyria, to which afterwards a little brandy and vitriol may be added, and a drop or two of laudanum be instilled into the eye, and every thing be attempted that may prevent or diminish suppuration; which I have known take place in a very few hours.

Should these means fail, or what very often happens, affistance be called in too late, the lids must be frequently drawn afunder to let out the matter, by night as well as by day; and in the cafe of infants, in whom the matter will be more confined, the edges of the eye-lids fhould be frequently greazed throughout the day, and at night be covered with a little of Goulard's Cerate, foread upon very thin linen, and over that a light compress, hanging loofely over the eyes, dipped in the vegito mineral-water and brandy, or fpread with a kind of liniment made by beating up alum in the white of an egg. Should the inflammation and discharge still increase, a drop of laudanum, or of a folution of the green vitriol calcined to whitenefs, should be instilled into the eye, at least once a day; which, whatever pain it may occafion at the time, will counteract the inflammation more than any of the topical applications at a certain period of the difeafe, unlefs it be fome one of the mercurial liniments before recommended.*

* In MR. WARE's Treatife on Ophthalmia, ftrong commendation is given to Bates's aqua vitriolica camphorata, diluted with about fixteen times its quantity of water, as a collyrium, to be made

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In fine, the grand remedies early in the difeafe feem to be blifters and topical bleedings, efpecially by leeches; but then it is not the application of one or two that will anfwer any good end, though often repeated; but if fix or eight to a child of four or five years of age, and a dozen to adults, be applied at once, efpecially at going to bed, a ftop will frequently be put to the moft formidable inflammation, and nothing farther be required than the ufe of fome aftringent collyrium, and to attend to the fpecks, fhould any be formed on the cornea. On the other hand, fhould the inflammation continue many days, aftringent applications muft be had recourfe to, and the cortex be adminifered in large dofes.

THERE is an ophthalmia flill lefs noticed by writers than the former, which occurs feldomer than any other; and is rarely cured if not attended to very foon. It might be called *ophthalmia interna*, being a fuffufion of blood within the coats of the eye, appearing through the pupil; while the conjunctiva oftentimes preferves for a while its natural colour,

made use of from the first appearance of this inflammation. I have had only three opportunities, indeed, of making trial of it fince that excellent tract was put into my hands, and in which it fucceeded very well. But apart from this little experience of its efficacy, MR. WARE's ideas of the complaint appear to perfectly to correspond with my own, that it would feem to me an injuffice to fuch readers as may not be acquainted with that work, not to mention, a remedy apparently fo well calculated to counteract inflammation, and recommended upon fuch authority and experience.

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though at others, I believe it has, from the first, the appearance of the common ophthalmia; this, however, ufually comes on in one stage or other of the difease.

It is fometimes a complaint of long flanding, flealing on for a while almost imperceptibly, till the patient is alarmed at being, fuddenly, almost deprived of fight; which fometimes as unexpectedly returns in a fhort time, and goes away again as fuddenly. It feems to be attended with fome diforder of the optic nerve, the pupil being fomewhat dilated, and the retina rather indisposed to contract, though the eye be exposed to a ftrong light.

It attacks people of different ages, and in young women is often attended with fuppreffion of the menfes, the return of which fometimes removes the complaint. I never met with it in robuft habits, nor have found general bleedings, or other antiphlogiftic remedies of any ufe. Topical bleeding by leeches, and in the jugular vein, are preferable; and electricity has fometimes been ferviceable, though it has in others appeared to increase the complaint, which feems to depend upon the irritability and relaxation of the organ. Bark, therefore, and a blifter on the head, touching the lids with ung. citrin. and dropping a little laudanum often into the eye, fcarifying the under-lids, and in the end, I think fea-bathing, are the most likely means of relief.

It will oftentimes be neceffary to continue thefe remedies for a great length of time, having feen good effects produced by them after I had nearly given up all

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all hope of doing any good. It always, I believe, attacks both eyes, and if attention be not paid to the complaint before the conjunctiva is much inflamed, the patient will after all most probably be in great measure deprived of fight, the cornea, in that cafe, becoming perfectly opake.

I SHALL only drop another hint or two, and fhall conclude all I mean at prefent to offer on diforders of the eyes. It may, perhaps, appear to be a bold one, and by many people be condemned, as likely to injure fo delicate an organ; but it is given from experience, which at first arose from accident, and in proper hands may be as fafely, as advantageously used. This respects the extractum faturni, which I have known made use of, undiluted, to advantage. I have, indeed, never made trial of it in this state, but have used it in the proportion of one drop to three or four of water, and have never seen it do harm; or the extract may be mixed up with olive oil into a liniment, which will give less pain, and will remain longer on the part.

It has already been faid, that the chronical ophthalmy often arifes from atony, and it as frequently depends upon a morbid, or undue action of the parts, which in numberlefs inftances is more certainly removed by active applications, than by any other means. I have long been fatisfied of the juftnefs of this idea, which I have fo much inculcated in the former parts of this tract, and am happy to find a gentleman of fo much reafoning and judgment as *Mt. Hunter*, fupporting it by fo many ftriking facts, in in his late treatife on the venereal difeafe. Indeed, we have often nothing elfe to do in various old ulcers, in certain habits of body, than to create a contrary and due ftimulus, in order to remove pain, tumour, or fpurious inflammation, and various other local indifpofitions, to which a morbid action of the parts has given rife.*

By this means it is, I doubt not, that the remedy laft recommended, as well as the mercurial ones, have been of fo much fervice in the most obstinate and long continued ophthalmias, after every usual remedy had been tried without any lasting good effect.

* It may be objected, perhaps, that a great deal has been faid in the courfe of this little volume in favour of active applications; but the writer hopes, without reafon for the leaft fuspicion of his fuppofing them capable of doing every thing, or that a trial, at leaft, ought to be made of them on almost every occasion. Nothing, indeed, is farther from his own ideas, who wifhes only to lead young practitioners to diffinguish cafes with judgment; and having done to, he doubts not they will find, that powerful external ftimuli will have their place, and perhaps more frequently than may have been fufpected, and upon the most rational principles. And as a general apology, he would here obferve, that he fat out with no peculiar theory of his own, but being gradually and naturally led to the various trials he has made, repeated facts have constrained him to purfue a practice which has been very fuccefsful, in his own hands and others; and he has the happinefs of finding it may be supported by found reasoning and argument. which it required but flender abilities indeed to difcover, or to arrange into as fpecious a theory as a practice founded upon facts can ever fland in need of.

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A very finall portion of the former may be applied, by a camel-hair pencil, when the patient is in bed, and after a few times ufing, be repeated in the morning, if the complaint be not greatly abated, nor the means difagree. The vaft difcharge produced in many chronical cafes by fuch ftimulant applications, and the action into which they throw the parts, are often the moft likely means of removing many obflinate complaints, not here particularly noticed, which have thickened the cornea, and not only greatly impaired the fight, but have obliged the patient to keep the eyes in a ftate of reft for many wecks, and even months at a time, and occafionally for feveral years.

I fhall juft obferve what every one knows, that fevere ophthalmias induce fmall fpecks, and fometimes very confiderable opacity of the cornea : it is, however, perhaps not very generally known, that fo fimple a remedy as two or three drops of the aq. fapphir. inftilled into the eye for a length of time, infallibly removes all that have not been of very long ftanding, without the painful and difagreeable affiftance of cauffics or other remedy.

I fhall now clofe the above obfervations with the following extraordinary cafe, which may ferve to fhew what nature is fometimes capable of doing for herfelf.

MRS. HOPPEY, aged about thirty years, the wife of a grocer formerly of *Great Ruffel-ftreet*, *Bloomfbury*, was attacked with the common fymptoms of ophthalmy, at a time I was making occafional vifits to one

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one of her children, and was therefore defired to look at her eye. The charge of the complaint was not, however, properly committed to me, but from time to time I gave fuch directions as appeared to me to be requifite ; which were not, indeed, fo perfectly complied with, as perhaps, they ought to have been. At one of these visits, thinking it neceffary Mrs. Hoppey fhould be blooded again, on account of the fevere pain fhe underwent, it was ftrongly objected to, and as I afterwards understood, on account of fome fcruples her apothecary entertained, who had formerly practifed as a furgeon in the country. On this account, the late SIR CÆSAR HAWKINS was confulted, who approving of the plan that had been purfued, and intimating the importance of great attention in order to her fafety, I afterwards vifited Mrs. Hoppey daily, and SIR CÆSAR HAWKINS was occafionally confulted.

Soon after this time, and on the abatement of the inflammation, fhe loft the fight of the eye, which likewife began to be enlarged, and pufhed forwards, the veffels of the lids, fides of the nofe, and forehead were fwelled, and were attended with confiderable pulfation. Thefe fymptoms increasing for feveral months, notwithstanding different means made use of, till the eye became greatly enlarged, and feemed nearly forced out of the orbit; it was therefore judged proper to extirpate it, in the apprehension of an aneurism within the orbit, which it was expected might fuddenly give way. About this time, Mr. Watfon was likewise confulted; the operation was deterdetermined upon, and the day for it was to be fixed as I should settle with SIR CÆSAR HAWKINS.

In this interval, I met with an accident by a fall, which confined me for three or four weeks to the house, and I requested SIR CÆSAR HAWKINS to perform the operation for me, if it fhould be thought that waiting for my getting abroad might be hazardous to the patient. After making Mrs. Hoppey a vifit with a view to fettling this matter, SIR CÆSAR HAWKINS called upon me, and propofed deferring the operation a few days; adding, that he conceived the eye had rather a better appearance, and though he, perhaps, rather boped, than was fatisfied of this particular, he thought it might be trufted for a few days, with the cautions and directions he had given the patient. In about a week after this he acquainted me, that he wifhed the operation might be postponed a while longer, as the tumour was certainly not increased, if it were not diminished, and of which I should be a better judge, as I had not feen it for fome time.

As foon as I could get abroad I waited upon Mrs. Hoppey, and was fatisfied the eye was not more enlarged, nor projected, than it had been, and I thought the pulfation was diminifhed; the pain likewife being lefs, and time having encouraged our patient as well as ourfelves, to hope there might be lefs danger of a fudden rupture than we had once apprehended, all thought of extirpation was foon afterwards laid afide, unlefs fome new fymptom fhould indicate its neceffity.

During this fuspence the pain became very inconfiderable,

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fiderable, and I faw my patient only once a week, and a while afterwards the pain leaving her intirely, I vifited her only once in a month, for above a year. At one of these vifits I was informed she was well, and though she knew not for certain when the change had first taken place, she had a few mornings before observed, whils share the state of the state of the state fected eye looked nearly as well as the other; and that upon closing the latter, she found her sight also was perfectly restored.

Upon this agreeable news I took a formal leave of her, only when I had occasion to visit any of the family, or was at leifure when I passed near her door, I inquired after her, and examined the eye; which for feveral years continued very well, having only a certain awkward look, and a kind of squinting that never totally left her.

Eleven years after her recovery fhe went to refide at *Manchefter*, and continued there in very good health; the eye formerly affected becoming, as fhe thought, ftronger than the other, but was fometimes a little painful in frofty weather.

Nine years after retiring into the country the fquinting was observed to increase, till the eye was turned quite to one fide; it was likewise pushed a little forward again, though the fight remained unimpaired. But some weeks after this, she was fuddenly attacked with excruciating pain, which obliged her to go to bed in the middle of the day, and fend to her apothecary; who applied a blifter to the nape of the neck. In a few hours after this attack,

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fhe loft the fight of the eye, which inftead of continuing to pufh forwards, was rather withdrawn within the orbit, and the upper eye-lid dropped; which fhe never afterwards raifed.

This violent pain continued for three days, which fhe compared to that fhe had fuffered in London, about the commencement of the complaint, and which fhe obferved, continued very fevere the fame length of time. At the decline of the pain, fhe became at times comatofe, and after lying in that flate for five days, fhe expired at the time, as I am informed, fhe was thought to be recovering. I am forry to add, that, though fhe had very confiderately given her confent to the head being opened after death, her hint was neglected; which had fhe died in London I fhould have been happy to have embraced, and thereby have afcertained exactly the nature of the complaint.



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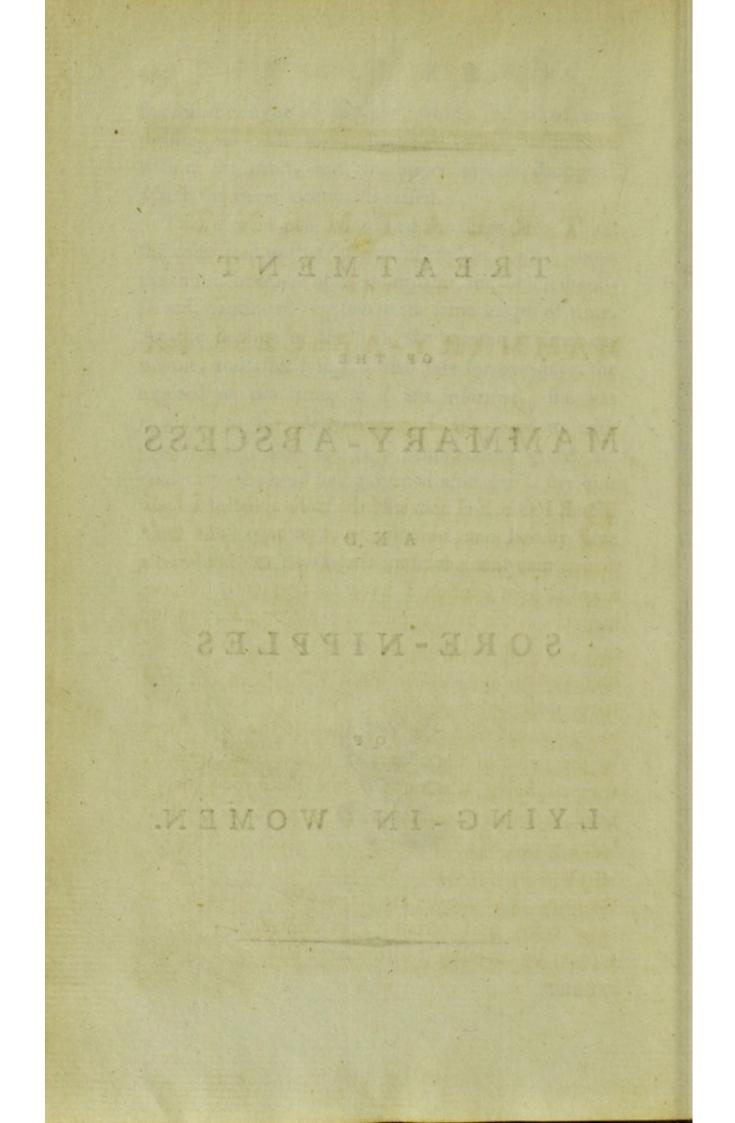
MAMMARY-ABSCESS

AND

SORE-NIPPLES

LYING-IN WOMEN.

OF



TREATMENT

OF THE

MAMMARY-ABSCESS, &c.

DEFORE I speak of the milk-absces, I shall) in this place obferve, what perhaps fome gentlemen may thank me for, that I can venture to fay, the aftringent folution I have fo frequently recommended, is the beft application hitherto known for that obstinate and painful fore on the nipples of fuckling women, for which almost every thing has been tried-and almost in vain. The nipples need only to be touched with it feveral times in the day, either by the point of the finger, or a camel-hair pencil; the part being afterwards covered with the patient's hand, or other contrivance, to prevent the folution being wiped off; the ftrength of which must be determined by the degree of tendernefs and extent of the fore. I think I have found fome advantage in these cases, and certainly, in drawing out a bad nipple, by covering it with a large nutmeg, hollowed

out,

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out, and the edges left flat. But whether the warm aromatic quality of the nut has contributed to this, or it has arisen merely from defending the tender nipple both from the linen, which becomes rough by the milk drying upon it, and from the common air, I am not at all anxious to determine. Such a contrivance is always at hand, and attended with no trouble though worn pretty conftantly, and I therefore often advise the use of it as foon as the nipples begin to get fore. This is likewife, doubtlefs, the best time to have recourse to the folution, which has hitherto answered exceedingly well, ever fince I have been acquainted with it. In fome very bad cafes, where the chaps are fo deep that the folution cannot be retained on the part, and are exquifitely tender, efpecially if of long flanding, it will be ufeful to cover the part with an ointment that is not relaxing, but moderately warm and drying, as the common white cerate may be rendered, by fimmering a little brandy in it. A cafe fometimes occurs, in which the nipple is not fo much chapped, as it is enlarged and inflamed, and attended with an oozing of fharp ferum. Here, after washing the part with the folution made very weak, fprinkling it with a little finely powdered gum tragacanth is of very fingular fervice. But in other instances, my chief dependence is upon the folution, which if properly attended to, will remove the complaint. It has also flood the test of the British Lying-in Hospital, where it has been for a long time made use of at my defire, and with the expected fuccefs; though there are always e TUCE in

MAMMARY-ABSCESS.

in the hofpital many women thus affected, and out of fuch numbers, it is probable, all the various kinds of fore nipples must have taken place.

It may reafonably be expected, that fomething should be faid of the fuccess of this remedy fince these observations first appeared; and the writer can with truth affure the public, that his own experience has not ferved to leffen the good opinion he entertained of it, though fome other practitioners feem to have made use of it with less success. It is to be lamented, that if men are generally found partial to their own discoveries, others are oftentimes proportionably prejudiced against them; fo that, if the fuccefs of any means should depend on a more than ordinary attention to its ftrength and mode of application, its credit is not likely to be increased in their hands. All that the writer need to fay of this remedy is, that his own patients have been greatly benefited by it, and have been glad to recommend it to others; and that if applied with care and due attention to its ftrength and effects, it will be found, at leaft, much oftner fuccessful than any means hitherto in general ufe .- The tongue will be the beft ordinary teft of its due ftrength, which must always be varied according to the degree of pain and other effects; always beginning with it fufficiently weak. On these accounts, it can be no wonder, if it should do lefs good when left in the hands of nurfes, or used merely at the difcretion of patients, some of whom do not make use of it frequently enough, N 4 whilit

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whilft others are inclined, as improperly, to keep it conftantly on the part. But in the hands of phyficians or furgeons, who know what effects it is defigned to produce, and will regulate it accordingly, it cannot fail to gain them credit, and give fatisfaction, provided they will for a few days attend to it themfelves, with a little of that pains men ufually beftow on inventions of their own.

One great advantage of the folution is, that it is perfectly harmlefs, and does not therefore require the caution of being wiped off from the part, when the child is laid to the breaft. Being alfo lightly aftringent and deterfive, without creating the pain, or that unpleafant and harfh drynefs, which other aftringents produce, renders it as promifing, as experience hath proved it to be fuccefsful in this obflinate complaint; which befides the great pain that attends it, has frequently fruftrated a moft laudable and pleafing impulfe of nature, by preventing the fond mother from fupplying the firft wants of the tender infant, to which fhe has given birth.

But the evil does not frequently ftop here; the pain and inflammation of the nipples often extend to the breaft itfelf, and fuppuration takes place.—I proceed therefore to make fome obfervations on this fubject, which though important, has not, that I know of, been yet publicly treated of.

It would be needlefs, in this place, to take up the reader's time, by adverting to the various other occafions which threaten fuch a complaint, fince, perhaps, the only one in the patient's power to prevent,

MAMMARY-ABSCESS.

vent, is that of taking cold; as frequent an occafion, indeed, as any, and against which every precaution ought to be taken. With a view to this, it may be observed, that the custom of bathing the breasts of women, who do not fuckle, frequently proves very injurious, though it has not, perhaps, been generally fuspected. The rubbing in a little oil and spirit, as foon as the patient is delivered, may be harmlefs enough; though if fomething must be done, in compliance with cuftom, the application of a diachylon plaister will answer every ordinary intention, without any of the difadvantages which attend the frequent repetition of ufelefs embrocations, which expose the part to taking cold. And as the above, and any other fuch lotions as nurfes ufually recommend, and place great confidence in, have no fuch power as is generally attributed to them, they are certainly much better let alone. And if it should be thought proper to have recourse to such as actually poffers any confiderably repelling property, they will, of courfe, be directed by the practitioner himfelf, who will give every neceffary caution ; as the confequences of cold taken in the application, are generally much more likely to give rife to fuppuration, than leaving the bufinefs to nature.*

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* It is perhaps worthy of remark on this occasion, that the mammary-abscess was for a number of years a very common complaint in the British Lying-in Hospital; and has always been attributed to cold, as the most general cause. The justness of this fuspicion

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THE first symptoms of such an unfavourable turn, are ufually a deep lancinating pain, hardnefs and tumor in fome part of the breaft, and a confiderable diminution of the cuftomary difcharge of milk by the nipple. This is the moment to prevent the apprehended mischief, as a very short delay renders the means ineffectual; the fkin foon becoming difcoloured, and the breaft greatly enlarged. To remedy this, immediate recourfe fhould be had to bleeding, and to laxative and anodyne medicines; but above all to fedative applications, which are usually found to be the most powerful discutients. Sometimes, however, folutions of crude fal ammoniac, with the addition of a good quantity of spirit, and if the inflammation be very recent, fome vinegar, will be more advifeable than faturnine remedies. Comprefies of coarfe linen-cloth, wetted in fuch a liquor made moderately warm, and renewed as often as they become dry, are abundantly preferable to heating and relaxing fomentations or poultices, to which furgeons have ufually had recourfe.

When the above means are made use of in proper

fufpicion has been confirmed fince water-clofets have been conftructed on every floor. Previous to this, feveral women, from motives of delicacy, were inclined to go, too early, acrofs a paved yard, though continually cautioned against it : But for full two years, fince that contrivance has been made, there have been only two inftances of the mammary abscefs.—Though this circumstance may, perhaps, be thought to prove too much, it nevertheless being a fact, ought to have its proper weight.

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MAMMARY-ABSCESS.

time, the inflammatory fymptoms will foon difappear, the pain be entirely removed, and if the milk runs freely again from the nipple, there will be no farther danger of suppuration. On the other hand, if there be not a very early and confiderable abatement of the first fymptoms, however flowly the process may go on, the breaft will feldom fail to fuppurate. In this flate, therefore, the plan ought very foon to be changed, in order to forward the work of maturation. And this, wherever the pulle will allow of bleeding, will often be haftened by taking away a fmall quantity of blood, once or twice, from the arm; though the patient fhould already have been let blood with a very different view. This will likewife be always a fafe practice in plethoric habits, or where the inflammation is attended with fever, and the event yet doubtful: fhould fuppuration finally take place, the bleeding will likewife tend to leffen the fize of the abfcefs.

The whole breaft fhould now be covered with a mild fuppurative poultice,* which must be continued till

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^{*} A very good poultice of this kind, is that formerly made ufe of by *Plunket*, and is preferable to the linfeed-cake. To half a pint of milk fhould be put about three table fpoonsful of finely powdered linfeed: after boiling a few minutes, add a fmall quantity of crumbs of bread, fufficient to bring it to the confiftence of a poultice, to which is to be added, on taking it off the fire, the yolk of one egg. This will make a very fmooth poultice, and much lighter than mere bread and milk; an advantage, in the cafe of much inflammation, efpecially in glandular parts, too obvious to be particularly infifted upon.

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the matter can be felt, and may then be changed for one of mere bread and milk; the part fhould alfo be fomented twice a day, if the abfcefs threatens to be large, and does not incline to ripen faft, after there are evident tokens of fuppuration. The circumftance of early maturation is of the greateft importance, for in proportion to the length of time taken up in that procefs, will be the fize of the abfcefs, and the time afterwards neceffary for its cure; at leaft, this is pretty uniformly the cafe.

Of no lefs importance is the manner of treating absceffes after the matter is well formed. And here I am confirained to oppose the antient and common method of furgeons, that of making a large opening with the knife; which can feldom, or never be neceffary. This happy idea originated from the late ingenious Dr. Hunter, (to whofe unremitted labors in the improvement of his profession, as well as in many other inftances, the public is fo eminently indebted ;) and I believe, that gentlemen in the department of of midwifery, at least in London, are well acquainted with the many advantages of fparing women this painful operation : but as it has not been noticed by furgical writers, nor, I think, fufficiently approved of by the generality of the profession, there are probably many practitioners who are not duly acquainted with it.

The impropriety of making large openings in the breaft, arifes, I apprehend, from its glandular ftructure, and peculiar ufe, together with the harmlefs nature of the complaint. But I fhall not enlarge here,

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here, on the many unfavorable circumftances attending fuch a practice, and the tediousness of the cure as the inevitable confequence. I mean only to hint at a method every way preferable to fo painful a procefs. But not only are the larger incifions highly improper, which are made with the knife, but fmaller openings with a lancet are generally better let alone; not only becaufe commonly needlefs, and very diffreffing to the patient, but the breaft will heal fooner when the abfcels is left to burft of itself. Hereby, we are fure the fuppuration will become as compleat as the cafe will admit of, and the little jagged round aperture nature makes for herfelf, will keep open much better than the fmooth puncture from a lancet. All that is commonly neceffary, is to cover the part with a foft bread and milk poultice; to keep it well fupported by an eafy bandage; and carefully to prefs out the matter, and renew the poultice twice or three times a day.

I cannot avoid taking notice in this place, that whilft in one *Review* this practice is faid to have been long underftood, and even publifhed to the world, (though I muft ftill confefs, that I never happened to meet with it,) a critique appeared in the *Englifh Review* of a very different caft. To the Editor of this (as well as those of the *Montbly* and *Critical Reviews*) I, indeed, feel myself much indebted for a very respectful and candid account of the former edition of this work. Objections, however, are made to leaving milky absceffes to burft of themfelves, felves, and perhaps fome of the first furgeons may be of the fame opinion; which renders this point very worthy of farther difcuffion. It fcarce need be obferved, that I had myfelf in the very next paragraph offered certain exceptions to this rule, which, however, as a general one, I am, from the best motives, inclined to defend.

I am aware, that the patient may fometimes undergo fome very confiderable pain for twelve or four and twenty hours, by the matter being left to make its own way through the fkin, and I have myfelf formerly made this circumftance an argument for opening fome fmall absceffes; but, from a fair comparifon of all the effects of each mode, am fatisfied to which the preference ought to be given. For, befides that the pain which leaving an abfeels to burft of itself, may without any difadvantage be much abated, or intirely removed by a dole or two of laudanum, I have on the other hand, after having opened these absceffes in order to obviate that pain, received no thanks from my patients; who partly from the dread fome people have of any cutting inftrument, and partly from the actual pain of the little operation, and its confequences for fome hours afterwards, have on a fubsequent occasion determined to leave the bufinefs to nature, and to endure with patience the effects of her operations, or at most, to ftun the pain by an opiate taken at bed-time. But it has been fuggested, that there are other, and more material advantages refulting from a well-timed opening made by the lancet, and that for the want of

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of it, the little orifice will often be clofed up, and a fresh abscess be formed. In answer to this, I must fay, that I am conftrained to doubt the justness of this observation. I was myself bred up to be of this opinion, and was with difficulty led to change it; but a long and pretty extensive practice, and much observation have, as I think, led me to form a more just opinion of the matter. The fact, indeed, is, that the little apertures may be very eafily and certainly kept open, as long as there remains any thing to be difcharged from parts with which they communicate, and that fresh imposhumations will not be formed, but in cafes where other parts of the breaft are in an obstructed and distempered state, and not yet inclined to fuppuration ; in which cafe, let the first abscess be opened, and treated in whatever manner it may, new imposthumations will be formed, and, indeed, in this cafe, are to be defired. Whereas, when other difeafed parts have communicated with the first abscess, I have without difficulty kept an orifice (not larger than a pin's head) for many weeks open, till the various indurated parts having suppurated, the matter has found its way to the first and only orifice, which has discharged very confiderably, and for a long time together, without any interruption ; and when the breaft has got well, only the fmalleft fcar imaginable has remained. And it might be here noticed again, that the little jagged aperture which nature has made for herfelf, keeps open much better than one from the lancet, though made four or five times as large : every furgeon knowing

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knowing how foon incifed wounds are difpofed to heal up at the angles, efpecially if extended into the found fkin, leaving only a kind of fiftulous orifice in the centre. So that upon the whole, after having beflowed much attention on this fubject, it is ftill my unprejudiced opinion, that it is in general beft to leave the bufinefs to nature; and that if there may be any merit in being the first publisher of fuch an opinion, it properly belongs to this little work.

The above method of discharging the matter, it was faid, is ufually the beft; there are however inflances, where I have thought finall punctures made with the point of a lancet have their ufe. Such are cafes, wherein the whole breaft is very hard, and the habit not disposed to form matter fo plentifully, as the indurated state of the part feems to require. Here a great number of very fmall imposhumations are formed, come very flowly to a head, often thicken and harden the fkin, are but little difpofed to break, and ceafe to difcharge as foon as they have vent. The little tumors will even fometimes fubfide, if an opening is not made foon after the matter can be felt; and the induration remains a long time nearly the fame. Poultices of more potential heat than those of mere bread and milk, are here particularly ferviceable, as well as light frictions with a weak volatile liniment, and fometimes a cautious ufe of the unguent. cæruleum; which should not be forcibly rubbed in, but spread lightly over the breaft. At this period, the exhibition of the bark is found uleful in fome conflitutions; in others, fmall dofes of corrofive

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rofive fublimate; and I have fometimes found the decoction of farfaparilla, and powder of millipedes, or fweating with puly. Doveri of very confiderable fervice; as well as purging now and then with rhubarb and calomel.

The worst cases I have met with, have arisen from cold taken after the end of the month, and are, perhaps, more common in women who have not fuckled their children, nor been properly attentive to the turn of the milk. Here, one or more very large ·lumps are often pretty fuddenly formed, or fometimes fmaller ones almost infensibly run together, and occupy a great part of the breaft; are always exceedingly hard, but are not usually painful at first. The appearance, in fome inftances, is very alarming, but they all neverthelefs end perfectly well if prudently managed. I have been called to cafes of feveral months standing, where the breast had entirely lost its natural appearance, had become hard in every part, flattened, and the nipple been almost obliterated. When the difease extends to fuch a degree, fuppuration must take place, and, indeed, is a defirable event, as otherwife mischief would enfue; for I believe, an entire refolution of the tumor is not to be effected. Hence, faturnine applications, which have been much too indifcriminately made use of, are here highly improper. I have feen nothing fo ufeful as mild poultices, and a cautious ufe of the unguent. cærul. fortius, from half a fcruple to half a drachm, repeated pro ratione effectus, and now and then taking away a fmall quantity of blood; while

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while the body has been kept open by the fal rupellens. polychreft. or other cooling laxative.

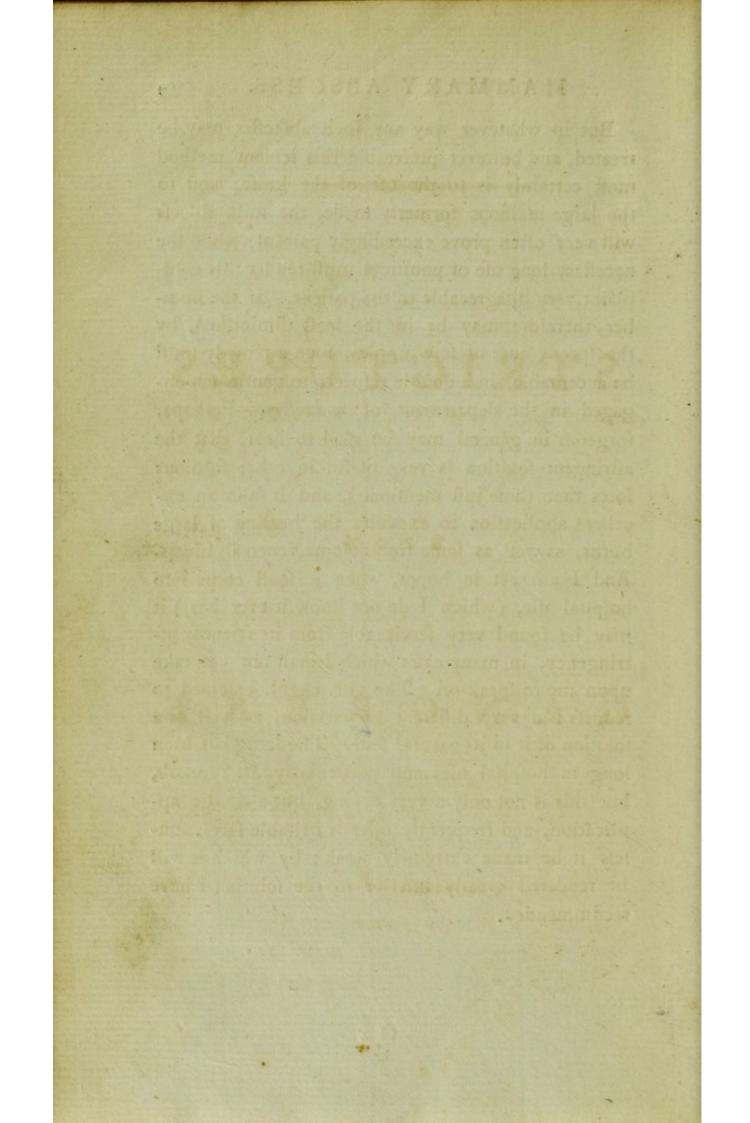
By thefe means, I have fucceeded in cafes to appearance exceedingly unfavorable, and not at firft to be diffinguifhed from incurable fchirrhi; which have neverthelefs got well in a very reafonable time, and the patients have afterwards fuckled children without the leaft inconvenience. In fuch cafes, more efpecially, the abfcefs when formed fhould always be left to burft of itfelf, the ufe of the knife having a direct tendency to increafe the induration of the parts, as well as to injure the ftructure of the breaft; and at the beft, it has been faid, is perfectly unneceffary.

Sometimes, where the fuppuration has gone on very flowly, an oozing of ichor or fanies will remain, and often a difcharge of milk from the fore, long after the tumor and hardnefs are removed. And I have been applied to, where a fmall fiftulous fore has remained for fome months, which I have fafely dried up in as few days, by dreffing it with aq. vegitab. mineral. made very ftrong: but if the finus runs deep, the aftringent folution before-mentioned, ufed by way of an injection, may be preferable.

The above hints are thrown together, as the refult of long experience both in the British Lying-in Hospital, and in private practice; not, indeed, as a treatife upon absceffes of the breast, but as the out-lines of a pleasant and safe practice, which every man of experience will know how to apply, and the young practitioner may possibly profit from.

But

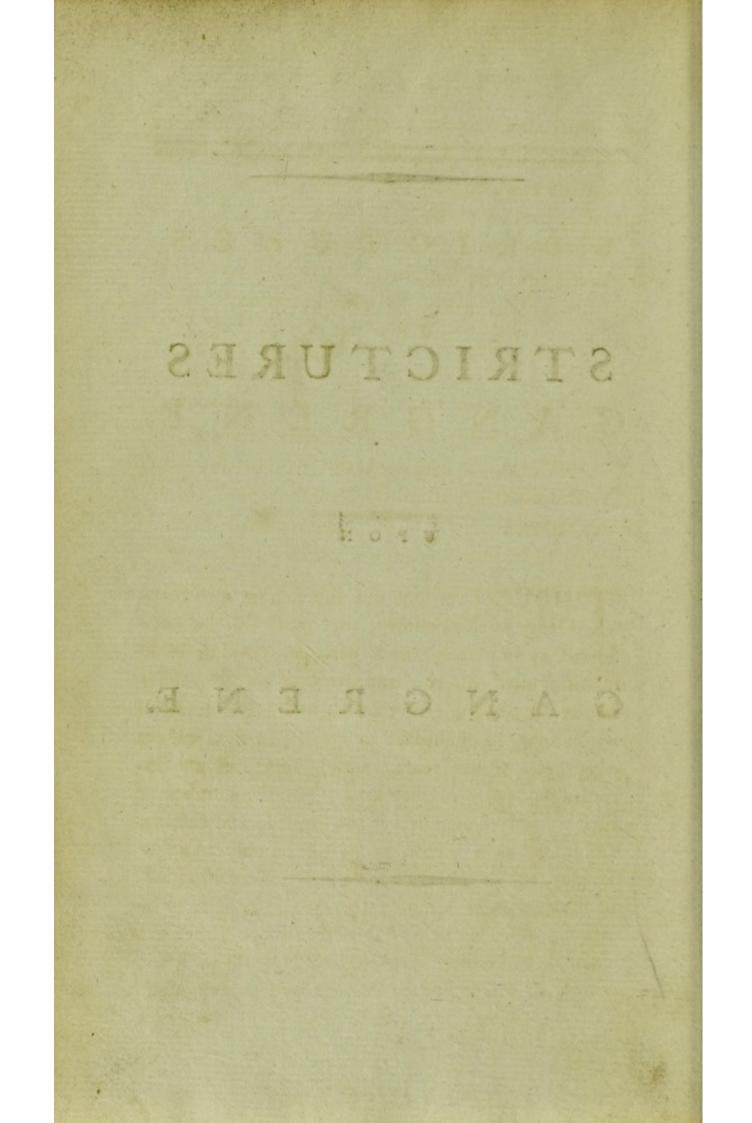
But in whatever way any fuch abfceffes may be treated, and however preferable this lenient method most certainly is to the use of the knife, and to the large incifions formerly made, the milk-abfcefs will very often prove exceedingly painful, while the neceffary long use of poultices must render this complaint very difagreeable to the patient. If the number therefore may be in the leaft diminished, by the fpeedy cure of fore nipples, fuch a remedy muft be acceptable, in a double refpect, to gentlemen engaged in the department of midwifery .- Perhaps, furgeons in general may be glad to hear, that the aftringent folution is very ufeful in other fiftulous fores than those just mentioned, and is also an excellent application to expedite the healing of large burns, as well as fome troublefome venereal ulcers. And I am yet in hopes, when it shall come into hofpital use, (which I do not know it ever has,) it may be found very ferviceable from its friendly aftringency, in many cafes which I fhall not yet take upon me to speak of. The vitr. cærul. calcined to redness is a very different preparation, as well as a folution of it in its natural state. The latter has been long in hospital use, and particularly St. Thomas's, but this is not only a very drying, but a cauftic application, and frequently offends irritable fores, unlefs it be made extremely weak; by which it will be rendered greatly inferior to the folution I have recommended.



STRICTURES

VPON

GANGRENE.



STRICTURES

UPON

GANGRENE.

PHOUGH various are the fources of knowledge in this country, they must still be confidered as imperfect; and, perhaps, nothing is fo much wanted for the improvement of the bealing art, as a public inflitution fimilar to the Académie Royal de Chirurgie, as established in Paris. In London there have been of late years, indeed, fome private Societies fomewhat of that kind ; but the number of their respective members is too limited, and familiar admiffion, as a vifitor, is permitted only to a few. Befides, the members of these focieties confist chiefly of fludents, who attend rather to learn than to inftruct; whence fuch eftablishments are rather calculated to communicate a little fuperficial knowledge, in a fhort time, than to perfect any of the 04 members

members; many of whom continue only a year or two in London. The Inflitution, in fome refpects, more refembling that of Paris, is with the College of Phylicians, whofe Fellows, at flated times, read papers, drawn up by themfelves and others, on medical fubjects. But though their judgment and impartiality will not be fufpected, and their felection of papers may give more fatisfaction, than any private editors; yet this inflitution likewife falls fhort of the prefent intention: for befides that their plan is too limited, their readings and obfervations are not open to the profeffion in general, and efpecially to the younger part of it, who have every thing to learn.

For the want of fuch an Inflitution, young men, efpecially fuch as are to practife in the metropolis, are confirained to read a great deal, and often at a venture; or if they do not, they will lofe many a ufeful hint that is to be picked up in various works where but little might be expected. On the other hand, many a point of ufeful knowledge is loft, or confined to a very small circle, not fo much for its want of importance, as from its being oftentimes a fingle obfervation, which for want of an eafy mode of communication, can circulate only in a way of converfation; whereby the young artift, conceiving himfelf unlikely to receive the credit of the observation, very frequently confines it to himfelf. But Societies with the first Physicians and Surgeons at their head, and open, under proper regulations, to all the fludents in medicine, where public fpeaking, and reading of fhort papers were encouraged, the fubjects properly

properly difcuffed, and the refult of experience and inquiry duly publifhed, would quickly fpread ufeful knowledge through the kingdom, refcue many a good practical hint from oblivion, and prevent a great number of larger works on the fame fubject, (each of which inquifitive men are obliged to wade through;) and would nearly, if not entirely fupprefs many triffing publications.

I have been led into these reflections from confidering different parts of the present little work, and especially the subject immediately in hand; on which I defign to fay fo very little, that it might well have been suppressed, but from the persuasion it will contain fome hints not sufficiently known, especially by students, and for which the young reader of the former parts of the work may possibly find occafion, before the hints might otherwise fall in his way.

It was on this account, that the former edition of my Treatife upon Ulcers of the Legs was not publifhed by itfelf; to which alone, however, I had firft turned my thoughts. Perfuaded, neverthelefs, as I was, that the treatment of fome fcrophulous tumors might be improved upon, and that the moft eafy and fafe method of managing the milky abfcefs, as well as other matters there treated, were, by no means, generally known; the work was fuffered to put on that mifcellaneous appearance, and for the like reafons has received the additions now fubmitted to the Public; aware of the cenfures to which it may be on this, as well as other accounts, expoled, I am, neverthelefs verthelefs, ambitious to add my fmall mite to a treafury of knowledge fo ufeful to the world as the *Healing-art*, however the execution may be criticized, or the author misjudged. With the candid, however, it is hoped, the apology may be accepted, (though immethodically introduced in this place) as well for the work at large, as for the prefent digreffion, by way of introduction to the very few hints to be offered on the fubject of Gangrene.

GANGRENES may be diffinguished into four kinds; fuch as arise from irritation, attended with more or lefs of local inflammation; from an inflammatory diathefis of the fystem; from general debility; and from dyscracy. To each of these sexternal injuries may give rise, or become the remote cause.

From this variety, though not always clearly underftood, have arifen the different means of cure extolled in different ages and countries, and by different practitioners in the fame age and fituation.

The moft dangerous and frequently fatal gangrene, is that which attends, and is fupported by a bad habit of body; in which opiates, cordials, tonics external and internal, have been found equally inefficacious; a permanent caufe of morbid irritation or atony prevailing, which is fometimes out of the reach of art, efpecially in aged fubjects, and in infants.

More however may be effected even here, or at leaft, in fpreading fphaceli fufpected to depend upon a certain habit, as well as in gangrenes from other caufes,

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by mere external applications, than may have ufually been imagined, and has been one inducement to me to intrude these hints on the Public.

It is not my intention to enlarge on this diforder in general, or to review all that has at different times been advanced; this difeafe having been largely difcuffed, and various fuccefsful modes of treatment been recommended. It is certain, however, that neither cordials, volatile falts, opiates, nor even the bark, are efficacious alike, or by any means proper, in every fpecies of gangrene; though the latter, fince the time of *Douglas*, has been fo much depended upon, that even *Mr*. *Pott*, when he firft recommended the ufe of opium in gangrenes of the toes, for which the public is fo much indebted to him, feems cautious of being fupected of fpeaking difrefpectfully of a medicine, which in every other fpecies of gangrene, he himfelf appears to effeem almoft a fpecific.

Every art is confeffedly imperfect, but there would certainly be lefs of imperfection in the practice of phyfic, were fludents better directed in their firft refearches; which muft, however, greatly depend upon their teachers, who ought to lead them between the extremes of implicit confidence, and what may be called fcientific fcepticifm. There is a degree of empyricifm pervading every branch of medicine, and too many aware of this, are found running into the maze of theory, and therefore give credit to nothing that they cannot explain, though their arguments are frequently convincing to none but themfelves.

Every

Every practitioner, however, fhould have fome direct view in every thing he prefcribes, and ought to know what he is to expect from every medicine or topical application, however at a loss about its precife mode of operation. For the want of this, means of cure for various difeafes have been handed down to us, which numbers implicitly adopt without any diferimination of causes; and therefore fail of effecting a cure, whilft they are employing excellent remedies for one fpecies of a difease that has various modifications. Hence it is, that the bark and cordials have been fo univerfally extolled for their wonderful fuccefs in gangrenes, for different species of which they are almost specifics, whilst they as constantly fail in others, to the furprize only of those, who are prefcribing to the name of a difeafe, without attending to concomitant fymptoms, and different conflitutions.

The bark failing in fo many inftances, opium, it has been faid, has of late years become a fashionable medicine in gangrenes, especially of the extremities; and though it has been serviceable in other cases than those for which it was so happily advised by Mr. Pott, has also been productive of mischief when preferibed without that due discrimination, (more attended to, perhaps, by Mr. Hunter, than any other writer on this subject, that I know of,) which I shall now in a few instances endeavour to point out to younger practitioners.*

Gangrenes

* As it is a long time fince these observations were drawn up, (which have been delayed for want of time to review the tract upon

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Gangrenes are frequently attended with much true inflammation, and fometimes are preceded and caufed by it; and in this cafe, however rapid the progrefs of the gangrene may be, both the bark and other tonics, with every kind of cordial, ought entirely to be refrained from; and bleeding, laxatives, and cooling medicines be exhibited in their flead, with emollient fomentations and cataplasms, (not applied too hot) to abate the fenfibility of the part, and promote fuppuration. After these evacuations, an opiate fhould generally be administered at night, (and is proper in every gangrene where the pain is confiderable); and thefe means fhould be continued as long (though rarely many days) as the inflammatory diathefis fhall evidently prevail. For fo long as this shall continue, the blood remain fizy, and perhaps the bowels coffive, loading them with bark, which the ftomach cannot digeft, is only adding fuel to fire, by augmenting the load, or increasing the action of the fystem, and rendering the partially obstructed veffels totally impervious.

But there is often local inflammation and great

upon ulcers) I had not then feen the last edition of Mr. Bell's Surgery, in which are many valuable practical obfervations, and excellent distinctions of gangrenes. Had he more completely accomplished this defign, and he himself had experience of the great advantages arising from a due recourse to opium, in very many cases, I had thought the expediency of these hints entirely superseded. But Mr. Bell does no more than barely mention that remedy, in a note, as having been recommended upon the authority of Mr. Pott.

pain,

pain, attended with a quick and even tenfe pulfe, that depends more upon spasm, than a true inflammatory cause, especially in old people. Here, much caution and general knowledge is required ; but ufually opium is the beft remedy, and may be fafely administered every four or fix hours, as the pain may require, after two or three stools have been procured by a gentle laxative or a glyfter. Should opium be the proper remedy, it will almost immediately prove useful; after which, the bark and wine, or other cordial should be directed; but more especially the bark, as in old people the fystem is debilitated. For bark is evidently a tonic, and as fuch has a tendency to ftrengthen the general fystem; whereas cordials are only temporary ftimuli, and where the habit continues debilitated, only act as an increase of power in mechanics, and ferve to haften the deftruction of the machine.

But fhould this, or any other plan fail of producing fome amendment, it ought not to be long perfevered in, as it is poffible we may have miftaken both the caufe of the difeafe and the conflitution of the patient; for if our remedies be properly adapted, however rapid the progrefs of the gangrene may have been, it will ufually be very foon checked. Whereas, when a gangrene has continued to fpread for days, and even weeks, under the fame treatment, (as I have feen under eminent practitioners in regard to the bark;) if it has at length flopped, and the patient recovered, the recovery may fafely be attributed to the ftrength of the conflitution, of which the inflammatory

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matory difposition has been brought down by the length of the difease, rather than to the propriety of the means that have been made use of.

On the other hand, I have feen a rapidly fpreading gangrene, even in advanced years, where bark has been administered freely without any good effect, immediately checked, upon taking away twelve or fourteen ounces of highly inflamed and fizy blood, unloading the bowels, and instead of cordials and wine, refreshing the heated patient with faline draughts, and afterwards quieting with opium. So also in the spurious inflammation dependent on irritation, I have known opium keep off a disposition to gangrene in the toes, even for years, where the discolouration and pain have constantly returned foon after the opium has been laid afide ; although the patient has died at last of a gangrene of the extremities, at an advanced age of life.

By whatever means, however, the gangrene may be flopped, there are but few cafes, I believe, where the bark, cordial medicines and wine, will not be found proper at fome period of the difeafe. Should the gangrene take place from atony, general or local, the one or all of thefe will be proper from the beginning, and the patient muft be fupported by a generous diet throughout the cure. Should they fail in cafes evidently of this clafs, the vitriol. cærul. fhould be given inftead of the bark, beginning with very fmall dofes, fuch as an eighth of a grain, or lefs, four or fix times a day, diffolved in a fpoonful of fpirituous cinnamon water : a medicine excellently adapted to gangrenes gangrenes attending that atony of habit induced by an impaired digeftion from hard drinking; and as far as my experience has gone, is more efficacious than the bark, whenever the flomach will bear it. I once faw a remarkable inftance of this in a large fpreading fphacelus, which was immediately checked by it, after the largeft dofes of the bark had failed; and repeated re-appearances of the gangrene upon returning to the bark, as often flopped by returning to the vitriol.

To conclude this head, let the general habit of the patient, and the flate of the part difeafed be properly afcertained; let us ceafe prefcribing to the Name of a difeafe, and caft off the fhackles of prejudice; let us only make ufe of our underflanding, and give attention to the fymptoms peculiar to the feveral cafes we are treating; and we fhall find many gangrenes of the moft unpromifing appearances, and in a very fpreading and fphacelated flate, frequently checked by very fimple and obvious means, and foon converted into well-conditioned ulcers, difpofed to heal up in a reafonable time.

The habit is either in a ftate of inflammation, and the patient more or lefs athletic, and then there will always be much true local inflammation; or the habit is atonic, with more or lefs of fpurious inflammation of the parts, the conftant concomitant of a debilitated fyftem. To check the inflammation in the one cafe, and to fupport the vis vitæ and allay the local morbid action in the other, as well by external as internal means, is equally agreeable

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to found theory, as it is fupported by fuccefs and experience.

Before I quit the fubject of internal remedies, I cannot avoid taking notice of an inflammation too frequently terminating in dangerous fuppuration, or gangrene, that has not, I believe, had that attention paid to it which it deferves; I mean, the cafe of puncture by an invenomed inftrument. This misfortune ufually falls to the lot of medical people, when employed in opening dead bodies, and on other occafions fomewhat fimilar; and has too often proved fatal. Such accidents appear to me to be frequently very ill treated from the beginning, by purging, bleeding, and other antiphlogistic remedies, to the exclusion of the only proper, and very opposite means, that of invigorating the fystem. I have known feveral fuch cafes treated in the first-mentioned way, and all of them followed by great local mifchiefs, and fome have even ended fatally. Whereas, in others, where there have been evident marks of infection, and abforption of the poifon, along the courfe of the lymphatic, the evil has been ftopped, and the perfon been perfectly well the next day, by the oppofite treatment. The best remedy of this kind, I believe, is wine, which should be partaken of freely, according to the conflitution and habits of the patient, and if had recourse to on the day of the accident, or any time before rigor, lownefs, thirft, or other fymptom of affection of the fystem have taken place, will generally prevent farther infection, by flirring up the vires medicatrices naturæ to expel the poifon. This

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may be farther promoted by proper dofes of the bark, taken on the next day. The punctured part fhould also be touched with the lunar caustic, or if the injury be confiderable, with the caustic alkali, which will penetrate deeper.

HAVING given these brief hints, I shall now close with some fimilar reflections on topical applications.

When the probable caufe of the gangrene has been difcovered, together with the general habit, and prefent circumstances of the patient, the furgeon will be at no lofs how to adapt his applications and dreffings; and this fhould be invariably done. To ftimulate and irritate an inflamed part, already too much in action, by balfams and spirits, when the general habit needs to be cooled and unloaded, were as contrary to good principles, as it must be unfuccefsful in practice. Here, emollient and relaxing fomentations, poultices, and ointments, are the most likely to abate the inflammation, to liberate the veffels of the part, and affift nature to feparate the efchar. On the other hand, poultices of stale beer and oatmeal, fo frequently and indifcriminately applied to fphacelated parts, are not only always improper where there is much true inflammation, but even in the atonic state, often do harm from their weight : in the former cafe, a poultice of fine linfeed-meal with a little ointment of Elder-flowers, will be found preferable; for the latter, a foft bread and milk poultice with a good deal of theriaca. For gangrenes in old people, and often for those of infants, especially if the gangrene is fmall, the theriaca alone is a very

a very convenient application. It is light, potentially warm, and yet fomewhat fedative; it does not very foon get dry, and is more conveniently renewed than poultices and fomentations; and is feldom improper in fuch fubjects, unlefs the local action be confiderably greater than the powers of the fyftem. But even then, the attempt may often be made with fuccefs, as a contrary ftimulus will fometimes change the undue and morbid action of the parts, and occafion a favorable turn to the difeafe.

But the parts contiguous to the feat of gangrene, are almost always very painful, as long as the fphacelus continues to fpread, and are in this painful ftate often improperly irritated by heating applications. The propriety of topicals should ever be determined by their effects, and are generally hurtful, in these cases, if they occasion much pain; and should this effect of stimulating applications, or even of fomentations and warmed poultices, continue for fome hours after the gangrene has been dreffed, they should be changed for those of a different quality, unless there be an evident atony of the parts. There may be, it has been faid, a flate of general debility, though from irritation there may be too great local action, which if not foon removed by a contrary ftimulus from active applications, the continuing of them will increase the complaint. Here, sedatives, and fometimes poultices of bark, applied cold, may be made use of for a while, and will often do wonders, by allaying the morbid action of the parts, P 2 and

and mitigating the pain; after which, tonics external and internal, fhould be employed.

By this means it is, I apprehend, that the fermenting poultice * has been found of late years fo very ferviceable, and is a grand acquifition in furgery; but is too little known, by appearing only in a work not generally read by young furgeons. Its effects have been aftonishing, and perhaps are affisted by wrapping up the parts above the gangrene in compreffes wrung out of fpirits, and renewed as they become dry. It may not operate, however, altogether in the way Mr. Power has conceived, nor yet by creating heat, as others have fuppofed, but as much from its being a fedative, and applied in a cold state, as from any specific quality of its contents; and therefore derives not its chief virtues from its abforbing, or correcting the acrimonious. juices contained in sphacelated parts, if it should be allowed to have any tendency that way. However this may be, I believe it has effected cures, where feemingly from a bad habit of body, gangrenes have been in a fpreading flate for a long time together.

In regard to fcarifications, I believe it may be faid, that if we only cut through the efchar, and do not penetrate the found parts, they will fometimes

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^{*} This may be made of flour, honey, and water, mixed up with yeast, and spread into a thin passe, and set near the fire till it shall begin to ferment; and in that state should be laid on the part, once or twice a day, if the pain be very great. See Appendix to Medical Transactions of the College of Physicians. Vol. ii.

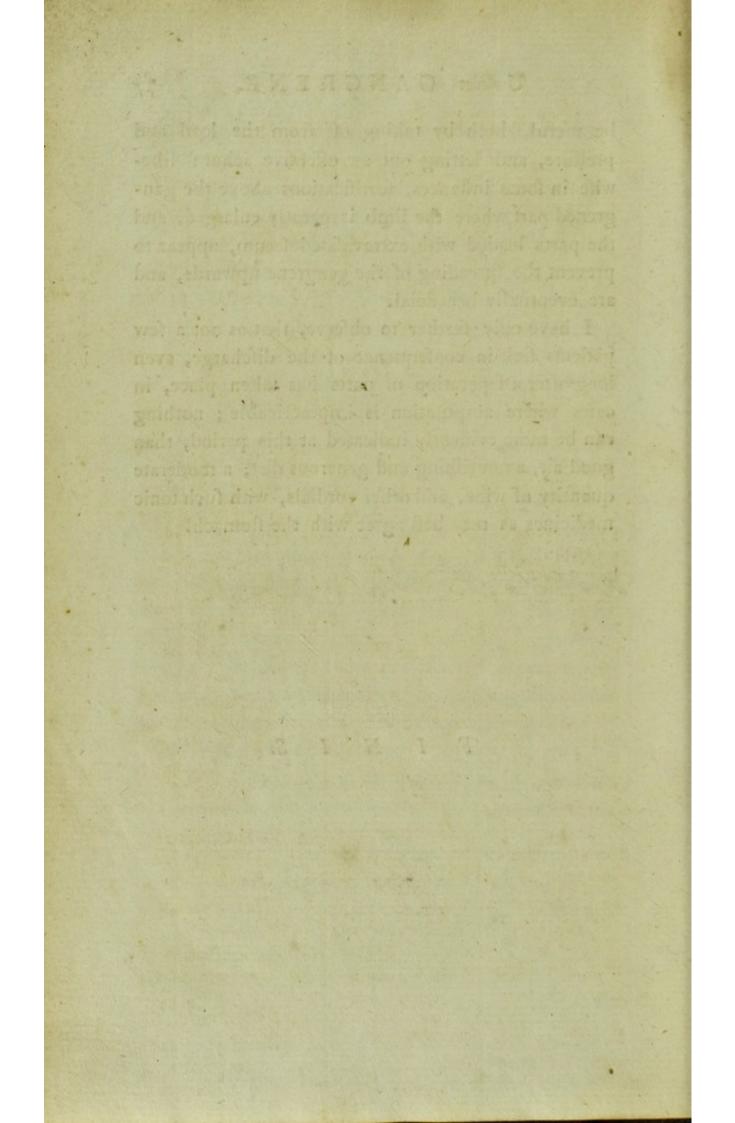
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be useful, both by taking off from the load and preflure, and letting out an offenfive ichor: likewife in fome inftances, fcarifications above the gangrened part where the limb is greatly enlarged, and the parts loaded with extravafated ferum, appear to prevent the fpreading of the gangrene upwards, and are eventually beneficial.

I have only farther to obferve, that as not a few patients fink in confequence of the difcharge, even long after a feparation of parts has taken place, in cafes where amputation is impracticable; nothing can be more evidently indicated at this period, than good air, a nourifhing and generous diet, a moderate quantity of wine, and other cordials, with fuch tonic medicines as may beft agree with the ftomach.

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