Surgical tracts, containing a treatise upon 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 some scrophulous tumours; the mammary abscess, and sore nipples of lying-in women; observations on the more common disorders of the eye, and on gangrene / by Michael Underwood, M.D.

Contributors

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SURGICAL INACTS, CONTAINING A T R E A THES FCAL UPON 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 SCROPHULOUS TUMOURS; THE MAMMARY ABSCESS, AND SORE NIPPLES OF LYING-IN WOMEN; OBSERVATIONS on THE More Common DISORDERS of the EYE,

AND ON GANGRENE.

THE THIRD EDITION, REVISED AND DEFENDED.

By MICHAEL UNDERWOOD, M. D. Physician to Her Royal Highness the Princess of Wales.

ÆQUE PAUPERIBUS PRODEST, LOCUPLETIBUS ÆQUE. Hor. Lib. i. Ep. 1.

London:

PRINTED FOR J. MATHEWS, Nº. 18, STRAND. M.DCC.XCIX.



TO HIS ROYAL HIGHNESS

George

PRINCE OF WALES,

THE FOLLOWING TRACTS

IN A FORMER LINE OF THE AUTHOR'S

PROFESSION,

ARE INSCRIBED, BY PERMISSION, WITH ALL HUMILITY AND GRATITUDE,

BY HIS ROYAL HIGHNESS's

MOST DUTIFUL,

AND DEVOTED SERVANT,

MICHAEL UNDERWOOD.

GREAT MARLBOROUGH STREET, June 22d, 1799.



DEDICATION to a former EDITION.

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 the first edition of this little work with his approbation, will, I hope, apologize for the liberty I a 4 now

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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 inftance has it ever been fo?) the Author has had abundant Evidence from his own Experience, and from the teftimony of Others, of his labours 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,

for, is a prefumptive indication of the favourable opinion of Others.

(ix)

His aim and expectation, from the firft, was public Good; and he has certainly lefs temptation than ever to inferiour 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 still proud of having rereceived his firft Education under the Beft Surgeon in the World, and of fubmitting to the Profeffion, the refult of fome former experience in that line of practice. It were needlefs, therefore, to fay what Claim You, Gentlemen, have to his labours, fhould they appear to have any merit, and the Honour you will do him in accepting this Token of Refpect, from

> GENTLEMEN, Your moft obedient, humble Servant, MICHAEL UNDERWOOD.

Great Marlborough-Street, October 10th, 1788.

TO THE

FIRST EDITION.

No man publishes an opinion to the world, even on the most trivial occasion, without some view to himself, 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 philanthrophy, would not willingly have risked the favourable opinion

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 fome fervice to the diffreffed. He is encouraged to fay thus much, at leaft, having feen very confiderable advantages arifing from a method of treatment, materially different from that at present in fashion. And if any improvement can be fuggested, in a branch of furgery confeffedly imperfect, (for who will deny that fore legs are difficult of a lasting cure?) no great apology can be thought necessary, for communicating to the world any hints on the fubject 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

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 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 loft fight of. In the mean time, his education under the best of mafters, 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 one cause or other, the knowledge of completely healing old ulcers in the legs, has ever been very deficient and uncertain. The

The fubject, though of fo great importance to the fuffering individual, has, perhaps, not appeared of fufficient confequence to eminent furgeons, whole employment has ufually been both of a more profitable, and agreeable kind. It is hoped, gentlemen of this class, who deferve and possels the highest degree of public esteem 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. Befides, any attempt must be laudable to refcue this branch from the hands of quacks and ignorant pretenders, who it must be confessed, have fometimes 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 hereafter mentioned, are not fpecified, but left to the judgment of the furgeon; who will find no difficulty in pro-

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proportioning every active and powerful ingredient, to the nature and variety of each particular cafe, the writer not having the leaft defign of concealing any thing from him.

THE form, indeed, in which these obfervations are presented, requires more excufes than the author knows how to make; but he trufts that the plainnefs, or rather homeliness of their dress, will not fo far prejudice them in the eyes of liberal men, as to prevent their being examined with candour, 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 fludy the correctnefs and embellishments of language. He has, indeed, no pretenfions as a writerbut though truth may be adorned by a florid style, or enforced by elegance of argument, the greatest deficiency in these ornaments cannot invalidate facts, nor juftify

tify an ill-natured criticism, on that which made no part of the author's defign.

As to the mode in which these observations are presented, 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 fome periodical publication, he could not, in fuch a channel, fo 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 pub-

* Mr. Else, Med. Observ. and Inquiries, Vol. iv. lic,

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lic, is cheerfully fubmitted to their confideration.

The author, however, begs leave to urge again his good intentions, and to exprefs his hopes, that the fuccefs of his plan may, in other hands, be equal to his own; and then he fhall expect the fatisfaction of having contributed very greatly to leffening the difficulties and diftreffes of many afflicted fellow-creatures; preferving fome of them from leading miferable lives; and now and then preventing that most dreadful remedy for bad ulcers, the lofs of a limb.



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PRE-

TO THE

SECOND EDITION.

I HIS 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 of much more importance to the fludent. Befides, he is still of opinion, that, on account of the doctrine being fo oppofite 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 stating his own, would not be the best method of combating inveterate prejudices, or likely to establish a new mode of practice, as yet unfupported by great Names. The like reason, 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 The latter especially, he knowledge. 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 modesty, though with a firmness becoming the defence of a mode

b 2

of

of practice, which he conceives to be juftified as well by theory as experience.

IT was in defign, indeed, to have made fome further Diftinctions 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. Some progrefs, indeed, might eafily have been made, but too many difficulties occured to admit of a complete arrangement, with fufficient clearnefs for any good, practical ufe. Such fpecific diftinction may, however, be made, and the careful obferver, determined to purfue and profit by thefe hints, will not long be at a loss for it; but it will be beft attained by experience. For, befides the peculiar fymptoms attendant upon different ulcers, another difcrimination is often neceflary, 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. Archi-

Architecture (if fuch an allufion might be allowed of here) furnifhes 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 fifter-art, 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, the reader, defirous only of practical information, will be ftill fatisfied with the two former general diftinctions of ulcers. Daily experience, it has been faid, will render familiar to him others of lefs importance; will enable him to make a practical arrangement; and from the directions laid down, to felect the treatment beft adapted to every clafs he may make for himfelf.

THE author would think himfelf happy if only the above objections might be made b 3 to

to the work; but he has to lament, that there are yet individuals of high rank in . the profession, who fatisfy themselves with giving their testimony 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 success in their hands.

It is with concern, however, he has to obferve, that it is not likely to prove fo beneficial in *bofpitals* 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, possefield of fo little

little knowledge or attention, that whenever any matter must be submitted to their difcretion and care, (of which the application of tight bandage is a most important one) it is well if patients do not constantly fuffer by it. Not that the plan, indeed, is incapable of very extensive usefulnefs, even in hospitals and dispensaries, 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 inftance, the author has Mr. PEARson's permiffion to fay, that fince the winter of 1783, fome hundred patients have been cured upon this plan, under his direction, at the Lock-Hospital and Carey-Street Dispensary; many of whose ulcers were very large, fome extending nearly round the leg, and of many years standing.

BUT howfoever the peculiar advantages of this plan may, in any inftance, be leffened, it is fubmitted, with increafed conb 4 fidence,

fidence, to the attention of practitioners of every rank, which the writer feels himfelf justified in doing, by the best of motives—from the benefit it has afforded to fo many poor sufferers fince the former edition appeared.

Agreeably to these affertions, he could refer to various other testimones he has received fince the former edition of this work. Out of these, however, he has ventured to select 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 shall 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

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warmest expectations, and ultimately benefit mankind.

DEAR SIR,

MY time has of late been fo much engroffed by bufinefs, that I have not till now had an opportunity of answering the last 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 correspondence. I cannot fay it is the fame, Sir-it fo much exceeds my most fanguine expectation. I have really often been aftonished at the Eafe with which I cure old and large Ulcers of the Legs, by a strict 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 disappointment that first led me, though prejudiced, a priori, against

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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 conftitutes almost the whole of a very extensive business. And I must declare in justice to you, that in the numbers I have cured, I have never observed any inconvenience following the suppression of a discharge, that could be in the least attributed to the running being stopped-And having been myself equally fearful with other practitioners of the bad effects arising from the cure of old ulcers, I have been particularly attentive to this circumftance, 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 instances; 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

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one on which the cure of Ulcers of the Legs ought to be attempted.

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

I fubscribe myself, with the most

respectful esteem,

SIR,

the lags, except in lorcalional

offer. The stand of leilure, more-

w * .is the balt I have to offer for

ions contents appearing again fo

Your obedient,

humble Servant,

T. SMYTH.

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

TO THE

THIRD EDITION.

CONCERNING this third Edition it is proper to obferve, that having fince the former, entirely declined the practice of furgery, and confequently any attention to ulcers on the legs, except in occafional confultations; I can now have very little new to offer. The want of leifure, moreover, to revife minutely the fubfequent pages; though it be to repeat a former apology,* is the beft I have to offer for their various contents appearing again fo nearly in the form they have done before; and with only the flighteft additions to certain parts; and fome of them the refult of reading rather than experience,

* See the preface to the 2d edition.

IT

IT is on both these accounts, that the work has been long out of print, though repeatedly inquired after : but more efpecially has every folicitation been declined during the last year, from the appearance of a fingular method of treating ulcers on the legs; which from the writer's own fuccefs, I conceived might poffibly fuperfede a re-publication of mine. And had I at this time reason to retain the favourable fentiments I had formed, I most certainly should not intrude upon the public a new impression howfoever folicited. But from the best information I have been able to obtain, the application of Mr. BAYNTON's plan to large ulcers has not been fuccefsful in the hands of other practitioners; and the opprobium chirurgorum still remains. It is probable, however, that the ingenious device of the author will have its use in many fores of a moderate fize, particularly about the ankle, as well as in ulcers attended with a varicole state of the extremities : and in the hands of intelligent and careful practitioners, may form a very excellent auxiliary

auxiliary* to the plan which I now fubmit anew to the public; not without fome additional vouchers to its fuccefs.

ANOTHER treatife on this fubject, by an ingenious writer and practitioner, claims a refpectful attention, and promifes likewife no inconfiderable affiftance to fuch furgeons as have adopted my plan; who will, I am perfuaded, find themfelves amply rewarded by an attentive perufal of his work. Mr. Home's Obfervations on the Treatment of Ulcers on the Legs, which appeared foon after Mr. BAYNTON's; befides many excellent practical diffinctions of ulcers, recommends a variety of well adapted topical applications; forming a better claffification of ulcers, + and their appropriate remedies, and exhibiting more of fyftem, than has

* This, indeed, I have myfelf been witnefs to in a late inftance—Whether Mr. Simmons of Manchefter, who has taken up Baynton's plan with certain exceptions and modifications, expects much more from it, is not perfectly clear from the obfervations published the last year in Duncan's Annals of Medieine.

† The younger readers of the prefent edition may hereby be glad to find that defect in this treatife very materially fupplied.

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for many years been attempted. Mr. HOME, however, entertains a less favourable opinion than might have been expected from a gentleman of his extensive practice, and application, of the important article which I am fatisfied from experience, is indifpenfible to the certain and fafe healing of old ulcers on the legs, and applicable in every fpecies with which I am acquainted. And were Mr. HOME induced to allow his patients to walk abroad during their cure, I am perfuaded he would find a tight bandage more fuitable to every kind of ulcer, than he has fuspected, when not in an inflamed state; for during that stage, rest is, indubitably, to be enjoined, and a tight bandage often equally unneceffary and injurious.

It may be no improper conclusion to this preface to obferve more particularly, that befides the author's former experience; the testimonies he has fince received, as well from abroad as from various parts of this kingdom, to the beneficial effects of the plan first submitted to the public fifteen

fifteen years ago; fatisfy him, that whatever other means may be, in fome inftances, neceffary to the cure of old ulcers on the legs, he is justified in offering it again, howfoever precluded from any advantages of minute correction, or protracted practice .- Nor can he avoid adding again, that he must lament its not having hitherto been more generally adopted, both in public and private practice .- It must perhaps fometimes fail, as every remedy has done; although in a more limited fphere, it has been fo generally fuccefsful. But would hospitals assiduously take up this plan, much good must be done; and the author cannot but still hope, that after he shall be unable to invite them to it, practitioners will be found who will have courage enough to forfake the via trita and the lenient plan, and improving upon thefe outlines, will furprife their brethren by fafely healing old ulcers hitherto deemed incurable.

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INTRO-

ERRATUM.

Page 287, line 5, for rigour, e. rigor.

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 thefe ulcers; but it is, by no means, the defign of this work to intrude upon the reader with theory on the nature of the complaint, any further than it may be neceffary, in order to establish the means of a fafe, and lasting cure.

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In

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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 other fores; between recent wounds of the legs, occasioned 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 so far as this end is kept in view, it is hoped, an attempt will not be accounted superfluous.

It fcarcely 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, predifpofed to ulceration; or by any internal caufe,† exciting fuch inflammation in a part as fhall incline it to fuppurate, though no external injury has been received; fuch are fevers of different kinds. To thefe fhould be added neglect, or mifmanagement, when an

* Ulcus est continui folutio ab erofione facta.-GALEN. † Ulceris causa vel interna funt, vel externa.-PAREY.

abfcefs

abfcefs 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 further led to remark the state and circumstances of the limb, which being a depending, and an extreme part of the body, may be regarded as a particular and predisposing cause. 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 discase, and to point out an indication of cure, which in practice has been entirely overlooked.

It being the author's defign fully to inveftigate this fubject, it will be proper, previous to entering upon the cure, to make fome obfervations upon ulcers in general, enlarging a little on fome peculiarities attending those on the lower extremities.

§ Authors

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

But the procefs of ulceration confifts in morethan 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 underftood to mean by an ulcer, a folution of continuity in a foft part of the body, from which an ichorous, purulent, fanious, or vitiated matter is difcharged; attended with a lofs of fubftance in the part.[‡]

This

* HIPPOCRATES excepted, who calls any folution of continuity by that name.

+ WISEMAN, TURNER, BELL.

" Partis mollis folutio purulenta, vel ichorofa." CULLEN. Les ulceres font des folutions de continuité dans les parties molles, avec ecoulement de pus." Traité des Tumeurs et des Ulceres.

[‡]SENNERTUS and HOFFMAN give nearly this definition-" Ulcus dicitur folutio continui cum imminuta magnitudine, in parte molli, a materia erodente ortum habens. Differunt nimirum in eo vulnus et ulcus, quod in vulnere faltem eft foluta unitas, nihil verò neceffario de parte amiffum eft; in ulcere verò femper aliquid de parte affecta imminutum et amiffum

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 must have 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.

amiffum eft, fi non plus, faltem cuticula." SENNERTUS. lib. 5. pars 2. "Sunt autem ulcera partium folidarum, atque mollium cum cavitate quadam minori, ichorem tenuem, falfum et acrem fundente, diffolutiones et erofiones a fero extravafato, et corrupto originem ducentes." HOFFMAN, cap. vi. § 1.

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

II. It

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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 alfo of ulcers deferves our attention. They may affect the furfaces of parts, in the manner of an eryfipelas; or partake more of the nature of a phlegmon, by being feated in the fubftances 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 confti-

* Cancerous, &c. " Ulcera Hydropicorum vix imo ne vix curantur." HIPPOC. Lib. vi. Aph. 45.

tution,

tution, † 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 live freely, or ufe much exercife, it is highly probable the fore will break out again. In fuch a cafe, it may be faid the perfon has been cured, but he is not reftored to fociety. A very natural inquiry fuggefts itfelf here, viz. Is this the only

rational

⁺ SHARP's Surgery. Introduct. hage 29.

^{\$} Ib. hage 38 .- || Ib. hage 31.

rational method of treating fuch ulcers?—If it can be proved, that a ftrict courfe of regimen is generally unneceffary, and that abfolute reft is often not only needlefs, but prejudicial; if it can be demonstrated, that by a different mode of treatment, they may be as certainly, and often as fpeedily cured, and without danger of relapfe; it becomes a fubject 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.

Thefe extremities being depending parts, a ftagnation of the circulating fluids has been offered by fome as an explanation; whilft

* It is a maxim in furgery, that abfceffes 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.

others

others have attributed it to a defcent of depraved or vitiated humours.*

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 observer, 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: Edema sometimes precedes, sometimes accompanies, and often seems to be a confequence of ulcers, but is only one evidence amongst others, of cachexy.

* See WISEMAN, TURNER, SHARP.

GALEN. De Ulceribus malignantis Naturæ. " Talia enim appello, in quibus aut pars affecta tam vitiofo habitu eft prædita, ut vel optimum fanguinem, qui nutritionis gratia confluit, corrumpat: aut id quod influit, adeo perverfum exifiit, ut etiamfi pars recté fe habeat, ab ipfo tamen folo 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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The fecond enumerated caufe flands merely on an hypothetical bafis. 'Till we get more diffinct ideas of what is meant by vitiated, or depraved humours, and have their exiftence demonstrated, it ought not to be admitted as the occasion of the difference in queftion; efpecially as this difference is capable of being very confiderably leffened, merely by topical applications and exercise, as will be fhewn in its proper place.

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

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 vigour 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

its falutary power to the fame caufe) is diminisched likewise?

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 pofition 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: inquifitive men have, indeed, affiduously investigated it, but to how little purpose, the fuccess, or rather the want of fuccess in general practice, too evidently demonstrates.—I have ventured to

to fuppofe, 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 fyftem prevails, that plan must be purfued, which is most likely to produce a state of general ftrength; 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 fuggest, that those two causes cannot exist together; they very often meet in the fame fubject: butit is proper to obferve, that they may, and often do exift 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 conftitution to overcome a difeafe, 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 in-

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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 affected with this kind of fore, though he fhould not entirely confine himfelf, will be difpofed to walk lefs than ufual, and to give the leg fome little indulgence. The ftimulus, thus irregularly applied, excites the veffels to an increafed 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 fubstance, always precedes the fhooting of granulations, perhaps only the first part of the process is completed; 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 abfolute reft is deemed a neceffary requifite towards obtaining a cure .- Whether this be as evident as it hath been generally imagined, is a mat-

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a matter very much to be doubted indeed, and is worthy of further inquiry.

§ It appears then to be rational, as well as agreeable to experience, to fuppofe, that, neither the only, nor yet the chief obstacle to the healing of ulcers can arife from the legs being depending parts of the body, but as hath been observed, from their being extreme parts, where the circulation is leaft 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 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

the aorta, and the continued exercise from their more conftant use. The lower extremities being still further distant, and not fo much engaged, have these difadvantages compenfated by the exercife nature has impofed upon them, in the fupport 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 position: for here, whilst the moles movenda is great, the vires moventes are diminished. It is therefore prefumed, that exercife being fo neceffary to fupport general health, and particularly the vigour of the extremities themfelves, is fo far from being pofitively 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 proper means to regulate the effects of exercife, rather than to aim at a cure fome other way, by fubverting the order of nature, and depriving the patient, for a time, of a neceffary

neceffary mean of fupporting, or recovering his health; which pernicious cuftom, it is prefumed, is one principal occasion of the difficulty in question.

IT may be neceffary to paufe here, to take fome notice of certain objections made to this mode of reafoning, particularly by the Editors of the Critical Review. It fhould feem, that fome of their strictures have arisen either from my having expressed myfelf inaccurately, or from fome mistake on their part; or it is not likely they would have adduced the inftance of the division of the facro-fciatic nerve of a frog, in opposition to the theory I had ventured to advance. By this inftance they would intimate, that great nervous energy is not fo neceffary in order to the healing of ulcers on the lower extremities, as I am fuppofed to have imagined; and that " my " theory is therefore fallacious, and the con-" fequences 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 illustrating the fubject in difpute; but fhall only point out what my position has uniformly been, viz. that the circulation of the blood in the lower extremities

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extremities is too languid for the purpole 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 demonstrable from the vast coldnefs 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 fuperiour parts; and wounds occafioned merely by accident, and under every favourable circumstance of age, conflitution, &c. and brought into a good state, 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 conflitution 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 fense 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

of the animal economy is, indubitably, wife and falutary on the whole, though it will not follow that it is conducive to the healing of ulcers fo circumftanced; and will ferve to illuftrate the propriety of a meafure of that exercife which nature has evidently defigned the legs to fuftain, and which is fo much infifted upon in the courfe of this work.*

§ The nature of the ulcerative process next deferves our confideration. When from fome

* The idea of a defect of vital energy in the part, has lately met with further fupport from experiment, or rather from facts; 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 honour 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 firring 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.

caufe,

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, fanies, &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 economy, and the obfervations of the moft accurate phyfiologifts.

The perfect folution of a foft part, even when removed from the body, is not eafily effected by art, unlefs it be immerfed in cauf-

* "Vascula distenta rupta cum dolore, calore, pulsu, liquores suos effundunt, folvunt, putrefaciunt leviter, solida tenera atterunt, solvunt, 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 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. Port. vol. i. p. 315.—The fallacy of this fentiment has fince the former editions of this work been fo ably fet forth by fome late publications of Phyfiologifts, that it must be needlefs to enlarge on the fubject.

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tic liquors, much lefs have we ever feen mufcular flesh, and cellular membrane converted into a fluid refembling pus. Simple division 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 state of disfolution, we are certainly not authorized to conclude, that there is a fimilar arrangement of particles. Befides, we ought to find the most profuse difcharge from an ulcer during the exfoliation of its floughy covering; whereas the reverfe of this is really the cafe: an ulcer never pouring out fo large a quantity of good matter, as during a few of the first days after its furface has become clean. And every practitioner must recollect having feen cafes, where the dimensions of an ulcer have been increafed to twice its fize, in the fpace of a few hours, without fuch a proportionate increafe of the difcharge, as we ought to expect under the idea of diffolution.

The process of ulceration seems to be a certain act of the absorbent system, whereby in

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in confequence of a ftimulus, it takes up the foft parts, and carries them into the circulation.* No anatomift can doubt the poffibility of this, when he confiders, that ointments, and even powders are readily abforbed, efpecially where there is a want of cuticular covering.† If this account of the matter be admitted, we fhall be affifted in underftanding the caufe of the rapid progrefs of ulceration, the exfoliation of dead foft parts, and defquamation 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 conftituent 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 ulcera-

* Phyfiology, I believe, is indebted to the late 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 fystem.

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tion

tion 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 inconfistent with it. On the other hand, it is conceived, that the increased dimensions of ulcers depend very much upon the retraction of the found parts. 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 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 leaft, I imagine fome arguments are advanced that will not eafily 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

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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 fpoken of, the effect of difease 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, efpecially of laudable matter, depends on the healthy flate of an ulcer, or the due action of the veffels, 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 fuppuration of abfceffes and ulcers, where the parts are fuppofed to be melted down into 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 economy; and which was, indeed, the chief matter I intended C4

tended to controvert, and must still think, is far lefs probable than that act of the abforbents, conceived of by Mr. HUNTER; although it should not be perfectly accurate, nor the sole cause of the apparent increase of the ulcer.

§ 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 ulcers are drains to carry off peccant humours; * or diffolved cellular and mufcular fubftance; † we have been told, indeed, that pus exifts in the blood, and is

* " 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 vifcid 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 eft ut suppuratur. HIPPOC. Aph. xx. Lib. 6.

"Hac enim parte caro putrefcit et exulceratur, et accedentem pituitam et bilem, infuper putrefacit, et fit pus." Id. de Morbis. Lib. 2.—See alfo CULLEN.

poured

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poured forth at thefe outlets.—The laftmentioned 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 further difcuffion of the fubject.

"The moft probable opinion," (fays a very ingenious and refpectable 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 abfceffes." This opinion ftands fupported by the moft refpectable authorities,† but is not free from difficulties. Serous effufions made from a furface, that is not in a ftate of inflammation, will remain for months unchanged, and never affume the appearance of pus.‡ More or lefs inflammation || feems ab-

* 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.

folutely
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folutely neceffary to its formation. It may likewife be obferved, that the nature of the difcharge depends greatly upon the healthy, or morbid flate 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 not neceffary, that a part fhould have precifely what we underftand by a glandular ftructure, in order to fecrete fluids for 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 effufed ferum. If it were merely ferum, it would be more irritating as its confiftency increafed, the reverfe of which is the cafe. 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 muft feek for the caufe of this acrimony in the different action of the veffels .- Thefe varioufly excited, by external or internal ftimuli, to irregularities in their action, may likewife affift us in our inquiries after

that it is meant to be underftood, that pus is fecreted 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, furnishing a great quantity of good pus, are 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

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 poffibly be inadequate to the production of true pus; and whether an *erofion*, or *lofs* of *fubflance*, may not be effential to that particular fecretion.

* SIR JOHN PRINGLE. (Appendix.)

+ From hence, a fallacy may be differend 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 humouroufly obferves, if it can be fhewn,

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 difcharged from a wound bears any regular proportion either in quantity, or quality, to the supposed 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 fupport of this theory, however, I shall mention one fact that may merit fome attention; viz. that not only

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 obfructed 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 HEALING.

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

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 obferve.

But, the idea of true pus being a diffolution of the mufcular and cellular fubftance, &c. may, in another point of view, feem to demand a little further attention. In fupport of this opinion, we are told, that in every collection of matter, there is actually very confiderable lofs of fubftance 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 adipofe membrane; the greater part of which, however, feems only to be condenfed. To examine this point a little more narrowly, let us take a view of it where the fact ought to be the most evident, as in the cafe of large imposthumations, fuch as the ploas abfcefs; 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 destruction of muscle, vessels, cellular and adipofe membrane, equal to the quantity of

of pus, or the cavity that is formed? What ! a pound * of muscle and adipofe membrane deftroyed? A bulk, equal to a pint, or more, of matter ?- We may, indeed, find the mufcles feparated one from another, and the cellular membrane torn away by the weight of the fluid : or fometimes a mufcle 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 abforption of parts into the conftitution. For whatever has been faid on the latter, is merely to account for a lofs of parts, which fometimes actually difappear in the process of ulceration; but the former opinion fuppofes a quantity of parts to be deftroyed, (in order to account for exceffive fuppuration) where there is no fuch manifest difappearance. Moreover, in large collections of matter, there is not only a prodigious difcharge on the first burfting of the abfcefs, but it often continues immoderate for days, and even for months, till the patient is

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

deftroyed

deftroyed by it: yet upon opening the body, only a very fmall portion of mufcle 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 abforbed. To fum up the whole, it appears, that in the former inftance of the fudden fpreading of an ulcer,* the difcharge is, by no means, proportionate to the 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 furnifh the whole of thefe purulent matters, but fo much of them is melted down as gives tenacity to the fluid; and is an effential ingredient in true pus.[†] Befides what has been already advanced in anfwer to this latter affertion, it may be obferved, that wherever there is an evident admixture of fat, or of the craffimentum of blood, or the parts are in a lax and

* Page 20.

+ BOERHAAVE, Mr. POTT, &c.

floughy

floughy flate, the pus is never good, but always thin, difcoloured, or fetid. Whereas, when the furface of an ulcer is firm and florid, without the leaft appearance of the melting down of parts, (as it is called) there, it has been obferved, 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 difcharge, it can fupply only a very fmall part of it, and is rather an accident, in particular inftances, than a neceffary ingredient in true pus. This, I think, may be fufficiently manifest from what has been faid above on the flate of the parts, as they appear in those who die of an atrophy, in confequence of very large incurable abfceffes, as well as from the foul flate of every fore, and the impurity of the pus, 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 occafioned thereby, the difficulty is not removed, and the queftion returns, viz. how is pus formed?-a queftion I have attempted to anfwer, and it is hoped, in a manner, that for any thing that has yet been advanced to the contrary,

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 fubfituting a drain in fome convenient part, in its flead.* This opinion is founded partly on theory, partly on obfervation. If we regard old ulcers as drains, or outlets for vitiated humours;† the evacuants of a confiderable quantity of fluids, where retention muft diforder, or overload the fyftem,

* See Mr. BELL, On Ulcers, who thinks iffues in all cafes indifpenfible; of which fentiment further 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, $\mathcal{C}c.$)—The improbability of the idea of humours exifting in the blood, and difcharging from ulcers, has been lately ably difcuffed by Dr. Cullen, Mr. Bell, and Everard Home, Efq. in the Philof. Tranfac. Vol. 81.

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and

and induce plethora, * &c. fuch ideas must naturally produce 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

* Mr. Bell.

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+ Le DRAN'S Obfervations-SHARP'S SURGERY, Introtroduction.

‡ Ulcera diuturna et inveterata non fine periculo curantur, nifi corpus diligentur purgetur, et victus ratio bona obfervetur; cujus rei exemplum habet *Gal. Fabricius*, de quodam viro qui cum ulcus inveteratum in crure finiftro ab empirico $a\mu i \theta o \delta c$; curatum fuiffet, poft menfes aliquot pleuritide in finiftro latere correptus, atque inde mortuus eft, et morbo durante *talia* expuit, *qualia* antea ex ulcere effluere folebant.

SENNERTUS, Lib. v. Prognoffica.

have

have been attributed to fuch cures as to their proper caufe .- The post Hoc and propter Hoc, it is well known, require a judicious difcrimination .- Where, indeed, there has long been a very profuse discharge of matter, a ceffation of the accustomed evacuation may have some influence. But if particular cases be excepted, it is more than probable, that the effect of ulcers upon the conftitution, is not to be imputed to the Quantity, much lefs to the Quality of the matter difcharged by them; which it is likely, depend on the state and action of the vessels of the part, where, at least, there is no fpecific contagion. No opinion is more popular than the existence of humours in the blood; and perhaps very few opinions have less 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 further, 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 D 2 has,

has, indeed, been ftrongly afferted by many, and is urged by Mr. BELL in the last 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 not ulcers 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 mischievous tendency? Whatever may be the habit of body, were we always to form our prognoffic of the termination of ulcers, from the quantity of furface they occupy, or the fluids they discharge, 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 shall fave the life, and reftore the health of the patient.

It has been obferved 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

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 in-debted 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-chofen inftance. 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, it 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 accomplifhed; whereby the veffels of the part are left under a certain diffempered flate and morbid action, which terminates 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 circumstance of fuch importance in regard to fore legs, that if pro-D 3 perly

perly 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 intereft 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 reafon and experience. Nor do objectors, I imagine, defign to prohibit the cure of them on every occasion, in the fear of afthma, 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 nevertheless in no fear of inducing an asthma, 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 circumflance of the length of time an ulcer

ulcer may happen to have fubfifted, and particularly with regard to 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

* An anonymous writer, who lately fuggefted his thoughts on ulcerated legs, with a view to lead furgeons to invefligate the fubject, jufily claims from his candour a title to notice, efpecially from me, for the polite mention made of the plan I had recommended, which was then but just publifhed. 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 practice 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 inflance, or the fore often breaks out again. In further 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 flate; which once effected, dreffing them with a mild digeflive will not keep them open, (as he has fuggefied, in cafes 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 pea be 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 D4 blifters

the occafion of more amputations, than almost all the injuries from violence and accident, which usually attend the lower classes 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 profufe, 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

blifters are fometimes difficult to be healed; and every practitioner muft have known them continue open for two or three months, in fpight of every attempt to the contrary, efpecially in teething children; though here, it is acknowledged, the evil is not local. This writer'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 ftimulus 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

state of tension by the constant stimulus of an ulcer, and nature fruitlefsly exhaufting herfelf to subdue an obstinate disease, will fufficiently account for that train of ill fymptoms, which fometimes accompanies 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 fuppofe, that there is any fpecific virtue in cantharides, neither do we regard them as the evacuants of vitiated humours. It is a fact pretty generally admitted, that however plentifully a bliftered part may

toms of irritation, than the inflammation of other parts: by fuch fymptoms therefore are meant, great deprefion of firength, anxiety, frequent refpiration, quick and fmall pulfe, a tendency to delirium, or fpafmodic affections of the mufcles. Thefe fymptoms do not indicate a difeafe of the general fyftem, but depend upon the prefence of an irritating caufe; and when the caufe is removed, the effect immediately ceafes.

* Natura enim, femper, folicita est in confervatione individui fui, morbifque sefe opponit; sed prout valida aut imbecillis fuerit, aut victrix evadit, aut succumbit. HIL-DANUS, Observ. Chirurg. 77.

pour

pour out its ferum, it is often more advantageous to heal the fore, and apply a frefh ftimulant, than to keep it open by mild digeftives. If the good effects of blifters, therefore, be admitted upon thefe principles, why reject this reafoning 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 queftion may be refumed, viz. Is it always proper to attempt the cure of ulcers? Were a general and direct anfwer 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 dimenfions. To this may be added, 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 all thefe cafes, 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, k. 40.

in its ftead; † 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 ftimulus 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 infenfibly occurred to the author in the courfe of his practice, nor did he difcern half their force, till repeated experience constrained him to attend to them, and forced on his mind fuch reflections as led to fupport them. Be it observed, however, once for all, that fuccefs preceded his reafonings; and though he should have failed in his theory, the facts ftand unaltered, and every man will find himfelf at liberty to prefer his own illustration of them. He concludes it, indeed, far fafer, even industriously to invent a specious theory

† LE DRAN, BELL. The latter has fome obfervations tending to prove, that the difcharge from a common iffue is ufually much greater than is generally imagined.

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.

I N the treatment of ulcers on the lower extremities, it has been effeemed of the utmost 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 state; whilst others, from their long continuance, magnitude, or the 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

Whether there be many ulcers whofe cure may not be undertaken with the greateft fafety, and probability of fuccefs, I fhall not difpute again in this place;* and however numerous they may be, the known rules of art are fufficient for every thing 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 flate fome practitioners have imagined.

To purfue this intention more perfectly, it will be neceffary to take a comprehensive view of the usual modes of treatment recommended, together with the internal remedies on which surgeons 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 some warm advocates even from the prefs.

* See Introduction, pages 33, 43.

But

But I shall only glance at such things as have not been generally adopted, and fhall chiefly confine my observations to those in great credit amongft furgeons of reputation ; who the author of this little effay wifnes may perufe it with the fame degree of candour, 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 fuperiour abilities of many of those who may be his readers, as well as their more extensive experience in the general practice of furgeryhe thinks, however, he has fome improvements to offer on the article of ulcers, though there are fo many others, in which he should think it fufficiently honourable to fay, I pra, sequar, si non passibus æquis.

It may be proper to begin with the internal remedies, as they will require but few obfervations, and will ferve to unfold the nature of the plan propofed in the following pages. Amongft 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 fuccefs we were once made to expect, in any of those for which it

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it was at firft 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 physicians, and particularly those great ornaments to the profession, the late Drs. WARREN and FOTHERGILL, many fevere anomalous complaints have been immediately relieved by it, after having withstrong withflood every rational mean that could be thought of.*—The cicuta, however, is no specific for fore legs, and though it may have its

* Of this, the writer of thefe pages was, perhaps, one of the most fortunate inflances, when under the care of the late 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 ftomach, and for which Dr. WARREN had previoufly directed cordials, bitters, and opium, without any lafting advantage.-The author has continued thefe remarks on this remedy, (though its virtues are now pretty well afcertained,) as a fmall token of Refpect to the memory of that very eminent Phyfician, to whofe long Friendship and Services he has been under the most delicate Obligations; and as, by no means, the leaft of them, that he was, more than once, the kind inftrument of prolonging the valuable days of the author's nearest relative, and choicest comfort in life. The cicuta hath likewife been fometimes efficacious in difeafes 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 fhould continue to be as fuccefsful as he has in feveral inftances experienced it.

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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 hospital; but it is certainly much too powerful and uncertain a remedy for general ufe, and no rule has been found whereby a judgement might be formed of the probability of its fucceeding, unless it may be faid in cases attended with great pain; and herein it is not only far less certain than opium, but much inferiour to the cicuta. It may, however, be administered 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 re-

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* Dr. ROWLEY, On Ulcers of the Legs.

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gardful of every thing that promifed relief in thefe complaints, I was readily difposed 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 fyftem, 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 unpleafant effects in certain conftitutions, may be confidered as another objection to its general ufe. It is, indeed, a well known and powerful diuretic, but when taken in the manner 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.

* Vide the Introduction.

Before

BEFORE I proceed to inquire further 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 fome degree empirical, probably fome good may have been done by it. And it fo far coincides with the prefent plan, as it proves a ftimulus, 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

* Defrictio poteft folvere, ligare, incarnare, minuere; dura ligare: mollis folvere: multa minuere: moderata craffefacere. HIPPOC. Officin. Med.

others

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others without the ufe of tight bandage. One of thefe makes free ufe of the mercur. corrofiv. rub. and as it appears, with very good fuccefs: 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 thefe methods, there are others which have been ufed in different parts of the kingdom, not without fome fuccefs; but fo much pains has been taken to conceal them, that their good effects are neceffarily very limited. Among thefe, the most remarkable that has come to my knowledge, is that long practifed by a respectable gentleman not of the profession; who died soon after the former edition of this work appeared. He, indeed, ever kept his remedies as fecret as possible; but,

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 profession.

I proceed now to take notice of fuch internal remedies as have been in more general ufe, and are ftill in great reputation with the beft practitioners in furgery.

The first I shall mention is MERCURY .- This may, indeed, be used 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 vaft difcharge it occafions by the various fecretions, in a few inftances carry off fomething that has been injurious to the habit, and may efpecially keep it from the wound, and from counteracting the furgeon's defigns; but it is very probable, it ufually acts far more powerfully by reducing the vis vitæ for the prefent, and thereby coincides with the intentions of reft, diet, and purgatives, as will be further fhewn in the fequel of this work. And every

* See FALCK on Mercury. + See SHARP's Surgery.

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candid practitioner will allow, that of all the cafes of fore legs that return fo frequently to the hofpitals, the greater number is from thofe who were cured under a courfe of mercury; nor is it even probable, that ftrong and laborious men, whofe fores have been healed by the means of fo debilitating a plan, fhould continue long in a found ftate, when the patients return to their ufual diet and exercife.

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 practife without it: but

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 prefcribed. 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 mean ufed under the idea of expediting a cure. It may be doubted, indeed, if it ever acts as an aftringent in this way, but if it does, it will be often injurious, as will be further 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 moft antient practice;* and this I am ready to do both on the prefent, and every other occafion, when I fhall be found differing from gentlemen who have made furgery their fludy and practice much longer, and to more advantage than I

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

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have pretended to .- But, amicus Plato, amicus Socrates, sed magis amica veritas .- To yield to any authority, would here be criminal. Facts muft, and will stand.-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 relapse of fore legs. Nature is compelled to dry up the furface of the ulcer, by the improper help of epulotics, reft, abstinence and phyfic, rather than encouraged to throw off by the fore, whatever is offenfive, to fill up the furface with found flefh, and gradually to abate the discharge, only in proportion as that furface diminishes .- This is the work of nature .- 'NETWY QUTIS in pos* -art should 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 difpose them to remain fo; nay on the other hand, I venture to affert, that the long continued use of them is needlefs,

* HIPPOC. Ehidem. Lib. vi. § 5.

and

and even prejudicial, in the cure itfelf, as is every other mean of lowering the ftrength, and for the prefent 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 poffeffed 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 conflictutions, 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 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, there-

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therefore, that 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 state 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

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

fafety

fafety and advantage of fuch a diet will be particularized in another place, at prefent I shall confine myself to what is judged to be improper, and shall therefore briefly point out the difadvantages of an error in this respect. A low and very limited diet, by its effects in weakening the conftitution, 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. Befides, cures effected under fuch a regimen are very unlikely to fland, and accordingly very rarely continue for any length of time. In many patients, and especially 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 difcipline, in the management of fore legs, is that universal maxim, omnis subita immutatio periculosa; for indeed nature is abhorrent from

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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, 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 pofition 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

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

CELSUS, Lib. i. cap. 3.

† 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 Traité 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

and though it may feem bold, yet it is the leading defign of this publication to attempt to fet it afide, at least, to propose a method of cure without it, better, more rational, and lafting. And here it will, doubtlefs, be fupposed, that every idea of necessity, 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 conftancy, with which large and old ulcers on the legs are found to 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 ufe, together with the position of the affected part, and the diet of the patient, I shall proceed to make fome observations on the

"Above all things reft, and an horizontal position, which last circumstance is of fo great importance to the cure of ulcers on the legs, that unless the patient will conform to it strictly, the skill of the furgeon will often avail nothing." SHARP's Surgery. (Introduction) p. 38.

ordinary
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ordinary topical applications, the more immediate province of furgery.

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 likewife 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 obferved, relates to their long continued use ; an occasional recourfe to them, efpecially in the commencement of the cure, and in fome inftances hereafter to be fpecified, may be fometimes, though not very frequently neceffary.

* See BELL. Part ii. §. 2.

† Id.

With-

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 ftimulating 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 proposing a plan of cure more certain and agreeable, as well as more durable than any hitherto defcribed. Indeed, the fuccess 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 posses But to fave the trouble and pain of confinement and first regimen; almost without the use of internal remedies, which in general are not very much relished by patients of any class, is furely

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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 accomplishment, first, to bring the fore into a good condition with respect to its appearance, its discharge, 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 fubftance, or caries of the bone: but fuch incarnation is here included in the first idea, as it usually 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

mon 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 fubfift 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.*

* " I fhould be unjuft if I did not remark, that when thefe terrible fcorbutic ulcers are cured by this method, (a fuppurative poultice) 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 translated to the lungs, or other noble part : for it is a well known maxim, that ab extra intus redire, malum eft." FREKE's Art of Healing .- Though come of this reafoning may not be correct, the fact is, neverthelefs, in point.

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THE means of accomplifting thefe intentions may be ranked under four general heads, External Applications, Bandage, Exercife, 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, efcharotics, and a certain kind of astringents.

In order to flate 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, against 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 remarkable, that very irritating applications to these ulcers fcarce ever induce it, especially, (however incredible

ble it may appear) where exercife is freely allowed; which by its tendency to promote the difcharge, fo far counteracts inflammation,

The precife form of fuch digeftives, it would be thought trifling to infift upon, as the Pharmacopœiæ of London and Edinburgb for the moft 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 refpects, however, fome one of the more active among thefe prefcribed formulæ, will in a very few days produce a fine furface on an old, and very painful fore, and with the affiftance of exercife, a good diet, and proper roller, will in a variety of cafes, and without any other means, effect a fpeedy and laft-

* It may be ufeful, however, juft to fay, that the Unguent. Bafil. nigr. of the London Pharmacop. as a digeftive for ulcers on the legs, is as much preferable to the Bafil. 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 fuccefs, have been at great pains in making experiments in regard to topicals, before they could be fatisfied what might beft correspond with the hints I had formerly given.

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ing

ing 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.

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 ufe 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 disposition to break out again into a fore, if precipitately healed. It is to prevent this, that the difcharge is directed to be kept up as long as nature shall be difpofed to it, inftead of having early recourfe to drying, or healing applications, as they are called, in order to haften the cure; and for which, in the greater number of cafes, there will be found little occasion on this plan.

But

But to pafs on to things more liable to objection, fuch as very ftimulating, and corrofive applications. Here, I wish first of all to obviate in part the force of a principal objection, that they occasion pain, (which, however, they often remove,)* by obferving, 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 they are used chiefly to fores in a certain state, which will very well endure them, and are rendered very tolerable at the worft, by means of that exercise fo continually inculcated. For I have been conftantly told by patients to whom they have been the most freely ufed, that walking always mitigates the pain, which accordingly is fevereft 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 fprinkling it on the part; befides which, we are to confider, that one dreffing in this manner fre-

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

quently

quently superfedes the necessity of many repetitions of it, in a more moderate way.

Another objection may arife from the ftimulus fuch applications will occasion, endangering inflammation, and rendering an ill-conditioned fore still more obstinate, by producing a fharp and ichorous difcharge more abundantly corrofive. This is certainly true in a few cafes, of which I shall speak in their proper place, but in a general way, facts prove directly the contrary ; fores on the legs require a stimulus,* 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 fmall ulcers, and this 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

* 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 onestake no place, we proceed to the stronger."

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the ulcer, when fmall, been nearly filled up in a few days.

Befides objections taken from the pain, and other effects of fuch evident stimuli, it may be further remarked against the quantity and manner, in which fuch applications are ufed, 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 maintaining, in many cafes, 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 usual diet and exercise.

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 F_4 not

not wanting obvious facts to support them; it being univerfally acknowledged there are many cafes, even where a kind of fpurious inflammation* attends, in which they prove more fpeedily ufeful 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 ftomach, which are generally cured in a few days, by a little burnt alum, a flight touch with the argent. nitratum, or a drop of fpirit of fea-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 un-

* 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 diffimilar to that always met with in true inflammation. Of this fpurious kind may be ranked Eryfipelas, the treatment of which, it is well known, ought to be materially different from that of the true phlegmon—But the subject is not proper for further difcussion in this place, and would lead me too far; though it may be necessary the reader should keep the diffinction in view, in regard to various passages, as well as the practice frequently inculcated, in the following pages.

diluted

diluted fpirit of falt,* and is cured by it, when bland applications would increafe the complaint. It is alfo well known, that fome fmall ulcers upon other parts of the body, (and even affections of the eye-lids) which are apt to furnifh an almost caustic difcharge, and are therefore intolerably painful, and difficult of cure under lenient applications, are frequently dried up in a very short time, by a few flight touches of the lunar caustic ; which by destroying fome little inflamed gland, removes the fource 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 materially to suppress the discharge, but rather to brace the furface of some particular ulcers: besides, the use of them is not constant, and is feldom long continued.

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

I COME

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 fuspected, to fay, that facts are ftronger 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, when applied to large, hard fwellings of the leg with varicofe 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 clearest proofs, when there is a fore on the leg; the discharge from which, cannot but tend to obviate

by digeftives and exercife, it will abate only in

* See WISEMAN's Surgery, Book ii. Chap. 4. Obferv. 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 ufed 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 inflance, to wave my prejudices againft introducing cafes on difputable points. To avoid breaking in upon the fubject, however, I have thrown it into a note, which the reader may pass over if he pleafes .- A young woman, whofe mother had been afflicted with a painful tumour and hardnefs of the leg, a fchirrhus 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 fhe was let blood and purged, which took off the inflammation, but the 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 inflame for fome

† Aut famam fequere, aut fibi convenientia finge,
* Scriptor- HORACE, de Arte Poetica.

years;

in proportion as the ulcer diminishes in fize ; which, as will be shewn prefently, is permitted, rather than compelled to dry up.

Befides

years; when the 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 most pain about the return of that period.

At the age of two and twenty fhe married, and foon becoming pregnant, her ftomach was much indifpofed, and fhe fuffered in that way for feveral weeks. During this time, her leg became abundantly better, the hardnefs and tumour 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 geftation, her ftomach 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 oozing 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 an 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 completely give way. I therefore did what I could to prevent the further cracking of the fkin; but without abfolute reft, this was fcarcely to be expected, nor is it certain, even that could

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

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 fore 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 digeflive, 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, increafing 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 coarfe linen, with advantages no linen can have; it not only being fofter, fitting eafier, and making no plaits on the fkin, but is elaftic

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 many other ulcers, when the patient is permitted to walk, it was always most painful in the night, for which reafon, fhe was obliged to take occafionally 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, fhe was not only permitted, but compelled to walk out, and always came home eafier, though fhe often walked further 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 fpecify, the application of precipitate, though it fometimes gave great pain for an hour or two, proved an occafion of fpeedier eafe on the whole, as it defiroyed 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 firft made use of, the ulcer discharged a caustic 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 tumour 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

elastic 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 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 flanding upright, find immediate relief in this refpect, 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 no fmall improvement in rollers for the legs, that flannel is fubftituted for linen, and that they are made up in the man-

there was no remarkable return of the ficknefs, and fhe has now lain-in above a twelve-month. Neither did geftation 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 much has been obferved by authors on this head.—" Impregnantibus ulcerum curatio difficilis, propter retentionem fuperfluitatum earum, propterea quod ipfarum menftrua retinentur."

AVICENNA, de Ulceribus. Lib. iv.

This perfon has fince the first edition of this tract lainin a fecond time, and has enjoyed good health, the leg also continuing perfectly well.

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ner here recommended. I fhould neither fpeak with fuch confidence, nor enlarge as I have done about trifles; having feen enough to prevent my depending on a few fortunate cafes, or venturing to publifh 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 their action is rendered more general and regular: we may even fuppofe 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.

* See page 91. Note.

IV. The

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, fustains, 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 smoothly; 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 fashion, though once in great efteem with eminent furgeons, and particularly WISEMAN; whose contrivance the laced-stocking feems to have been. The ancients, 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 more speedy closing up of deep ulcers after a proper digestion; or at the most,

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as expulsive, to prevent fluxion to a part; but their bandages were but ill-calculated to anfwer the end, and were never applied fo tight as WISEMAN recommended, nor with particular reference to the legs. WISEMAN himfelf, however, does not appear to have underftood all the advantages he derived from the use of his laced-flocking, as he feems apprehenfive that the cure of ulcers on the legs obtained by this means, are lefs likely to stand, 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 pofition of the limb, to prevent what is termed a defcent of humours to the fore, and the cedematous fwelling that often accompanies thefe ulcers. But his reafoning was certainly not fo good as his practice, and had his bandage effected nothing beyond his intentions, his fuccefs would have been much lefs than it was. The roller has many other uses befides counteracting the difpolition to ædema, (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

the parts contiguous to the ulcer are found to wafte, or diminifh confiderably; infomuch that Meffrs. Fabre and Louis,* eminent furgeons in Paris, attribute the whole of this procefs to what they call un affaifement, or a wafting away of the extremities of thefe capillary veffels. This, indeed, is by no means the whole of the cafe,† though it is principally hereby, that the cicatrice in deep ulcers approaches the level of the furrounding parts, when fuch wounds are perfectly healed; and this, (as hath been mentioned already) ought to be the cafe in newly healed ulcers; and when it is not, the cure in general is not very likely to ftand.

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

* Memoires de l'Academie de Chirurgie, Vol. iv.

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

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other

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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 the late Mr. BROMFEILD, I know, 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 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 have been indebted to that gentleman; to whofe memory the public well knows its obligations in matters of greater importance.

Upon this head, I am alfo obligated to the ingenious author of a Treatife upon Ulcers before-mentioned,* whofe reafoning long ago perfectly fatisfied me, as to the fafety and advantages of tight bandage, and determined

* BELL, Part ii. § 2. See also CLARE, On Absceffes.

me boldly to pufh the experiment, till I fhould find reafon to change my opinion; which this publication is proof enough I have not. But the laced-flocking fo much recommended by WISEMAN, falls far fhort of this double intention, and is every wife inferiour 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 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

* WISEMAN, indeed, almost everywhere prefers the lacedflocking to the roller, giving for a reafon that the roller makes a lefs uniform preffure, and even bruifes the parts : but however this may be with a linen bandage, no laced-flocking can be fo fmooth, firm, or fo pleafant as a flannel roller. The great advantages of which are now fo evident to me. that however neceffary furgeons may think reft to be in fome very bad cafes, however attached to particular diet or dreffings, or prejudiced against any part of this work ; I would, entirely upon principle, importune them to add to all thefe, the conftant ufe of a flannel roller, and can affure them of far greater fuccefs than they have ever had, in every ulcer of the lower extremities. Its advantages, however, are not confined to fuch cafes, for I may venture to affert from further experience of its utility, that a flannel roller is greatly preferable to a linen one, in almost every cafe where a roller is had recourfe to, and particularly after amputations, efpecially in the improved method, as Mr. AL-LANSON'S may now justly be flyled.

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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 profeffion; 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 necessary. 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, especially in cold weather, has long appeared to me a matter of very confiderable advantage.*

* See BELL, On Ulcers. Part ii. §. 2.—In very hot weather, as well as in particular cafes, a calico roller may be fubfituted.

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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) should begin as far below, and be carried as much above the affected part as the limb will allow of. To this end, it should 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, should 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 firicture ought to be lefs, to permit a free action of the muscles, and the turns therefore be somewhat more distant; in G4 which

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which manner it must be continued up to the knee: above this part it would be improper to carry it, though recommended by confiderable authority,* and that for most obvious reasons, 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 thefe directions may appear, experience will prove them to be otherwife-A very moderate share of knowledge of the first prin-

* Mr. ELSE, Medical Observ. and Ing. Vol. iv.

ciples

ciples 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) cannot fail to produce, or increafe pain, efpecially where flimulating applications are ufed. And that in all cafes, (though no pain or inflammation fhould follow) it must have a natural tendency to retard the cure, if not entirely to hinder it, both by diffurbing the tender granulations as they rife on the fore, and preventing that procefs 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

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 fuperior parts, in whatever way they are treated; but I am fatisfied from a variety of facts, will in many inftances heal fooner with exercife than without it. It is acknowledged, that after the operation for the hare-lip, 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 scarcely 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 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 queftion relative to ulcers on the legs; and if motion of the part affected is capable of preventing it, (where a proper bandage is conftantly worn)

worn) * it must either be fuch, and to a degree that would prevent, not the union, but the healing of the raw edges of the lip I have mentioned; and furely no common action of the lips will do this. Or fecondly, it must be effected from the exercise fo greatly increasing the discharge, as to prevent that disposition to dry up, which ought to take place in the extreme vessels of the fore, whereby it

* It may not be useles in this place, to make a few general obfervations on mufcular 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 mufcular action, there is always an accurtation of the moving fibre, and a general enlargement of the mufcle. 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-Fafcia, and annular ligaments, &c. prevent unequal contraction, and its manifest inconveniencies .- It is true, we don't find the mufcles 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 .- Thefe are precifely the points aimed at; and that bandage will answer these intentions, is very evident, both from reafon and experience.

+ See pages 80, 81.

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has

has been faid, the cicatrice is formed. And if the quantity of discharge 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 efpecially the most painful ones, either difcharge 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 restore 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 vigour of the limb. On this account, the

* L'ulcere fec, qui ne fuppure pas, ne peut pas fe deterger, or tout ulcere qui ne deterge pas, ne peut pas fe guèrir.

Traité des tumeurs et des Ulceres. Paris.

discharge

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 circumftances of the part be fuch as have been defcribed, the difcharge will gradually abate as the ulcer diminishes, and its furface will always dry up in a reafonable time. Such exercife of the part is not, indeed, neceffary to the healing of fores on the upper extremities ; but the difference in the lower ones. and particularly the inferiour 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 fupplied the natural deficiency arifing from their diftance from the heart, in the beft way it was poffible ; befides, therefore, that fhare of labour they have in common with other parts, it has not only impofed upon these (as was hinted before) the weight of the whole body, but has deftined them to be the inftruments of its conveyance from one place to another.

But on this fomething has already been faid, and I may have ftill further occafion to infift as I go on; fuffice it to hint here, how greatly pre-

prejudicial it must be to general health for any perfon, accuftomed to labour and exercife, to be confined for a length of time in an inactive ftate, and the greater part of it, in an almost horizontal pofition .- 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 vigour ?* Has it the most remote tendency to perfect the cure; I mean, to make fuch a cure as shall stand ?- 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 fuch exercife of the limb as shall afford the natural stimulus, if certain evils attendant upon that exercife can be obviated?

It is granted, however, that exercife may in the cafe of fome large fores, to a certain de-

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

This obfervation is univerfally allowed, and is remarkably evident in the vaft influence that great exercife of the extremities is obferved to have in watermen and porters; the former of whom have ufually large ftrong arms, and flender legs, and the latter thick mufcular legs, almost without exception, if they are in health.

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gree, retard the healing of ulcerated legs, for the fame reafon that very great motion might be hurtful to fores on other parts. But inftead of being otherwife injurious (by occafioning fluxion of noxious humours, and I know not what other evils faid to be peculiar to the lower extremities), it is really ufeful in every other refpect 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, 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

* How far the continuance of a roller, which I underftand a very refpectable hofpital furgeon advifes to his patients, may prevent a return of the complaint, I have no right to attempt to decide, fince I have never injoined reft, in any inftance, 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 firft healed.

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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 manifeft 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 fuch argument appears to manifest difadvantage, and may be thought to be little more than a *cir*-

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

† BELL, On Ulcers.—The following fpecimen will fhew how ftrict an adherence to reft, authors have required, " Il faut faire 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 renaisent, et brisent les premiers linéamens de la cicatrice." Traité des Tumeurs et des Ulceres.

1 Medical Observ. and Inquiries, Vol. ive

culus

culus in circulo; however, it is confonant to various maxims that were never difputed : for inftance, as a very nourifhing diet would prove hurtful, where proportionable exercife were neglected, and vice verfâ, hard labour without adequate nourifhment, but taken together, contribute to the health of the fubject; fo clearly has experience proved to me, the falutary effects of tight bandage and exercife united, in regard to the ulcers in queftion,

Notwithstanding what has been here and elfewhere advanced on this fubject, I have been fomewhat furprifed, fince the first appearance of this tract, to find that fo attentive and judicious a practitioner as Mr. BELL, should in the last edition of his treatife upon ulcers, fo ftrongly inculcate the neceffity both of lenient applications and reft, in the cure of ulcers on the lower extremities; without offering one argument in fupport of the latter, or attempting an anfwer 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 fucceeded in all of them; but that he finds no cures fo eafily or fpeedily obtained, nor any that prove fo permanent, as H thofe
those effected by mild dreffings and reft. Now, fuch fentiments, especially the latter, appear to me very extraordinary indeed; but being only affertions, I may, with the fricteft 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 further 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 -ufe of active applications 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 absolute reft. But if furgeons will make use only or chiefly of bland applications, which it is granted may fometimes more speedily 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

the cure of every ulcer of long ftanding,* though he confiders them merely as local affections.—As iffues are not likely, however, to do any harm, and are fometimes ufeful, it were needlefs to urge many arguments againft fo general a fentiment; neverthelefs, iffues being always troublefome, and to many people very difagreeable, it is but juffice to fay, that I rarely propofe them.

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 thefe 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 recourfe to purging, without which

* Page 230.

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

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the healing up of old, or large ulcers is never attempted. For thefe 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 conflitutions, than amongft ftrong plethoric fubjects of an inflammatory habit, and are in fuch circumflances more difficult to be cured.

But when a way is difcovered to prevent the ill-effects of exercife, and the defcent of humours, as it is 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

* See Introduction, p. 10-18.

being

being an extreme part of the body, in which the circulation is lefs vigourous, and the vires medicatrices naturæ, for thefe reafons, more languid and ineffectual.

If thefe things are allowed, many advantages must arife from fuch a diet* as hath a direct tendency to support the patient in full health, and to affist the powers of nature to create, and support a discharge of laudable pus, the constant forerunner of a cure in every curable ulcer.

THE laft article mentioned relates to ME-DICINES, 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 fupport an opinion, to bear down their opponents on every occafion, 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,

* Perhaps falted meats, and fpirits, are the chief things to be interdicted.

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therefore, feldom comes with proper teftimonials but from hospital practitioners, or must, at least, expect to stand 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 difeafe of the fystem. It is possible, I may be fomewhat fingular in these opinions; whilft 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 labour 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 prefence of fever, &c. will constantly call for the

the phyfician's affiftance, who will be at no lofs to purfue a rational intention. In fhort, whatever is obvioufly wrong in the habit is to be corrected; 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 obfervation; 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 class 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 difcharged from it is bad; or the ulcer is not difpofed 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

* CELSUS. Lib. wii. Chap. 3.

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the fungus, remove callous edges, and prove a tonic to the part. If thefe things fail, fuch medicines fhould be administered as will brace the fystem, or correct its manifest defects—further than this, I must fay again, I have neither known their use, nor that frequent want of them which others complain of.*

Not that troubling patients with ufelefs medicines, and the little unneceffary expence, of importance, indeed, to fome people, are the principal objections on this head; but the

* By a modern *French* writer on this fubject, we are advifed, before the healing up of old ulcers, to correct the vitiated blood, and to purify it from the foreign leven with which it is infected. To this end he gives us fix general indications.

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

great

great mifchief is, that in most cases, 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, some unknown complaint, or to cure a manifest dyfcracy, for which he is not likely to find an adequate remedy. But should the time come, when fome real alterative, or peculiar tonic shall be difcovered 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 fyftem, it has been granted, the affiftance 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 neighbourbood 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

take 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 their conftitution by hard drinking, or on the contrary, have been in want of almost the neceffaries of life. In fuch cafes, the bark as a tonic, (which is fometimes improved by the addition of fal martis) is of wonderful efficacy, and ought in many cafes, to be given in much larger dofes than it ufually 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 cuftom, been frequently adminiftered, and with feeming fuccefs. But it is often improper for labouring men, who are much out of doors, and for

for obvious reafons more efpecially in winter. However, where thefe objections do not equally take place, every furgeon of experience will judge for himfelf, what advantages he may reafonably expect from the ufe 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 should be disappointed, if we depend on this, or any other internal means; at least I have always found external applications much more effectual-Emetics, may fometimes be useful in 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 anfwer fome principal objections to the plan I have proposed, and explained what may be expected from it, with the manner in which the effect

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 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 furnish 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 claffes 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 difcrimination; and must therefore tend to perplex those whom they ought to instruct.

* See Introd. p. 5-8.

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Such diffinctions are taken chiefly from certain accidental appearances of the fore, and the nature of the discharge; but are most of them fo 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 difcharge ichor, or fanies, amounts to little more than that their furface is in an ill-conditioned state, and can make only an accidental, and no effential difference in the grand indications of cure: all fuch circumstances being mere fymptoms, requiring only a temporary attention, and not characteristic of a difference in fpecies.

The most easy and practical division I have been able to make, will be to confider them under two heads only, which are calculated to illustrate the preceding observations, and correfpond 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 abfcefs, or any internal complaint; and every very old ulcer of a moderate fize, efpecially in habits accustomed to them.

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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 thefe, it will be neceffary to make fuch enlargements and fubdivisions, 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. Thefe are inflammation and pain; for each of which it will be neceffary to 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 of white poppy heads, and afterwards a bread and milk poultice for a few days, may be applied

plied to advantage: but if fuch a cafe can arife as to require a much longer continuance of a poultice, it should be changed for one of the faturnine kind. This will furnish the fame moifture 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 state of inflammation, and particularly in the poor, who have long endured, and ftood much upon them in that ftate; whofe fkin is likewife often dry and left dirty, and its pores confequently obstructed. But as foon as the inflammation and foulnefs on the fkin are taken off, ftrong digeftives, with exercise and a roller, will produce a much fpeedier and better digeftion. +-This I am fo fatisfied of,

* See also BELL, On Ulcers.

+ WISEMAN gives a cafe very much in point, and obferves, that after confining a patient to the bed for a very bad ulcer, which 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. chap.* 9.

that

that I have no kind of hefitation in fpeaking peremptorily on the fubject.

I wifh to make one remark more on this head, which is, that when a bread and milk poultice is required, it fhould generally be applied on the naked fore,* whereby it fits eafier, and is much more ufeful, becoming the mildeft application that was ever contrived, if it be well made.† And I hope I fhall

* See FREKE's Art of Healing.

+ When I confider the importance of a good poultice to ulcers, where the ufe of them is called for, and the number of pupils who vifit 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 occasion 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 fhould make a better poultice by this means, or if a fingle patient be benefited by it, I fhall 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 thefe poultices cannot be boiled too long; but on the contrary, it is long boiling that fpoils them. They fhould be made of the crumb of moderately fale bread, which fhould be cleared from every thing the leaft hard, or lumpy, and after being grated, fhould be rubbed between the hands, till reduced, as near as poffible, to its first flate of flour. The milk should then be boiled, and the

fhall be pardoned if I add, it ought generally to be made, 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 ex-

the bread lightly fprinkled in with one hand, whilft it is kept ftirring with the other. The difficulty with which the fpoon is moved, will fhew 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 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, inftead 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.

pected

pected 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 laft, however, will be lefs 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, unlefs there be difeafe of the bone. The former, it will be the phyfician's province to difcover and remove; but if neither of thefe should be the cafe, 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 shall promote a discharge, and

* This may fometimes have one advantage of opium, as it hath no tendency to conflipate the bowels, and if it has any other virtues than that of an anodyne, as fome people have been of opinion, the patient will enjoy the advantage of them.

with

with the affiftance of firm bandage and exercife, shall cleanse or destroy the too fensible 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 myfelf obferved it only once, in any confiderable degree. This is an obfcure ædema, more commonly attending fmall fores, and occafioning very great pain about the little ulcers, or not unfrequently along the whole fpine of the tibia, efpecially in the morning; and is effectually cured by only applying the bandage a little tighter than ufual. It may be met 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 ædema should have often fallen in my way. The fingle inftance I met with, however, has borne fuch direct teftimony

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mony 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; whilf 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 secretory organs of the parts, which throw off such kind of sluids as cannot be changed

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 ftimulating applications, which are the moft fafe and rational means of promoting it, and will, in this cafe alfo, as certainly be followed by a ceffation of the pain.† And

* La feconde caufe (du defaut de fuppuration) est le defaut d'inflammation dans la playe. Traite des Ulceres, Sc.

† PAREY fpeaks exactly to this purpofe in the cure of ulcers, *lib. xii. cap.* 9. where after having directed cataplafms of folanum, cicuta, poppy 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 eft." 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.

herein

herein we go back as far as relates to ulcers on the legs, to the practice of the ancients,* whofe ointments, it has heen 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 manifeft indications before us, and the remedies are therefore ufually fimple and obvious—not always thought equally evident through the whole indications of cure.

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

† See BELL, On Ulcers; who has made feveral very ufeful obfervations on this head, though the *French* furgeons are full 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 neceffary, and too little, or an undue effort, does as certainly, though upon a different principle from Plethora, frustrate the falutary intentions of nature,

SYSTE-

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 laid 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 polition of the limb, and injoin abfolute reft. 'The whole procefs of cure is most accurately delineated, and fome appofite remedy prefcribed 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 exactnefs. 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.

* Compofiti ulceris ad curationem multæ funt indicationes propofitæ. PAREY.

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It is univerfally admitted, however, that except an ulcer becomes clean, it will not cicatrize, though practitioners are not fo well agreed, concerning the beft means of bringing it about. But we are always to know our proper place, art being in this, and in every other inflance, a mere hand-maid to nature, to lend affiftance in a manner 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 vigour of the conftitution, 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 nature accomplishes 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 evennefs of the

the newly formed cicatrice with the neighbouring parts. And every one muft have obferved, that the lofs of fubftance is more evident at fome months diftance from the time of cure,* than on the firft 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, they will they inforce the expediency of the means I have recommended.

THE Cure, it has been faid, is brought about by the general vigour of the fystem, and the

* This obfervation has been long made in the cafe of those foveolæ which remain after the finall-pox.

† Perhaps the very beft of thefe is the fuppurative poultice fo much recommended by Mr. FREKE, 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 difcarded from hospital practice. His intention, however, was perfectly rational, which was, "to fweat out the difease :" an idea I have always had in view, in opposition to that of drying up diftempered 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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action of the parts, together with an abforption of those contiguous to the ulcer, the most apposite to which indications, are good diet, exercife 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 WISEMAN, 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 fa-

* Notwithfianding all fciences have been improved by reducing them to a flate of fimplicity, yet, in an attempt to purify them, artifis 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-humour 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.

tisfied

tisfied 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-stocking can pleafantly admit, or indeed can effect, and had been yet bolder in the use of ftimulating applications, he would not have had reafon to complain, that healing fome kind of ulcers is 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 obfervations may be made on Dr. TURNER, who was in many refpects 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 lefs fond of abstinence and reft, would have fet an example, which after-practitioners

titioners 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, nor 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 digeftive is rendered deterfive in the degree it may be thought fit, by the addition of a little calomel, corrofive fublimate, the white, or red precipitate, or by a fmall portion of verdigreafe; or we have a very excellent one ready made to our hands, the ung. hydrarg. nitrati: but, however uncommon the practice, it is fometimes better to ufe the red precipitate alone in the first stage of the cure, than to mix it with the digestive; 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 itself, in adapting his dressings to the

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 ufe of, fuch as washing with a strong decoction of hemlock, dreffing the ulcer with the gastric juice, and other light ftimulants, or aftringents, 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 feated any where elfe; unlefs, perhaps, those on the head are excepted, which, I think, furnish pus more perfectly

fectly 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, recourse must 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 opportunity to exert herfelf; and as Hoffman fays on this very occasion, " ex voto fuccedit confolidatio."

* "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.

Perhaps,

Perhaps, one of the best applications of this kind, is the merc. cor. ruber, very finely levigated; this is peculiarly ufeful in fome fmall and obftinate ulcers prefently to be noticed, nor will it be immediately fufpected, with what freedom, and frequency this 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, destroys the unfound, stimulates 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 refpect to a great number of cafes, for all this is a very certain consequence of a proper use of it, where a tight bandage is applied, and adequate exercife 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 ill-conditioned furface, the ulcer must be filled* with it, the furgeon taking up a large pinch of it, and plugging up the fore.

It

* While I was engaged in drawing up this little tract, I chanced to meet with more authority for the above practice than

It has been faid, that the above practice is particularly ufeful in many fmall ulcers; but even in large fores, fomething of the fame kind will be found neceffary. The foul furface muft be removed, and the fore brought to the ftate of a frefh wound, which can be done only by the diftempered parts being melted down (as it is ufually faid) by powerful digeftives, or deftroyed by corrofives; and till this be done, fome obftacle or other will continually arife,* but this once effected, you remove the greateft hinderance to the cure. And it may be more eafily done than is gene-

than I expected, for looking over WISEMAN, I found him making use of the very expression; to which practice, I am fatisfied, he, as well as Dr. TURNER, owed much of their fuccess. The former tells us he performed cures on ulcers of 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 ii. Chap. 9.

* Ulceribus haud diligenter deterfis, hyperfarcofis fupervenire folet. PAREY, *De Ulceribus.*—See alfo RHAZES, *Lib. Divis. cap.* 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 ceafing to fhoot, are not followed by a difpofition to form a cicatrice; or if the ulcer heals, it foon breaks out again."

rally

rally imagined, and though the fucceeding furface fhould put on the fame unpleafant appearance, after the firft, or even fecond 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 further is required, than to wait till nature is able to accomplifh her proper work. The want of this ability, or occafion to exert herfelf, is the grand impediment to the cure, but this reftored once and again, will effect every thing that is required.*

* From the very judicious obfervations on the Malvernwaters, with cafes annexed, publifhed by Dr. WALL, it fhould appear, that the good effects produced by them on ulcers of the legs, have arifen from their volatile fpirit. 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 fpeaks of the coldnefs, and aftringency of the Malvern-waters externally applied, but this is only an opinion he has taken up from fome cafes, in which they had not proved beneficial; for he obferves, they often occafion fo great heat in the part as to induce fuppuration in cold tumours, and that in almost every cafe where they have been ufeful, they have raifed more or lefs inflammation, and have often occafioned very confiderable pain for fome days.

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Befides

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. S. SHARP, who both as a writer and practitioner, I should be more inclined to envy than to cenfure. Neverthelefs, experience is the beft teftimony, 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 fpecific power of precipitate, in different kinds of ulcers, where every common application had been ufed to no purpofe, 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 difposition to heal. The furface

furface of fuch fores has fometimes been glaffy, and the edges fharp and angular as if newly divided with a knife, without the leaft difpofition 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 stands no longer on my authority; the accounts I have been favoured with from different practitioners, both here and on the Continent, fince the first edition of this treatife, bear a direct testimony to the advantages the Public has derived from the hints I then ventured to throw out. Patients have alfo been treated in this way in different hofpitals, where the good appearance of large ulcers, repeatedly covered with precipitate,

* Additional Preface to the former Edition.

K 2

has

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 to judge how long he may continue the bold ufe 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 lefs fuccefs 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 refpect; it being impoffible for the furgeon, in every cafe, to lay down rules fufficiently precife for the pupils to follow, which conftrains him to fubmit things of lefs moment to the temporary difcretion of the dreffers.

HAVING fo fully stated, and endeavoured to defend the principles and practice laid down, it remains only to collect them into one point of view; and then to select a few of the varieties

eties of ulcers to be met with in this clafs, with the treatment of each, as illustrative of the feveral indications and remedies propofed. And to this end, it feems only neceffary that the reader should be reminded of what has all along been observed of the peculiar circumftances 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 illdifpositions of the parts, and both enable them, and the fystem at large, to make fuch well-directed and falutary exertions as shall place ulcers, fo feated, in circumstances as fimilar as may be to those on other parts of the body, has been the leading idea throughout this work. How far this reafoning may have been just, or the means above pointed out may appear rational and adequate, the reader himfelf is now called upon to decide; whilft the author, for his part, has the fatisfaction of thinking, that fuccefs has, at leaft, juftified his attempt, and given fome fanction to the practice he ventures to recommend,

Амондят the few inftances to be felected from particular cafes, is a fmall ulcer, fre-К 3 quently
quently hinted at, and for which, after every other mean has failed, the precipitate, or other efcharotic 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 exquisitely 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 compression below the feat of the fore. It was in these cafes more efpecially, that Wiseman preferred a laced-flocking, becaufe (as he tells us) he " could not with a roller make a fuitable compreffion fo near the ankle, without caufing a fwelling on the foot." But this is certainly a mistake, 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 make a tolerable compreffion below the ulcer itfelf: 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 skin, accompanied with a thin

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 skin is removed. This I once thought was relieved by bathing the parts in Nevilbolt water, as lately recommended for this purpofe, 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 alum; or the ung. deficcativ. rubrum, or in more obstinate cases, a compress of linen may be wetted in a folution of facch. faturn. and vitr. alb. with an ounce or two of camphorated fpirit, in a pint of fpring water; which, notwithftanding the tumour, and heated appearance of the part, I never found difagree.* If the fore fhould not foon change its complexion,

* Thefe affections of the fkin, vulgarly called fcorbutic, have ufually no one fymptom of that difmal complaint, and being merely local, fhould always be treated as a difeafe of the fkin; for true fcorbutic ulcers are of a very different K 4 kind,

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

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 exprefion, which I doubt not was the refult of experience, " the beft anodyne had been to have filled it with precipitate." Book ii. ch. 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 fanè non purum, huic a pharmaco corrofo contigit, ut opifthotonos moretetur."

Ehidem. Lib. v.

upon

upon every man's experience to demonstrate 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 troublefome to heal, by ordinary means, as an old ulcer near the ankle, and there are fcarce any of the ancient 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 standing, breaking out again as confantly as they were healed, and inexpreffibly painful. But if not of the phagedenic kind (of which I shall treat in another place) are perfectly cured, in a few weeks, by taking much exercife, and dreffing with the warmest digestives, 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 shall be removed by bleeding, and a few days application of FREKE's fuppurative poultice;*

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

which

which it will be fometimes proper to begin with, if the ulcer is deep.

Since the first edition, I have had an inflance of the efficacy of the precipitate, in a fore on my own ankle occasioned 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 should have done fooner, had it not been fo recent a fore. The fmall fize, and drynefs of the ulcer, induced 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 use 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 digestives; 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 use of the precipitate.

There

There is another fpecies of fmall ulcers, accounted difficult to heal, that is likewife, improperly, termed fcorbutic, and is exceedingly painful, though without any tumour of the limb; and fometimes attacks young and robust people. These fores are dispersed 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 digeftive, and apply a very tight bandage, which immediately removes the pain; and I have known fuch ulcers, though of long ftanding, perfectly healed 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

There are other fmall 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 observe, that common treacle with fresh 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 should be continued as long as the fores remain in a very irritable state. I shall just remark, that the like dreffings agree equally well with many foul ulcers, that are irritated with most other dreffings.

I have alfo 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 lofe their morbid fenfibility; but if they fhould not, the furface muft be deftroyed by precipitate, as formerly

merly directed, and trial made again of the bark, if it should feem to be necessary.

In ulcers of long ftanding, and where the conftitution is thought to be concerned, it fometimes happens that befides a large fore, the leg shall be exceedingly swelled, with hard tumours, 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 difperse 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'dfilk; which, by exercife, will daily produce a confiderable perspiration, and without the least affistance from medicine, will bring down the hardnefs 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 thould not have done justice to my fubject, if I had not made particular mention of it. For the like purpofe, the leg may be well rubbed with volatile liniment and about an eighth part of mercurial ointment; but I think, I have never

never found occafion to have recourfe to any embrocation for this fpecies 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 ufeful medicines, and fome particular cafes in this clafs of ulcers, I fhall clofe it with fome obfervations on healing; an article of as much importance, as any that has been noticed.

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,†)

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

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

upon

upon this plan, do as much injury, by relaxing the parts, as do very drying applications, when ufed to haften the production of cicatrice.

If this latter be attempted too foon, and especially if early recourse be had to drying applications, the furgeon will foon perceive his miftake. The ulcer being only partially digested, like those treated upon the lenient plan, when apparently about to heal up, will burft out in one form or other. This will efpecially follow in those termed constitutional fores, attended with difeafed fkin, and of very long standing. Here small ulcers will be formed in the diffempered parts of the fkin, which in a while becomes pappy, and denotes the parts underneath to be unfound. 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 notwithftanding, under the advantage of good rolling and exercife, if the difcharge be kept up; for the exercife, inflead of protracting the cure, I am fatisfied, tends

tends in fuch cafes, directly to enfure it; and I accordingly always defire it may be increafed. All that can be neceffary, is to lay the fmall 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 fpeedily as could be wifhed.

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 moft active remedies have been ufed, in bad cafes, for two or three weeks, the ftimulus from exercife will fufficiently maintain it; and it is a good maxim to proceed gradually to that change between a copious difcharge, and its total fuppreffion, which fhould be always kept in view through the whole of the cure.

As foon then as the fore, however large, puts on a perfectly healthy appearance, this change

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 fuppofed 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 still very confiderable. An attempt to suppress this is always improper, and if it fucceeds, will, indeed, divert the discharge some other way for a time, but without any advantage 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, recourfe must be had again to escharotics, L which

which if the bone be not difeafed, will invigorate the parts, and foon improve the difcharge; or if ftronger be used, a thick flough will be made, and the furface, the moment that is thrown off, will be clean, and will put on a promifing appearance again.

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 fpread a margin of cerate on the fame dreffing, that the whole may be covered with one piece of lint, by which means the difcharge finds a readier way to run off; a matter of the greatest importance in fuch ulcers as are eafily offended. The pledgit, for this reafon, should likewife extend confiderably beyond the furface of the fore, efpecially in fmall ulcers, or the tightnefs of the bandage will prevent the matter from efcaping, and thereby occasion a continual

tinual irritation, which will difpofe the ulcer to fpread.* But though cerate is allowed of with

* The doctrine here inculcated, though founded upon repeated facts, I find firongly controverted by Mr. Hunter. "When treating of pus, in my lectures" (fays that teacher) I obferved, that I was inclined to believe that no matter, of whatever kind, can produce any effect 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 wafning away matter, under the idea of keeping the parts clean is in every cafe abfurd." See his Treatife on the Venereal Difeafe, page 36, Note.

It is fomewhat unpleafant to have to combat fentiments with fo refpectable an opponent, whofe 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 fcrupulous attention, and rude manner of always wiping off all the difcharge that may be furnifhed by ulcers, I am equally perfuaded, that much matter confined upon them will often occasion their fpreading .- 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 ufeful; but we may be too nice in our inquiries, and a turn for theory, and phyfiological difquifitions may poffibly be carried too far; and cer-L 2 tainly

with the view I have mentioned, the ufe of drying applications will, by no means, haften the cure in this clafs of ulcers, which, perhaps, contains much the greateft number.

It may then be laid down as a general maxim, that they fhould rather be fuffered, than invited to fkin over; and to fpeak plainly,

tainly are fo, when not only unfupported, but contradicted by facts; as appears to be the cafe in the prefent inftance. For though it is very probable, that the fyftem may not he 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 dimensions of the ulcer when not otherwife in a fpreading or fphacelating 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 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 increafed, under the former, but will appear fresh, healthy and granulating, by means of the acrid difcharge being more abforbed by the latter.

I would,

I would, especially in those of long standing, rather irritate than coax them, for I know they will heal in the end. And I wish to enforce this idea very ftrongly, as of the greateft importance,* and to recommend, in all fufpicious cafes, and efpecially where ulcers have been difpofed 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 difposed entirely to suppress the discharge, the furgeon, as hath been fhewn, by attempting to heal up the fore, will have great part of his work to do over again. For this reafon, dry lint, blue vitriol, t or hard comprefs,

* Vide pages 36, 37, of the Introduction.

† 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. chap. 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 ftand well, but there is no adequate rule to L 3 determine prefs,* fhould very rarely be had recourfe to; though I know they have fucceeded for a prefent cure in feveral inftances. 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 ftate;) 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 firft gradually relieved, and to fpeak a popular language, the humours are to run off, and the change from a long accuftomed, or copious drain, to be cautioufly effected; but which gradually abating as the wound diminifhes in its fize, nature, however averfe to fudden transitions, will when left to herfelf, in a reafonable time find fome other vent. This remark, and what has been faid

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 fpeaks of covering the ulcer with a sheet of lead; fo also a late French author; though, indeed, the practice is very ancient.

above,

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 should find fome other outlet than the ulcer, neverthelefs, all the above reafoning, 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 least necessary. Every furgeon knows very well, that the great difficulty refpecting the cure of ulcers, and more efpecially those on the lower extremities, is to bring them into a good and healing flate, 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

* Having already offered an opinion on that fubject, (vide the *Introduction*, p. 40, 41.) when fpeaking of the good or bad effects ulcers have on the conflictution, which, it was faid, were probably rather owing to initation than the difcharge; it was more natural to express myself here in the common language of writers upon this fubject.

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a few days use of fome lenient digeftive, want only to be kept clean, or at the moft, to have their luxuriant granulations kept within bounds, which are merely a confequence of ftrong digeftive powers, and of nature overdoing her part. But in the cafes before us, there is little 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, defensive plaster, or fometimes one more drying, (as formerly recommended, if there are heats on the fkin,) which should be spread 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 digefted,

gested, and skinned over instead of being cleanfed and incarned; * 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 digested 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 obferved, will

* HIPPOCRATES fpeaking of recent ulcers, hints at this expeditious method of healing under particular circumflances, but how inapplicable to the cafes before us, reafon and experience will determine—" aut fi quis avertat (viz. fuppurationem) ut omnino non fuppurentur, præterquam neceffario, eoque pauciffimo pure, et ficca funt quam maxime, ex medicamento non molefto,"—though in another place he adds, " ulcera non purgata, non committi folent etiamfi adducuntur, neque fua fponte coeunt." De Ulceriba. § v.—No better proof however, need be fought for, that fuch is the general mode of treating ulcers of the legs, than the candid obfervation of the anonymous writer mentioned in the Introduction, page 39. Note.

often

often be accomplifhed 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 ufed.

One caution more, however, may be neceffary, in regard to a circumftance 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, efpecially 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 fcab, though it were eafy to advife a fpecious theory; but the fact is a ftanding one, that 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

worfe fores than before. Such fcabs 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 must 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, efpecially in ulcers of long ftanding, or fuch as have difcharged very copioufly, and in patients who have been accuftomed to fore legs. In order to prevent fuch kind of healing, the new edges should 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 should even be deftroyed by lunar cauftic, and the deterfive powers of the dreffings be increafed. This may be done by the unguent. hydrarg. nitrat. or the cerat. epulot. with precipitate, by which ulcers

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ulcers may be healed very kindly, and on the above account, I have obferved this fort of dreffings are, in many cafes, preferable to a weakened digeftive, in the laft ftage of the cure.

Only large fores will afford any difficulty; whatever pain, fwelling, or humours, fo called, attend smaller ulcers (of this class), they will occafion very little trouble, after the furgeon has had a little experience of this method of treating them. The copious difcharge, 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 further difficulties occur, if the bottom be found. If therefore, after this period, a large ulcer is found indifpofed to heal up, (though there be no other reafon for fufpecting mifchief at the bottom) and the usual stimulants are found ineffectual, the fore after the use of them still continuing at a ftand; fomething further is neceffary: the powers of nature being, in fome habits of body, often infufficient to cover a large furface with new fkin, without other affistance, and a very different ftimulus, which will prefently be defcribed.*

* See pages 178, 181.

THIS

THIS brings me to the Second Clafs of ulcers, which in feveral refpects, requires a treatment different from the preceding. It was a juft obfervation of *Ambrofe Parey*, " neceffe quoque eft varia adeffe medicamenta, viribus pariter et virium gradibus diftincta;" for fays he, " nihil mirum fit, fi fuo fæpe excidant fine, qui eodem medicamento, omnia maligna ulcera curant, et fanare fe poffe putant."*

Under this head then, I fhall treat that fpecies of ulcer called eryfipelatous,† or herpes exedens, occupying merely the furfaces of parts, which is always glaffy, and in its firft ftage, eafily offended by every unctuous application; alfo many fmall ulcers, attended with an eryfipelatous affection of the fkin, furnifhing a copious, and almost caustic difcharge; 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 ftanding, with the like pale, and loofe furface, the

* Cap. 9. Lib. xii. † Introduct. p. 6.

confequence

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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 the 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.*

Thefe things premifed, the cure of every ulcer is to be undertaken with the fame intentions; powerful fuppuratives, digeflives, and deterfive applications are to be ufed, and we are to proceed to efcharotics as occafion may require. But when active remedies under every form are found to difagree, after a fore has been properly digefted, and has put on a tolerable appearance, it is to be ranked in the fecond clafs, however fmall it may be; and efpecially that ulcer, the moft obftinate of any, defcribed under various names, † and ufually

* To incarn before we mundify, or deterge before we digeft, is building without a foundation, or to lay fuch foundation on the houfe-top. Dr. TURNER.

† "Ελ20; Φαγεδαινικον, or Noµn of the Greeks.-Ulcus depafcens, rodens, or ferpens; ulcus ambulativum; ulcus putridum, et phagedænicum.-L'ulcere putride.

known

known amongft us by that of putrid or phagedenic—I fhall begin with the eryfipelatous.

I HAVE adopted this term, for the want of a better, to describe an angry, superficial 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, efpecially if the furrounding fkin is affected, rendering the limb intolerably painful; and when the dreffings are removed, frequently emits a fteam like boiling water. I have known poultices and fomentations used for a long time to no purpofe; the ulcer either not healing at all, or breaking out in fresh places almost immediately, and the pain still increafing. Purges likewife are here of no ufe; as to medicines, opium and bark feem of the greateft avail: the pain must 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.

Having,

Having, in bad cafes, made use of a mild suppurative poultice for a short time, to cleanse the skin, and empty the little inflamed and obstructed 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 awhile, 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 aftrin-

* Page 135.

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gent folution, or ointment, I fhall 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 thofe fmall ulcers attended with fuch an affection of the fkin, as will caufe a fteam to rife from it like boiling water, which, after applying a poultice a few days, I am not afraid of fuppreffing by thefe 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. hydrarg. mit. and at other times be washed with the drying folution till the fcales fall off of themselves, or are very easily separated; at which time the skin will be found, and perfectly smooth underneath. In all such cases, a piece of oil'dfilk, should, now and then, be applied under the roller, about the time the fcabs begin to loosen, though some of the fores should not yet be healed up; which will hasten the feparation of the fcales, and take off the stiffnes

* See pages, 178, 181.

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of the limb. This fhould likewife be worn for a fhort time after the cure is completed, which it will contribute greatly to the continuance of, but must occasionally be laid aside, if it induces too great moisture on the skin; and the stannel roller be continued.

There is a fimilar, but less violent affection of the skin, attending not only this, but some ulcers of the former class, which may be treated in a manner that may appear ftrange on the first mention of it, but is perfectly fafe. This is lightly dufting the fretted parts with precipitate very finely levigated, which fo far from increasing the discharge, 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 first good effects 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

be made, it will always prove lefs ill-conditioned than thofe 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 thefe I pafs on to the phagedenic ulcer; in treating on which, perhaps every thing will be faid, that can be neceffary for any other large and troublefome fore, claffed under this general division.

This ulcer is always attended with an obflinate callus on the edges, and on fome parts of its furface; is often flreaked with red lines, and is foul, glaffy, and fmooth, or refembles a newly 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,

* See FREKE'S Art of Healing. See also PAREY from GALEN, " nam diuturnior, et copiosior ficcantium, et de-M 2 " tergentium,

deed, it will fometimes do under any treatment) the acrid matter either diffecting its way between the mufcles, 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 difpofed, from their laxity, to bleed upon the flighteft touch. This ulcer generally takes place in the very pooreft people, whofe blood is broken down by hard labour, or intemperance; is very difficult to cure, and when very large often baffles every attempt of the beft hofpital furgeons.

There are, however, more ways than one of fubduing many of thefe obftinate fores, and to this, the free exhibition of the bark will greatly contribute. The efficacy of this medicine may frequently be greatly increafed by being joined with aromatics, or in women whofe menfes are obftructed, with chalybeates; • which efpecially in that form prefcribed by

tergentium ufus, ulcera excavant indies; quare (fays he)
prudens videbit medicus, quando à valentioribus detergentibus, et corrodentibus ad mitiora fit digrediendum."
Cap. 9. Lib. xii.

the late Dr. GRIFFITHS, is, perhaps, the beft 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 adminiftered without it,*) a fomentation ufed for a few days, and the fuppurative cataplafm,† fupported lightly by a flannel roller, about a week longer, never fail to leffen the most troublefome fymptoms, and fo far to fubdue them, as to render this ulcer more tractable under ordinary means. That kind of dreffing, befides every other advantage, has that of abforbing, and therefore, fheathing the corrofive, and caustic difcharge, increased by most other dreffings, to the great aggravation of the fore.

* The different intention with which a common bread and milk poultice, and that now recommended, is made ufe of, is fuch, that although the former is feldom of much fervice, unlefs it be preferved warm, by the patient being confined to his bed, the latter, from its potential warmth, will anfwer tolerably well when lightly fupported by a flannel roller, though the patient be fuffered to walk; which he may do, not only about the houfe, but to the furgeon's to be dreffed, or examined, as I have repeatedly proved.

+ See page 137.

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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 best application, in this flate, is Goulard's cerate and bole just now mentioned.* By 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 digeftive, or by dreffing with the unguent. hydrarg. nitrat. If the ulcer will bear thefe, a very few days will produce a wonderful change, healthy granulations will shoot, the remaining callosities will difappear, (which may be haftened by repeated fcarifications) the hollow parts will fill

* Befides experience, fuch ointments have the fanction of all the old writers from the time of *Galen*, who confantly advife fome preparation of lead with the abforbent earths, or other powder, for this malignant and eating ulcer.

up, and, probably, no further difficulties will arife. And here, I muft return to the caution, *feftina lente*, which can fcarcely be too often repeated with regard to ulcers on the lower extremities. But whenever gentle efcharotics, and powerful digeftives are found to difagree, recourfe muft 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 interpofing 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 first 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 the effects of his fuppurative poultice, but it will certainly prove infufficient when there are large fungi, pr of very long standing. The difease often M 4 runs

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, because 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 a 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 prefling 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 digeflives and bandage (which the fofter fungus generally will, as the bottom of the fore is lefs frequently unfound,) it will be fufficient, in most cases, to make one deep incifion to its bottom, after which its fides will frequently wafte away by digeftives and bandage: but should this prove infufficient, efcharotics fhould be fprinkled between the lips,

lips, and be occafionally repeated, till the fungus shall subfide. This effected, proper digestives should be continued, by which the discharge will be kept up, and every thing Mr. FREKE expected from his suppurative poultice will be happily accomplished, without the baneful effects of rest 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; fmall ones, of whatever duration, and whatever may be the age and conflitution of the patient, as far as I have feen, are healed by the above means, with eafe, expedition and fafety, after having withftood a variety of others under a tedious confinement. But the very large phagedenic ulcer, which is eafily put out of humour, and difpofed to fpread on every little occafion, is that which will prove the fkill, and fometimes 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
of this kind,* which falling to the fhare only of the pooreft people, are feldom feen but in large hofpitals, which I have therefore occafionally vifited, purpofely to make obfervations upon ulcers on the legs, by comparing fome of the worft cafes with thofe I have been concerned for. The poverty, and evil cuftom of thefe patients, indeed, greatly aggravate the complaint, and though the plan recommended be ever fo well adapted to the difeafe, want of compliance on their part may render it abortive; and it is poffible, there may be

* In one of the Medical Journals, anno 1785, we have a particular account, by Leonard Gilleffie, of the wonderful efficacy of lemon-juice, as a dreffing for the fcorbutic, or putrid ulcer amongft fea-men; 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 circumftance of great importance, as will prefeptly be noticed. At any rate, however, defirous as I am of throwing every poffible 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.

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fome cafes that will yield to no treatment whatever.

If very active applications are ufed, in the form of an ointment, these are often most advantageoufly applied to the large, and irritable fore, upon a thin piece of fponge; by which means very deterfive ointments will agree very well for the fhort time they are neceffary, when they would otherwife eat the 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 difcharge, whilft 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 indifcriminately difcarded; though it is in many cafes, one of the fitteft means of conveying appofite 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 plcer, and always a large one, that diflikes almoft

almost every thing in an uncluous form, at leaft will not be healed by fuch applications, till brought into a different state; that is, till its furface is braced .- There is here, I apprehend, no virulent humour, as is ufually fufpected, no virus that wants to be discharged at the fore, nor an irritans aliquid which nature cannot otherwife get rid of. Facts demonfrate 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 circumstances, and no fuch dreadful evils have enfued; but we have not known their art, and have contented ourfelves with fuppofing it to be unfafe, and difputing the propriety of a cure we have not been able to effect !--Hic labor, boc 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 state of the parts. That this has been frequently

quently the great obffacle to their cure, it were eafy to prove by a variety of obfervations taken from healing fores, and from fuch as having promifed well for a while, and then looking pale for a few days, have run into a gangrene; or at leaft have continued at a ftand—but I am fatisfied, every experienced furgeon is before hand with me, and is inclined, at leaft, to fuppofe it probable, that the hint may be juft.

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 digefted, and deterged; efcharotics are to be applied if found neceffary, and the fore to be treated as directed in the former part of this work, as long as nature is disposed to be active; but the moment fhe flags, or cannot be rouzed to a falutary exertion, by ftimulating applications and exercife, (or whenever fuch 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 difpofed to contract; the certain confequence of which will be a fresh, and healthy appearance of the ulcer; a pretty fure fign we have not miftaken

taken the cafe, and that the means we are using cannot be wrong.

But if this be attempted too foon, the plan is perfectly irrational, and the cure will not be accomplished, 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. litharg. acet. c. dry lint, and covering the furface with lead; which I may venture to fay, would, at leaft, be used with more fafety and fuccefs at a later period, when fores are well cleanfed, and nature flags under fruitlefs efforts to cover a large furface fhe cannot firft fufficiently 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 fkin. Surgeons are always careful to preferve a great deal of fkin when they take off any of the larger limbs, or a tumour 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 a half crown-piece, or even a fhilling :

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 this refpect, approach the neareft to the ulcers in queftion, of which the old fkin can be brought over only a fmall part of the furface, and the reft is covered entirely by new. In all fuch cafes, the aftringent lotion already hinted at will wonderfully affift the cure, by enabling nature to contract the furface, and leffen the dimenfions 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 necessary; but being gradually weakened, the last stage should be effected, if possible, by ordinary means, and

* In fuch inftances, though a patient be ever fo healthy, we are apt to fay, that the conftitution long accuftomed 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 juft now mentioned.

with the cautions laid down in the foregoing pages.

The folution may frequently 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 clofe to the furface) its edges, (in very bad cafes) being first fpread with any mild cerate, to prevent them from adhering too tightly to the skin, and thereby confining the difcharge; and fhould 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 advantageoufly applied, for a fhort time, on a thin piece of fponge; but as the fore contracts, and becomes drier, 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 fhould 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

ner 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 first edition appeared. But if none of these difficulties appear upon leaving off the dreffing with sponge, 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 obstinate cafes, the cerate with crocus martis, or Goulard's pomatum and bole, be applied to its furface. To this, a little precipitate, or hydrarg. muriatus, may fometimes be added to advantage, if an ulcer has hitherto been in a very irritable flate, 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,

* See page 181. N

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are of a nafty greenish hue, exceedingly foul and indigested, and fo painful that they cannot endure the tedious process of ordinary deterfives, but as hath been obferved, 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 ung. hydrarg. nitr. is one of the most powerful, or an ounce of ung. refinæ flavæ with a fcruple of the hydrargyrus muriatus, 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, generally preferable; this I have called a de-

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

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terfive lotion, to diffinguish it from that I formerly mentioned, and confifts of a mild folution of the fal martis, with a very fmall portion of hydrargyrus muriatus; a thick piece of crumb of new bread well foaked in this folution, and bound on the fore at going to bed, will often cleanfe it in one night, and produce a discharge of as laudable pus as the furgeon can wifh 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 should the ulcer spread 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 pleafant appearance, lightly granulated, but without a difposition 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.

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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 ftrawberry appearance, but without leaving that drynefs upon it, which common aftringents, and particularly alum, always induce. And it may be neceffary here to obferve, that though applications merely aftringent or 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 likewife deterfive, that may frequently be ufed with advantage and fafety. It was not, however, without long attention to the fubject, and numberless attempts, that a fafe and fuitable preparation has been difcovered; fuch an one, as will not only brace, but cleanfe the fore; and preferve a pleafant appearance of its furface, whilft it disposes it to heal; fuch an one, as according to the ftrength it is made of, will abate, or preferve the difcharge, will ftimulate the rifing granulations, and urge nature to exert herfelf, or will more powerfully corrugate its extreme veffels, and difpofing them to contract, prepare them to cicatrize at the edges of the fore.

Such,

Such, it is thought, is the folution frequently hinted at, and that it will often anfwer all the purpofes required in many obftinate 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, nor 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 strength, to the circumstances of the cafe, and will not attempt to dry up old ulcers in the mode of empirics; fome of whom are not unacquainted with it : for if made of an improper ftrength, it becomes a very different application, and will alone induce a fkin on the furface of many ulcers that are yet in a very undigested state, and unfit to be healed-but fitnefs and fafety are not always

* A piece the fize of a *French walnut* diffolved in a quart of water, will be of a moderate firength.

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the objects of that clafs of practitioners, and to whom therefore a little knowledge is a very dangerous thing.

Some exceptions will offer to this general plan of cure; and first, in regard to a change of the dreffings; which in obftinate cafes, and especially in large, old ulcers, is oftentimes neceffary whenever they ceafe to heal, or to look Such a change is also peculiarly proper well. in regard to ftimulating applications; which it is not only neceffary fhould be made ftronger, from time to time, as the ulcer is found to bear them, but it is often neceffary to vary the kind of stimulas, according to the nature of the ulcer, and varying appearance of its furface. Another exception to the general plan, will relate alfo chiefly to very large, and old ulcers, and as far as I have known, only in very old fubjects. In fuch cafes, when an ulcer has been very confiderably diminished in fize, and fometimes when just on the point of healing, it will continue for days, and fometimes for weeks at a fland, but without looking ill. It is prefumed, therefore, that the bottom is found, but the powers of nature fail as well as the means above mentioned. In a few fuch cafes, if fprinkling the ulcer with

with fine powder of myrrhe, bark, rhubarb, or ipecacuanha, fhall not have an immediate good effect, merely drying applications, fuch as finely pounded prepared chalk, or lime, have in a few inftances been had recourfe to, and have healed up the ulcer with fafety.

I fubjoin only a few other means that have at times had a good effect, when the general remedies have feemed to fail, or the ulcer kept long at a ftand. Such are a poultice made of young ftinging nettles; also the following:

R. Pulv. femin. lini, Sacchari rubri āā žiij Pulv. Zingiberis, zj Aquæ puræ O. S. pro

Aquæ puræ Q. S. pro cataplas. quatuor.

But for many irritable fores, which when nearly healed up, have repeatedly fpread again; become very foul, and fecreted a copious, thin, and fetid difcharge; the unguent. hydrargyri nitrati mixed with an equal quantity of cerat. fperm. ceti, or other foft ointment, is often found an immediate remedy.

The common fermenting poultice, made of yeaft and flour, is likewife fometimes very ufeful, and has cured a very old ulcer of the N 4 eryfi-

eryfipelatous kind, after various applications had failed.*

THUS far fome experience may be faid to have gone, but how much further 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 editions of this work; and I have therefore further ground for hoping that the treatment laid down in thefe 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

* The following is recommended for painful and foul ulcers, by Mr. Hammie Jun. affifiant furgeon to the royal hofpital at Plymouth, and published in Duncan's Annals of Medicine, 1798.

An handful of hops boiled in a quart of water, to a firong decoction, and made into the proper confiftence of a poultice by the addition of oat-meal, with lard, or oil. After washing the fore with the decoction, the poultice is to be applied bare to the ulcer.

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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) exercife will have a very confiderable advantage through the reft of the cure ; for as a degree of inflammation is the procefs, 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 process may go on better, and if it fucceed, far more fafely, with moderate exercife than by abfolute 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 fome very bad cafes ; though this is certainly fometimes prevented by the clofenefs of the place, or the patient accidentally taking a fever.* If these risks could be avoided by

* Befides thefe difadvantages, there is another very common in hofpitals; which is the cuftom of taking off the dreffings from fore legs, fometimes an hour or more before they are

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by the patient being, with fafety, permitted to take as much exercife 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 leaft, the attempt, it is hoped, might be juftified.

But after all that can be faid, the neceffity of amputation, in fome cafes, cannot be difputed; but I am fully perfuaded, there is good reafon to hope fuch will not often occur, after this method shall have been for fome time adopted. For patients will then have been informed, that fore legs are cured without confinement from their families or labour, and that fo cured, they will not be afterwards liable to return, but from the fame caufes that produced them at first. These confiderations will, probably, encourage most patients to feek advice very foon, and though fome of the poorer amongst them should procrastinate longer, many of these may, neverthelefs, get effectual help when they apply; which will be likely, at leaft, to

are dreffed up again. The bad effects of this practice muft be evident to every man, but will be more fo, by comparifon, upon leaving it off.

prevent

prevent the difmal 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 manifefting the exiftence of internal difeafes, with morbid affection of fome of the vifcera, where it has always been prefumed an external drain muft prove ferviceable, it may become a matter of doubt, whether their cure may be fafely attempted,* or the fubflitution of iffues be a fuf-

* Ulcers attending the leg in old people, ought to be looked upon as critical, and therefore fhould not be healed. LE DRAN: fo HEISTER, and many other eminent writers .- The opinion of AVICENNA is fo very emphatical, I hope I fhall be excufed if I give the quotation. "Sed in fenioribus non fanantur eorum ulcera-et quandoque fanantur, deinde refcinduntur, quoniam non generatur in eis caro, nifi ante mundificationem; quando ergo retinetur in eis fuperfluitas non munda, oportet inde ut corrumpatur continuitas proveniens fecunda." De Ulcerib. Lib. iv .-- I have ventured, however, to cure ulcers of many years flanding 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 fpecific infection, merely as local affections.

ficient

ficient fupply in their flead. Here the phyfician ought to be confulted, and, indeed, it were to be wished 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 instance, should 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 favour either fide of the argument, and therefore fome latitude must be allowed, and the difcretion of practitioners must determine in particular cafes. WISEMAN, for inftance, gives us a remarkable one (Book ii. chap. 9.) of a young woman afflicted with a bad ulcer on

* 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 themfelves, or dreffed as they ufually are by paupers, with a little very bad cerat. epulot. But reafoning from facts, it appears full as probable, that the advantages of natural, or artificial drains arife more from irritation, than the difcharge from the fore. See Introduction, hages 40, 41.

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her leg, which for a long time refifted all the means ufed by himfelf and others, on account of fuppreffed catamenia, which periodically occafioned a foulnefs of the ulcer; till at length the fore being healed by the affiftance of 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.

* That this, and many of WISEMAN's beft cures were effected by a tight bandage, and often by a free ufe of precipitate, is exceedingly apparent.—Speaking of ulcers with great lofs of fubftance, which he dreffed with bafilicon mixed with precipitate, (which he there obferves he ufually carried in his falvatory) he expreffes himfelf thus.—" I then rolled " it up with expulsive bandage, the cure, indeed, confifting " mainly in the well-rolling—by the ufe of it, both the in-" flux was taken off, and the member ftrengthened." And again *chap. viii.* on the ulcer with callous lips, he fays " the " fpeedy cure of this I imputed to the laced-ftocking, it " performing all the intentions neceffary to the curing of " many fuch like ulcers."

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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, should be aimed at; yet when the cure is nearly accomplished, fuch a courfe is fuggested with the greatest propriety. A few brifk purges, at convenient intervals, should at this time be directed, according to the age and ftrength of the patient. The 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 ftanding, 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

other complaint, of very uncertain duration. If men will run *quo ducit gula*, they must themfelves, and not the physician or furgeon, who has once or more cured them, abide by the confequences.

BY way of Conclusion, it may not be amifs to hint again at the principal intentions of this work, 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 Rest and Confinement; free generous Diet * instead of a ftrict sparing Regimen; and strong Digestive Ointments rather than mild Poultices and cooling Cerates.

If the fuccefs of a plan varying in fuch effential refpects from any hitherto received, fhould juftify the hope entertained, the advantages will not be inconfiderable to men of pleafure or of bufinefs, but efpecially to the fuffering poor, who croud the public hofpi-

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

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tals much more on account of these diforders than any others. If they can be cured without being obliged to leave their families, and that labour by which their families are fupported, it is thought one grand obflacle 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 hofpital, most of whom may with more fafety and propriety, be cured out .of the houfe. But important and defirable as is fuch a defign, the author is aware of the obftacles there may be to the extensive ufefulnefs he has had in view, in rendering fuch a plan general amongst the very poorest and heedlefs part of mankind, who are feldom faithful to themfelves. Satisfied, however, of many advantages it will have amongft those of fuperior 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 requefts 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 to encourage them to perfevere, until further improvements will be made by them.

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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 fuccess in these cases, fome 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 thefe fheets fome trouble; who had no fuch defire of appearing in public, as needlefsly to have exposed himself to the hazard of censure, for opinions he has fuppofed novel among regular practitioners. To fuch he now fubmits the foregoing pages, perfuaded they contain fome im-

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

Vive: vale. Si quid novisti restius istis, Candidus imperti: si non, his utere mecum.

Hor. Epift. VI. L. i.



BRIEF

BRIEF

PRACTICAL OBSERVATIONS

ON SOME

SCROPHULOUS ULCERS;

OPHTHALMY;

THE

MAMMARY ABSCESS,

AND

GANGRENE.

INEST SUA GRATIA PARVIS.



- PRACTICAL OBSERVATIONS

UPON SOME

Scropbulous Ulcers,

WHEN I began to reflect on the great advantages that had refulted, in many bad ulcers of the legs, from a bold use of the hydrargyrus nitr. ruber, and of fome digeftive ointments of a warmer composition than those in common use; as well as from a generous diet and exercife, 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 tumours about the neck, fuppofed generally to be of the fcrophulous kind; 03 which,

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which, however, frequently appear, and break into very troublefome fores, without any other marks of that dreadful complaint.

I was further encouraged in thefe attempts, by fome obfervations of the late Mr. FREKE; who, indeed, was a man of a lively and warm imagination, and fometimes a little eccentric, but was, neverthelefs, a thinking man, and had plaufible reafons to affign for every part of his practice. His ideas of thefe cafes, (as well as of difeafed bones) ferved to confirm me in the opinion I had entertained both of the difeafe and the remedy.

I have now, for fome time, ufed the precipitate with great freedom in fcrophulous affections of the neck, and to very great advantage.—If the fwellings are at all difpofed 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 alfo 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

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fore will either not heal entirely, however fmall it may become, or will foon break out again. The fcars, however, are even fmaller, than when the ulcers are treated in the ordinary way. For the fkin, in this part, being thin, frequently loofe, and yielding; the tumour 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 obferved afterwards, without any proper fcar on the part.

The only difagreeable circumstance 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 fmall dofes, for a confiderable time, whilft I have made use of precipitate daily with great freedom. Moreover, as it is very common to prefcribe fea-water, or fome other laxative, in these cases, 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 caufe of it, will immediately take care not to increase it.

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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 these cases, is always too languid already. I find likewife, that the fores heal up as kindly without, as where mercurials, antimonials, cicuta, neutral falts, or fea-water are made use 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 hands of every other gentleman, who may give a fair trial to it.

If the patient is unhealthy in other refpects, fuch medicines fhould be directed as appear fuitable to his complaints, when the bark will, I believe, be frequently found as ufeful 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 tumours, and fuppuration of

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of the diffempered skin and glands, by means of the aforementioned epithem; a very bold and continued use of the precipitate; a nourifhing 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 shall 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 as fuch experience may be fuppofed capable of doing it. And of this I recollect two remarkable inftances;

* Nihil eft, quòd utiliffimam fuperflui et nocentis humidi perfpirationem tam egregiè juvet, quam motus corporifque exercitatio, qua tuendæ fanitatis vix præfentius datur auxilium,—Peregrinatio ad omnium falubritatem pertinet, quia non modo cum continuo motu, fed frequentiori etiam aeris infalubris in falubriorem mutatione conjuncta eft, quæ tuendæ fanitati et corpori a pluribus morbis præfervando egregiè velificatur.

> HOFFMAN. De Motu oftimo Sanitatis Præsidio. Cah. ix. et seq.

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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, conftantly with him. Neither of thefe patients took any other medicine than a dram or two of Ep/om 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 ufe 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 difcharge 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

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a red and heated appearance, the furrounding fkin will acquire its natural colour, and the patient himfelf, or his friends, will be able to judge of the favourable turn in his cafe.

I have advifed a daily ufe of the precipitate, which, indeed, I intend almoft literally; for when a good deal of the gland has been deftroyed, the fore and furrounding fkin will be found to contract under the ufe of it, as if an aftringent application were made ufe of; and the parts will actually heal up to the breadth of a ftraw, whilft this active mineral, which has already deftroyed a clufter of diftempered glands, is daily applied.

I have elfewhere taken notice,* that electricity has been found very ferviceable in thefe fores, and that it becomes fo by communicating powers to the parts. But it will be further neceffary to remark, that it not only forwards maturation in fuch tumours as are previoufly difpofed to fuppurate, but does it in the moft advantageous manner, as well as ex-

* Vide the Introduction to Treatife upon Ulcers, page 18. (Note.)

pedites

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pedites their healing, and often without for much as a fcar. For tumours brought on by this means to fuppuration, frequently break only into very fmall apertures, from which, however, the matter runs very freely by the daily ufe of electricity; and when they are difpofed 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 formany pin-holes, remain.

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 tumours, and particularly those 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 copious maturation, which both prevents fo much of the glands being affected, and occafions a more perfect diffolution of that which is already distempered, I can confidently advise the early ufe

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ufe of the fuppurative 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 thefe tumours 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.

But fhould a fcrophulous tumour in this part be unufually large, it may be treated in a fomewhat different manner; it fhould, however, be fpeedily 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 occafion for fo bold a ufe of the precipitate, but the extent of the tumour 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

* Hence, probably, it is that the Malvern-Waters have fometimes proved fo beneficial in these cafes. See a note on the Malvern-Waters, in the Treatise upon Ulcers, page 129.
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very bad state, (which it frequently, indeed, is; before large tumours suppurate plentifully) it will be found very convenient to open the abfcefs, by making only a puncture with a lancet, first at the top, and then at the bottom of the tumour, fufficient to pafs a feton through it; or it may be done at once by a fmall fetonneedle, armed with a flender fkaign of cotton or filk. Befides every other advantage of this method of difcharging the matter, which will alfo be gradual, is the exclusion of air; a point fcarcely enough attended to in the treatment of absceffes. The feton being introduced, should be drawn up and down at least twice every day, and fometimes be moiftened with fome proper deterfive cintment; and occafionally fprinkled with precipitate. The conftant irritation of the feton, will tend to diffolve the remaining hardnefs 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 also dispose the bottom of the abfcefs to throw up healthy granulations, the moment the hardnefs 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 tumour;

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tumour; no more than the marks of the punctures, and a little rednefs of the fkin, as it was obferved, 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 should be gradual, by removing a few threads at a time;) and yet no fresh hardness take place, nor the difcharge be increafed, 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 aq. litharg. acet. 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 the late Mr. WATSON .- If the edges of the punctures become callous, a few touches with the argent. nit. will foon foften them, and difpofe the punctures to heal.

If I might be permitted to offer any further hints on these troublesome fores, and to judge from some favourable circumstances joined to a little experience, I should hope the last mentioned

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tioned 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. 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.

Since the first edition, I have had fome further experience of the virtues of camphor in cold tumours, and I can now recommend it, in confequence of fuch trials, as frequently capable of difperfing fuch as have long been in a quiefcent state, and not difposed to suppuration. Such tumours have fometimes proved exceedingly troublefome on this account, remaining indolent after others have suppurated plentifully. In this state, oil well faturated with camphor,* has become a very useful 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 greafed with it, be kept conftantly to the throat. The patient at the fame time ought to take a drachm or two of the Sal Rupil. every morning.

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fafe application, and by refolving the fmaller indolent tumours, ferves to complete a cure, that would otherwife have remained imperfect, after all those had been healed, which the epithem had brought to suppuration. Electricity likewife, though it forwards fome tumours, will affist the resolution of such as are not disposed to suppurate.

These things are all I mean to propose for these ill-conditioned tumours, which I believe, indeed, will often require no other affistance. 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 prescribed, (if none of the larger joints be affected;) unless in some instances, it be fea-bathing, the great advantages of which are extremely uncertain, and to be known only by the trial of it: every practitioner having found his utmost expectations exceeded by it in fome cafes, whilft 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-feafon, when fea-bathing is thought by fome practitioners to be attended with hazard, to delicate habits: or fhould even P that

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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 myfelf, and been informed of by others, of the fuccefs of the ordinary means, I can venture to fay, that the cure will often be more expeditious and certain, as well as lefs unpleafant, if the plan should be generally adopted .- It is fcarce neceffary to add, that after the cure, or just before it is completed, it will often be adviseable to open an iffue in fome convenient part of the body, as well as to attend carefully to the diet, and continue the exercife for a time.-Should the patient have been fubject to ophthalmia, or have other mark of fcrophula in the habit, these will

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

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be additional inducements for making a trial of fea-bathing, which he fhould not only continue through the feafon, but return to it, at leaft, the following fummer, if it has been evidently beneficial. Should a difpofition to ophthalmy return, or other weaknefs of the eye take place, other remedies will be requifite, as will be noticed in the following tract.



P

BRIEF



BRIEF HINTS

ON SOME OF THE

MORE COMMON DISEASES

OF THE

EYE.

P 3



OF THE

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HAVING in the preceding obfervations had occafion to mention the fcrophulous ophthalmy, I fhall in this edition drop fome further hints on that complaint, in a few additional pages on the more common diforders of the eyes, which may, at leaft, ferve to direct the young practitioner.

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

A prin-

A principal occasion of these complaints lapfing into fuch hands, is, perhaps, the very great uncertainty in the operation of the beft remedies, owing to the variety of conftitutions in the fubjects of them, as well as to the very different treatment these diforders require at different periods. Hence the numerous eyewaters 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 difpofition to exceffive *relaxation*; but between thefe alfo, there is a diffinction frequently to be made, that is of the greateft importance, but has not, I think, been very generally obferved. Thefe fymptoms, indeed, fometimes exift together, and are dependant on one another; but what I defign to remark is, that in diforders of the eyes, there is a fpecific difference between them, 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 ftates of this organ, whilft bracing applications will as often prove exceedingly prejudicial in cafes attended with great relaxation.* Hence it muft happen, 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 circumstance 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

* It is very probable, it may be on this account, that the thebaic tincture has proved fo beneficial in a great variety of cafes, related by *Mr. Ware*, wherein neither the wine alone, nor opium diffolved in water have had a like good effect: a circumfiance I am difpofed to credit, though I never thought of making the experiment.

have

have carefully avoided urging any antiphlogiftic plan beyond a certain time, and particularly as to the ufe 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 refpecting bracing and invigorating applications, which notwithftanding the irritable difposition 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 sedat, is a well known adage, and often as applicable to painful affections of the eyes, as to many other instances of spafmodic affections; though the good effects of irritating applications may, perhaps, be otherwife accounted for. But the frequent uncertainty of our remedies, for the want of making adequate diffinctions in regard to the length of time thefe complaints may have continued; their various caufes; and the habit of body of the patient, has given rife to a hundred different remedies of the fame clafs; has puzzled young practioners, and has promoted the caufe of empyricifm.

As the intention of fuch observations as can be contained in the limits I have affigned to myfelf, can only be general, I shall hasten to attempt some improvement of the above remarks, and to point out some practical directions for the treatment of these very common, and very distress 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 antiphlogiftic 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 antiphlogistic 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) should 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; cathartics, and nitre; (which latter fhould be exhibited with great freedom);

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. Tonic, topical 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 present, be perfevered in. It is not, however, a diftention of the veffels of the tunica conjunctiva with red blood, that forbids a recourfe to fuch means, or to the continuance of them; for this will happen

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 the eyes, is generally plain and obvious, and no one is at a lofs for fuitable remedies; but in habitual affections of thefe organs, where frequent returns have induced other fymptoms, and difpofed the parts to peculiar relaxation, or irritability of its veffels and nerves, the greateft fkill is required to diftinguish them, in order to form a rational and fuccefsful 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 difcrimination; and which taken in connexion with the present occasion of the complaint, the frequency of its appearance, and

and the conftitution 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 fenfe of weight is felt, in the upper eye-lids, which are inclined alfo to drop, accompanied with a yellowish tinge of the tunica conjunctiva, that feldom 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; it will be found, that the above fymptoms will not be usually met with in cafes of fimple relaxation, where mere aftringent applications prove ufeful, which in the former will always ferve to aggravate the complaint; as will even dashings 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

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at no lofs for fuitable remedies; and as I would not appear to multiply them by needlefs prefcriptions, where the furgeon is acquainted with varieties enough, I fhall 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 ftrength, as occafion 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 shall therefore only observe, that applications partaking both of a fedative and invigorating nature, fhould be immediately had recourfe to. A very powerful remedy very often in these cases, is an aromatic volatile vapour,* conveyed to the eye-lids, through a fmall inverted funnel, efpecially at going to bed; and from which I have feen aftonishing effects, where the patient has been for years

+ See page 181.

* Two drachms of the Spir. ammon. comp. in two ounces of water, kept boiling, will answer this purpose very well.

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fubject to diffreffing complaints, and in danger of lofing the fight. Some benefit may likewife be obtained by daily touching the upper cye-lids and parts about with the fpir. ammon. comp. Thefe little means have alfo been very ufeful where I have fufpected a difpofition to cataract and gutta ferena:* 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.[†]

I may here add another obfervation, derived from repeated experience in what I would call a nervous ophthalmy, in regard to the ufe of collyria; which, though *a priori*, we fhould prefume ought ever to be ufed cold, are, never-

* By the fame means, I likewife once removed a very painful nervous affection of the teffes of long flanding, which had rendered the parts fo exceedingly irritable, that they could fearcely endure the lightest touch, and had rendered a married gentleman very miferable; 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 several recent cases, I was indebted to Mr. Hey, senior furgeon of the Infirmary at Leeds; some of which cases have fince been published in the 5th vol. of the Medical Observat. and Inquiries.

thelefs,

thelefs oftentimes inftantly beneficial upon ufing them actually warm, efpecially in cold weather. Of the propriety of this change, the fenfations of the patient upon the ufe of cold collyria will frequently be a guide to us; and I have only to remark, that they ought not to be ufed warm for any length of time, in which refpect, however, the intelligence of the patient may again ferve to direct us,

Amongft the means for removing great inflammation, was mentioned the defending the eye from a ftrong light, which is, indeed, indifpenfibly neceffary. This fhould, however, be rarely extended to keeping the patient's room perfectly dark, or covering the eye itfelf in fuch a manner as to exclude all contact of light;* as fuch covering, by heating the

* I hope it may not be deemed altogether impertinent in this place, to offer a few obvious cautions, fcarce fufficiently attended to by thofe whofe eyes are naturally weak, or flightly diftempered. 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 possible, to be always exposed to the fame degree or quantity of light. This attention is particularly necessary 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 exercised; and is, \mathbf{Q} indeed,

the eye, will always add to the complaint. But in cafes of conftitutional ophthalmias, and particularly in fcrophulous habits, a perfectly erect pofture, throughout the day, with the head raifed as much as may be, at night, is effentially neceffary, and eminently ufeful; infomuch that frequently, no means of cure will fucceed unlefs this be very ftrictly 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 obftinate inflammation had been kept up for feveral weeks, and the patient unable to

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 inftances; and patients have been recovered from the danger by little more than attending to this circumftance. For the like reafon, reading in the dufk of the evening, and then, fuddenly, by a firong candle-light, may induce mifchief in weak and diffempered 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 glaffes, 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.

endure

endure the leaft glimmering of light, or to open the eye-lids without the moft 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 fhall prefently mention; and efpecially to admit light gradually into the room, as the patient fhall be able to bear it. In regard to medicine, nothing, I believe, does fo much good as the bark, and fhould this not prevent frequent relapfes, the patient, it has been faid, fhould make trial of the fea; which is more frequently ufeful in fcrophulous ophthalmias than in any other inffance.

Something has already been faid in favour of invigorating applications, which for the chronical ophthalmia, and that tedious one which fometimes follows the meafles and fmall-pox, as well as in many fcrophulous cafes, ought to be made much more active than they ufually 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 Q_2 thefe

these should 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 ftimulus 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 ufually, 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 remedies. 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 ceruffa acetata, white vitriol, and all the other ordinary ingredients of fluid collyria."

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Such may be made by the addition of the unguentum hydrarg. mit. to the ceratum fperm. ceti, or if a greater ftimulus is required, by one or two drachms of the hydrarg. nitr. ruber, very finely levigated, to half an ounce of unguent. ceræ, and the like quantity of olive oil; or what is frequently more efficacious, a kind of unguent. hydrarg. nitr. of different firengths, perpared with fresh butter, and to which camphire should be added. The infide of the eye-lids 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 eafy and pleafant through the reft of the day .- Indeed, had I nothing elfe to offer on difeases of the eyes, than the careful diftinction between the true inflammatory, and chronic ophthalmy, (which is feldom fufficiently attended to) and the fubftitution 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 for fometime were far from taking pains to make their virtues generally known; Q_3

known; which they certainly were not.—Nor fhould gentlemen of more liberal fentiments, at the head of the profession, conclude every publication needless that may contain nothing new to them; nor suppose, that because they make no fecret of their knowledge, that the generality of practitioners are as wise 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 efpecially troublefome in thefe. Amongst the various remedies in common ufe on these occasions, beside issues, the bark, and warm pediluvia, which are very frequently

* Since this paper was drawn up, I have feen Mr. Bell's obfervations on Ophthalmia, 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 fill 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 should not have thought of writing on the fubject. I can, however, deelare, that as I have made no addition nor alteration, whatever, (except the notes inferted at pages 217, and 236,) fince I heard any thing of Mr. Ware's treatife; fo did I not hope there may not be hints in the prefent that will have their ufe. I should even now have fupprefied it.

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beneficial, I shall venture to fuggest one, that may be given to advantage where no other remedy may be peculiarly indicated; this is, calomel joined with cicuta, a remedy not in very common use, but well adapted to many old and obstinate diseases of the eye.

Since the last edition of this work I was confulted for a recent, but confiderable inflammation, attended with excruciating pain. The latter was foon nearly removed, but the inflammation and dimnefs of fight, yielded very little to any means. Two eminent oculifts, were afterwards confulted, and conceived the complaint to originate from variolous infection, the patient having been attending feveral children under inoculation. No means, however, proving useful, but the patient becoming lefs able to endure the light, fhe went into the country; where the was advifed to apply fix or eight leeches around each eye : in two days; the inflammation disappeared and her fight in a very little time became nearly as ftrong as it ever had been.

No common complaint is oftentimes more difficult of cure than affections of the eye-lids. These are fometimes attended with a diffention and redness of the vessel of the eye, Q_4 and

and fometimes not; but vision is always impaired. In fome inftances, likewife, 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 argent. nitr. 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 caufe of this very obstinate 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 efpecially, the unguent. hydr. nitrati, prepared as before-mentioned, a remedy perhaps fcarcely to be equalled for this, and many other fmall ulcers. I have alfo feen great good effected, in a few days, by a very old remedy made ufe of frequently in St. Bartholomew's hospital, and for which I am obliged to the late Mr. Port; though my own experience, indeed, goes to a preference of the unguentum hydrargyri nitrati.

> R. Lapis Tutiæ pp^t. Calamin. āā ziij.

> > Plumb.

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Plumb. uft. Gum. Camphor. āā 3j. Myrrhæ, Sarcocoll. Vitriol. alb. āā 3 ß. Butyri infulfi, 3vj. Accurate mifceantur.

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

This may be efteemed 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 ftate 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 if not timely attended to, will fometimes burft, and the patient be confequently deprived of fight, at leaft for a time. Very foon

foon after this, both the inflammation and difcharge generally ceafe; and the aqueous humour being in fome cafes reftored, and reretained by a fpeedy cicatrice of the cornea, the patient recovers a very tolerable degree of fight. At other times, fome internal part of the eye, and particularly the iris, is fo greatly injured, or the cornea is fo much impaired, that it remains collapfed, 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 happinefs of finding the eye much lefs injured than had been fuspected, either from the great difcharge and long continuance of the inflammation, or from the appearance of the eye itfelf, 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, fmaller 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.

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This being, perhaps, the most violent of all inflammations, requires the fpeedieft affiftance. The patient fhould be let blood freely and repeatedly, (according to the age and habit of body), efpecially in the neck, or by opening the temporal artery; the turgid veffels paffing over the fclerotica should be frequently divided ; leeches should be applied to the temples, and blifters to the back, and behind the ears; the patient should be purged gently; and the thickened tunica conjunctiva fhould be deeply fearified once or twice a day, as long as it falls out fo 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 inftilled 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 thefe means fail, or what very often happens, affiftance be called in too late, the lids muft 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

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out the day, and at night be covered with a little of Goulard's Cerate, fpread upon very thin linen, and over that a light comprefs, 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 difcharge still increase, a drop of laudanum, or of a folution of the green vitriol calcined to whitenefs, fhould be inftilled into the eye, at leaft 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, unless it be some one of the mercurial liniments before recommended.*

* In Mr.WARE's Treatife on Ophthalmia, firong commendation is given to Bates's aqua vitriolica camphorata, diluted with about fixteen times its quantity of water, as a collyrium, to be made ufe of from the first appearance of this inflammation. I have now for fome years been in the habit of using it, in most cafes, in preference to other means, and with very good fuccefs. But apart from this experience of its efficacy Mr. WARE's ideas of the complaint appear fo perfectly to correspond with my own, that it would feem to me an injustice to fuch readers as may not be acquainted with that work, not to mention a remedy fo well calculated to counteract inflammation, and recommended upon fuch authority and experience.

In fine, the grand remedies early in the difease feem to be blifters and topical bleedings, efpecially by leeches; but then it is not the application of one or two that will answer 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 most formidable inflammation, and nothing further be required than the use of some 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 must be had recourse to, and the cortex be administered in large dofes.

THERE is an ophthalmia ftill 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, though at others, I believe it has, from the firft, the appearance of the common ophthalmia; which, how-

however, ufually comes on in one stage or other of the difease.

It is fometimes a complaint of long ftanding, ftealing on for a while almoft imperceptibly, till the patient is alarmed, at being fuddenly, almoft 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 indifpofed to contract, though the eye be expofed 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 robust habits, nor have found general bleeding, 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. hydrarg. nitr. and dropping a little

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a little laudanum often into the eye, fcarifyingthe under-lids, and in the end, I think, feabathing, 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 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 firft arofe from accident, and in proper hands may be as fafely, as advantageoufly ufed. This refpects the aq. litharg. acet. which I have known made ufe of, undiluted, to advantage. I have, indeed, never made trial of it in this ftate, but have ufed it in the proportion of one drop to three or four of water, and have never feen it do harm; or the extract may

may be mixed up with olive oil into a liniment, which will give lefs 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 inflances is more certainly removed by active applications, than by any other means. I have long been fatisfied of the justness 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 the late Mr. HUNTER, fupporting it by fo many striking facts, in his late treatife Indeed, we have on the venereal difeafe. 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.*

* 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 fufpicion of his fuppofing them capable of doing every thing,

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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.

A very fmall portion of the former may be applied, by a camel-hair pencil, when the patient is in bed, and after a few times using, be repeated in the morning, if the complaint be not greatly abated, nor the means difagree. The vaft difcharge produced in many chroni-

thing, or that a trial, at leaft, ought to be made of them on almost every occasion. Nothing, indeed, is further from his own ideas, who wifnes only to lead young practitioners to diffinguish cafes with judgment; and having done fo, 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 moft rational principles. And as a general apology, he would here obferve, that he fet out with no peculiar theory of his own, but being gradually and naturally led to the various trials he has made, repeated facts have confirained 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 fupported by found reafoning 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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cal cafes by fuch flimulant applications, and the action into which they throw the parts, are often the moft likely means of removing many obftinate 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 flate of reft for many weeks, 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. cupri ammon. 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 cauftics 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.

* See a more full account of diforders of the eye, in the author's Treatife on the Difeafes of Children, vol. ij.

MRS.

MRS. HOPPEY, aged about thirty years, the wife of a grocer formerly of Great Ruffel-street, Bloomfbury, was attacked with the common fymptoms of ophthalmy, at a time I was making occafional vifits to 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 should be blooded again, on account of the fevere pain fhe underwent, it was ftrongly objected to, and as I afterwards underftood, 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 called in.

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 R 2 pufhed

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pufhed forwards, the veffels of the lids, fides of the nofe, and forehead were fwelled, and were attended with confiderable pulfation. Thefe fymptoms increafed for feveral months, notwithftanding different means made ufe 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 apprehenfion of an aneurifm within the orbit, which it was expected might fuddenly give way. About this time, the late *Mr. Watfon* was likewife confulted; the operation was determined upon, and the day for it was to be fixed as I fhould fettle 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 houfe, and I requefted 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 that, although he rather *boped*, than was fatisfied of this particular, he thought it might be trufted for a few days, with the cautions

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cautions and directions he had given the patient. In about a week after this he acquainted me, that he wished the operation might be postponed a while longer, as the tumour was certainly not increafed, 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 diminished; the pain likewise being less, 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 should indicate its neceffity.

During this fuspence the pain became very inconfiderable, 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 fhe was well; and though fhe knew not for certain when the change had first taken place, she had a few mornings before observed, whilft standing at her glass, that the

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the affected eye looked nearly as well as the other, and that upon clofing the latter, fhe found her fight alfo was perfectly reftored.

Upon this agreeable news I took a formal leave of her, only when I had occafion to vifit any of the family, or was at leifure when I paffed 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 fquinting that never totally left her.

Eleven years after her recovery fhe went to refide at *Manchester*, 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 obferved to increafe, till the eye was at length turned quite to one fide; it was likewife pufhed a little forward again, though the fight remained unimpaired. But fome weeks after this, fhe 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

of the neck. In a few hours after this attack, the loft the fight of the eye, which inftead of continuing to puth forwards, was rather withdrawn within the orbit, and the upper eye-lid dropped; which the 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 have to remark, 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 this extraordinary complaint.

TREATMENT



TREATMENT

OF THE

MAMMARY-ABSCESS

AND

Sore-Ripples

LYING-IN WOMEN.

OF



TREATMENT

OF THE

MAMMARY-ABSCESS, &c.

BEFORE I fpeak of the milk-abfcefs, I fhall 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 obftinate 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 camelhair pencil; the part being afterwards covered

* The vitr. viride ad albitudinem calcinatum, diffolved in common water. See page 181.

with

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 thefe cafes, and certainly, in drawing out a bad nipple, by covering it with a large nutmeg, hollowed out, and the edges left flat. But whether the warm aromatic quality of the nut has contributed to this, or it has arifen 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 beft time to have recourfe to the folution, which has hitherto anfwered 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 Itanding, it will be useful 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

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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 inflances, my chief dependence is upon the folution, which if properly attended to, will remove the complaint. It has also flood the teft 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 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 fhould be faid of the fuccefs of this remedy fince thefe obfervations 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 ufe of it with lefs fuccefs. It is to be lamented, that if men are generally found partial to their own difcoveries, others are oftentimes

times 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 increafed 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 least, much oftener fuccefsful than any means hitherto in general use; and this is all that he means to affirm .- The tongue will be the best 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 thefe accounts, it can be no wonder, if it should do less good when left in the hands of nurfes, or used merely at the difcretion of patients, fome of whom do not make use of it frequently enough, whilft others are inclined, as improperly, to keep it conftantly on the part, or make it too ftrong. 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

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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 obftinate 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 frequently does not 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

rious other occasions which threaten fuch a complaint, fince, perhaps, the only one in the patient's power to prevent, 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 obferved, that the cuftom of bathing the breafts 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 fpirit, as foon as the patient is delivered, may be harmlefs enough ; though if fomething muft be done, in compliance with cuftom, the application of a diachylon plaster will answer every ordinary intention, without any of the difadvantages which attend the frequent repetition of useless 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 recourfe to fuch as actually poffefs any confiderably repelling property, they will, of course, be directed by the practitioner himfelf, who will give every neceffary caution; as the confequences of cold taken in the application,

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plication, are generally much more likely to give rife to fuppuration, than leaving the bufinefs to nature.*

THE first fymptoms of fuch an unfavourable turn, are ufually a deep lancinating pain, hardnefs and tumour 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 mifchief, as a very fhort 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 ufually found to be the

* It is perhaps worthy of remark on this occafion, that the mammary-abfcefs was for a number of years a very common complaint in the *British Lying-in Hoffpital*; and has always been attributed to cold, as the most general caufe. The justness of this fuspicion has been confirmed fince waterclosets have been confiructed on every floor. Previous to this, feveral women, from motives of delicacy, were inclined to go, too early, across a paved yard, though continually cautioned against it: but for full two years, fince that contrivance has been made, there have been only two inflances of the mammary-abscess: and the like exemption has continued fince the last edition.—Though this circumflance may, perhaps, be thought to prove too much, it nevertheless being a fact, ought to have its proper weight.

moft

most powerful discutients. Sometimes, however, folutions of crude fal ammoniac, with the addition of a good quantity of fpirit, and if the inflammation be very recent, fome vinegar, will be more adviseable than faturnine remedies. Compresses of coarse 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 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 further danger of fuppuration. On the other hand, if there be not a very early and confiderable abatement of the first fymptoms, however flowly the procefs may go on, the breaft will feldom fail to fuppurate. In this state, therefore, the plan ought very foon to be changed, in order to forward the work of maturation. And this, wherever the pulfe 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

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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 muft be continued till 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

* A very good poultice of this kind, is that formerly made ufe of by *Plunket*, and is preferable to that of mere linfeed. 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 yelk 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 înflammation, efpecially in glandular parts, too obvious to be particularly infifted upon.—As a *mean* of fomentation, a wooden-bowl of a proper fize, made hot in boiling water, is much lefs troublefome than wet flannels.

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length

length of time taken up in that process, will be the fize of the abscess, and the time afterwards necessary for its cure; at least, this is pretty uniformly the case.

Of no lefs importance is the manner of treating absceffes after the matter is well formed. And here I am conftrained to oppofe the ancient 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 whole unremitted labours 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 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

But I shall not enlarge here, on the many unfavourable circumstances attending fuch a practice, and the tedioufnefs of the cure as the inevitable confequence. I mean only to' hint at a method every wife 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 diftreffing to the patient, but the breaft will heal fooner when the abfcefs is left to burft of itfelf. Hereby, we are fure the fuppuration will become as complete 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 supported 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 the ac-S 3 count,)

count,) a critique appeared in the English Review of a very different caft. To the Editor of this (as well as those of the Monthly and Critical Reviews) I, indeed, feel myself much indebted for a very respectful and candid account of the first edition of this work. Objections, however, are made to leaving milky absceffes to burst of themselves, and perhaps fome of the first furgeons may be of the fame opinion ; which renders this point very worthy of further difcussion. It fearce need be observed, that I had myself 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 circumflance an argument for opening fome fmall abfceffes; but, from a fair comparison 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 abfcefs to burft of itfelf, may without any difadvantage be much abated, or intirely removed by a dofe or two of laudanum, I have on the other

other hand, after having opened thefe abfceffes 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 fubfequent occasion determined to leave the business to nature, and to endure with patience the effects of her operations, or at most, to stun 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 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 constrained to doubt the justness of this observation. I was myfelf 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 imposthumations will not be formed, but in cafes where other parts of the breaft

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are in an obstructed and distempered state, and not yet inclined to fuppuration; in which cafe, let the first abfcefs 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 fuppurated, the matter has found its way to the first and only orifice, which has difcharged 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 how foon incifed wounds are disposed to heal up at the angles, especially if extended into the found fkin, leaving only a kind of fiftulous orifice in the centre. So that upon the whole, after having beftowed much attention on this fubject, it is still my unprejudiced opinion, that it is in general best to leave the business to nature :

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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 difcharging the matter, it was faid, is ufually the beft; there are, however, inftances, where I have thought fmall punctures made with the point of a lancet have their ufe. Such are, first, absceffes that fuppurate very quick, and with exceffive cutaneous inflammation; whereby, early and pretty large floughs will foon be formed, if the ulcer be left to break, though fome parts remain yet very hard around the protruding furface. So likewife in those cafes where the whole breaft is very hard, and the habit not difpoled to form matter fo plentifully, as the indurated flate of the part feems to require. Here a great number of very fmall impofthumations are formed; come very flowly to a head; often thicken and harden the fkin; are but little difposed to break, and cease to difcharge as foon as they have vent. The little tumours 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

light frictions with a weak volatile liniment, and fometimes a cautious ufe of the unguent. hydrargyri; which fhould not be forcibly rubbed in, but fpread lightly over the breaft. At this period, the exhibition of the bark is found ufeful in fome conflictutions; in others, fmall dofes of corrofive fublimate; and I have fometimes found the decoction of farfaparilla, and powder of millipedes, or fweating with pulv. ipecac. comp. of very confiderable fervice; as well as purging now and then with rhubarb and calomel.

The worft cafes I have met with, have arifen 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-ufually painful at first. The appearance, in fome instances, is very alarming, but they all, neverthelefs, end perfectly well if prudently managed. I have been called to cafes of feveral months ftanding, where the breaft had entirely loft its natural appearance, had become hard in every part,

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part, flattened, and the nipple been almost obliterated. When the difeafe extends to fuch a degree, fuppuration must take place, and, indeed, is a defirable event, as otherwife mifchief would enfue ; for I believe, an entire refolution of the tumour 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 unguentum hydrargyri, from half a fcruple to half a drachm, repeated pro ratione effe El us, and now and then taking away a fmall quantity of blood; 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 unfavourable, and not at firft to be diftinguifhed 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

been faid, is in most cases, 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 tumour 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. litharg. acet. comp. 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 fefult of long experience both in the Britifb Lying-in Hospital, and in private practice; not, indeed, as a treatife upon abfceffes of the breaft, but as the out-lines of a pleasant and fafe practice, which every man of experience will know how to apply, and the young practitioner may possibly profit from.

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 incisions formerly made, the

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the milk-abfcefs will very often prove exceedingly painful, while the neceffary long ufe of poultices must render this complaint very difagreeable to the patient. If the number therefore may be in the least diminished, by the fpeedy cure of fore nipples, fuch a remedy must be acceptable, in a double respect, to gentlemen engaged in the department of midwifery.*-Perhaps, furgeons in general may be glad to hear, that the aftringent folution is very useful in other fistulous 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 ufe, (which I do not know it ever has,) it may be found very ferviceable from its friendly aftringency, in many cafes which I shall not yet take upon me to speak of. The vitr. cærul. calcined to rednefs 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

* As a prophylactic, I can fafely venture to recommend Relfe's Nipple-Jhield; now fold at Mr. Savigny's, King-freet, Covent-garden.

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offends irritable fores, unlefs it be made extremely weak; by which it will be rendered greatly inferior to the folution I have recommended.



STRICTURES

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UPON

GANGRENE.

THOUGH various are the fources of knowledge in this country, they muft ftill be confidered as imperfect; and perhaps, nothing is fo much wanted for the improvement of the *healing art*, as a public inftitution fimilar to the *Académie Royal de Chirurgie*, as eftablished 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 admission, as a visiter, is premitted only to a few. Besides, the members of these focieties consist chiefly of students, who attend T

rather to learn than to instruct; whence fuch eftablishments are rather calculated to communicate a little fuperficial knowledge, in a fhort time, than to perfect any of the members; many of whom continue only a year or two in London. The inftitution, in fome respects, more resembling that of Paris, is with the College of Phyficians, whofe Fellows, at stated times, read papers, drawn up by themfelves and others, on medical fubjects. But though their judgment and impartiality will not be fuspected, and their felection of papers may give more fatisfaction, than any private editors; yet this inftitution likewife falls fhort of the prefent intention : for befides that their plan is too limited, their readings and obfervations are not open to the profession in general, and especially 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 conftrained 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 con-

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confined to a very fmall 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 conversation; whereby the young artift, conceiving himfelf unlikely to receive the credit of the obfervation, 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 difcuffed, and the refult of experience and inquiry duly published, would quickly spread 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 trifling publications.

I have been led into thefe reflections from confidering different parts of the prefent little work, and efpecially the fubject immediately in hand; on which I defign to fay fo very little, that it might well have been fuppreffed, but from the perfuasion it will con-T 2 tain

tain fome hints not fufficiently known, efpecially by fludents, and for which the young reader of the former parts of the work may poffibly find occasion, before the hints might otherwise fall in his way.

It was on this account, that the first edition of my Treatife upon Ulcers of the Legs was not published by itself; to which alone, however, I had first turned my thoughts. Perfuaded, neverthelefs, as I was, that the treatment of fome fcrophulous tumours might be improved upon, and that the most easy and fafe method of managing the milky-abfcefs, as well as other matters there treated of, 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, exposed, I am, neverthelefs, 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 criticifed, or the author mifjudged. 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 digref-

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digreffion, by way of introduction to the very few hints to be offered on the fubject of Gangrene.

GANGRENES may be diftinguished into four kinds; fuch as arise from irritation, attended with more or less of local inflammation; from an inflammatory diathesis of the system; from general debility; and from dyscracy. To each of these species, external injuries may give rise, or become the remote cause.

From this variety, though not always clearly underflood, 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.

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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, by mere external applications, than may have ufually been imagined, and has been one inducement to me to intrude thefe 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 fuccessful 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 species of gangrene; though the latter, fince the time of Douglas, has been fo much depended upon, that even Mr. Pott, when he first recommended the use of opium in gangrenes of the toes, for which the public has been judged much indebted to him, feems cautious of being fuspected of speaking difrefpectfully of a medicine, which in every other species of gangrene, he himself appears to efteem almost a specific.

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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 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 lofs 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 caufes; and therefore fail of effecting a cure, whilft they are employing excellent remedies for one fpecies of a difeafe that has various modifications. Hence it is, that the bark and cordials have been fo T_4 univer-

univerfally extolled for their wonderful fuccefs in gangrenes, for different fpecies of which they are almost fpecifics, whilst they as constantly fail in others, to the furprise only of those, who are prefcribing to the name of a difease, without attending to concomitant fymptoms, and different constitutions.

THE bark failing in fo many inflances, 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 first advised by Mr. Pott, has also been productive of mischief when prescribed 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.*

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* 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 ulcers) I had not then seen the last edition of Mr. Bell's Surgery, in which are many valuable practical obfervations, and excellent diffinctions of gangrenes. Had he more completely accomplished this design, and he himself had experience of the great advantages arising from a due recours to opium, in very many cases, I should have thought the expediency of these hints entirely superfeded. But Mr. Bell, does no more than barely mention that remedy, in a note,

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 suppuration. After thefe 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 as long as this shall continue, the blood remain fizy, and perhaps the bowels coffive, loading them with bark, which the flomach cannot digeft, is only adding fuel to fire, by augmenting the load, or increasing the action

a note, as having been recommended upon the authority of Mr. Pott.

* Since the former edition of this work, fome good obfervations have been made by *Mr. Kentifh* of *New-caftle*, on repeated bleedings in gangrene from the offification of an artery.

of the fystem, and rendering the partially obstructed veffels totally impervious.

But there is often local inflammation and great pain, attended with a quick and even tense pulse, that depends more upon spafm, than a true inflammatory caufe, efpecially in old people. Here, much caution and general. knowledge is required; but ufually opium is the best remedy, and may be fafely adminiftered every four or fix hours, as the pain may require, after two or three ftools have been procured by a gentle laxative or a clyfter. 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 efpecially the bark, as in old people the fyftem 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

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 ftopped, and the patient recovered, the recovery may fafely be attributed to the ftrength of the conflitution, of which the inflammatory difpofition has been brought down by the length of the difeafe, rather than to the propriety of the means that have been made ufe of.

On the other hand, I have feen a rapidly fpreading gangrene, even in advanced years, where bark has been adminiftered freely without any good effect, immediately checked upon taking away twelve or fourteen ounces of highly inflamed and fizy blood, unloading the bowels, and inftead of cordials and wine, refrefhing the heated patient with faline draughts, and afterwards quieting with opium. So alfo in the fpurious inflammation dependent on irritation, I have known opium keep off a difpofition to gangrene in the toes, even for years, where the difcolouration and pain have COn-

conftantly returned foon after the opium has been laid afide; although the patient has died at laft of a gangrene of the extremities, at a very advanced age.

By whatever means, however, the gangrene may be ftopped, 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 must be supported by a generous diet throughout the cure. Should they fail in cafes evidently of this clafs, the vitriol. cærul. should be given instead 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 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 ftomach will bear it. I once faw a remarkable inftance of this in a large fpreading fphacelus, which was immediately checked by it, after the largest doses of the bark had failed; and repeated re-appearances of

of the gangrene upon returning to the bark, as often ftopped by returning to the vitricl.

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 fymptons peculiar to the feveral cafes we are treating; and we fhall find many gangrenes of the most 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 flate 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

ble 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 instrument. 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 antiphlogiftic remedies, to the exclufion of the only proper, and very oppofite 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 mischiefs, and some 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 stopped, and the perfon been perfectly well the next day, by the oppofite treatment. The beft remedy

remedy of this kind, I believe, is wine, which fhould be partaken of freely, according to the conftitution and habits of the patient, and if had recourfe to on the day of the accident, or any time before rigour, lownefs, thirft, or other fymptom of affection of the fyftem have taken place, will generally prevent further infection, by ftirring up the vires medicatrices naturæ to expel the poifon. This may be further promoted by proper dofes of the bark, taken on the next day. The punctured part fhould alfo be touched with the argent. nitrat. or if the injury be confiderable, with the cauftic alkali, which will penetrate deeper.

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

When the probable caufe of the gangrene has been difcovered, together with the general habit, and prefent circumflances 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 fpirits, when the general habit needs to be cooled and unloaded, were as contrary to good principles, as it muft

be unfuccessful 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 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 fystem. 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 occasion a favourable turn to the difease.

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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 thefe cafes, if they occafion 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 fhould 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 state of general debility, though from irritation there may be too great local action, which if not foon removed by a contrary flimulus from active applications, the continuing of them will increase the complaint. Here, fedatives, 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, and mitigating the pain; after which, tonics external and internal, should be employed.

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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 fupposed, but as much from its being a fedative, and applied in a cold flate, as from any fpecific 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

* This may be made of flour, honey, and water, mixed up with yeaft, and fpread into a thin pafte, and fet near the fire till it fhall begin to ferment; and in that flate flould be laid on the part, once or twice a day, if the pain be very great. See Appendix to the Medical Transactions of the College of Physicians, vol. ii.

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

I HAVE only further 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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