A treatise upon ulcers of the legs : in which former methods of treatment are candidly examined and compared, with one more rational and safe, proving that a perfect cure may generally be effected more certainly, without rest and confinement, than by the strict regimen in common use, with an introduction on the process of ulceration and the origin of pus laudabile : to which are added hints on a successful method of treating some scrophulous tumors, and the mammary abscess and sore nipples of lying-in women / by Michael Underwood.

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TREATISE

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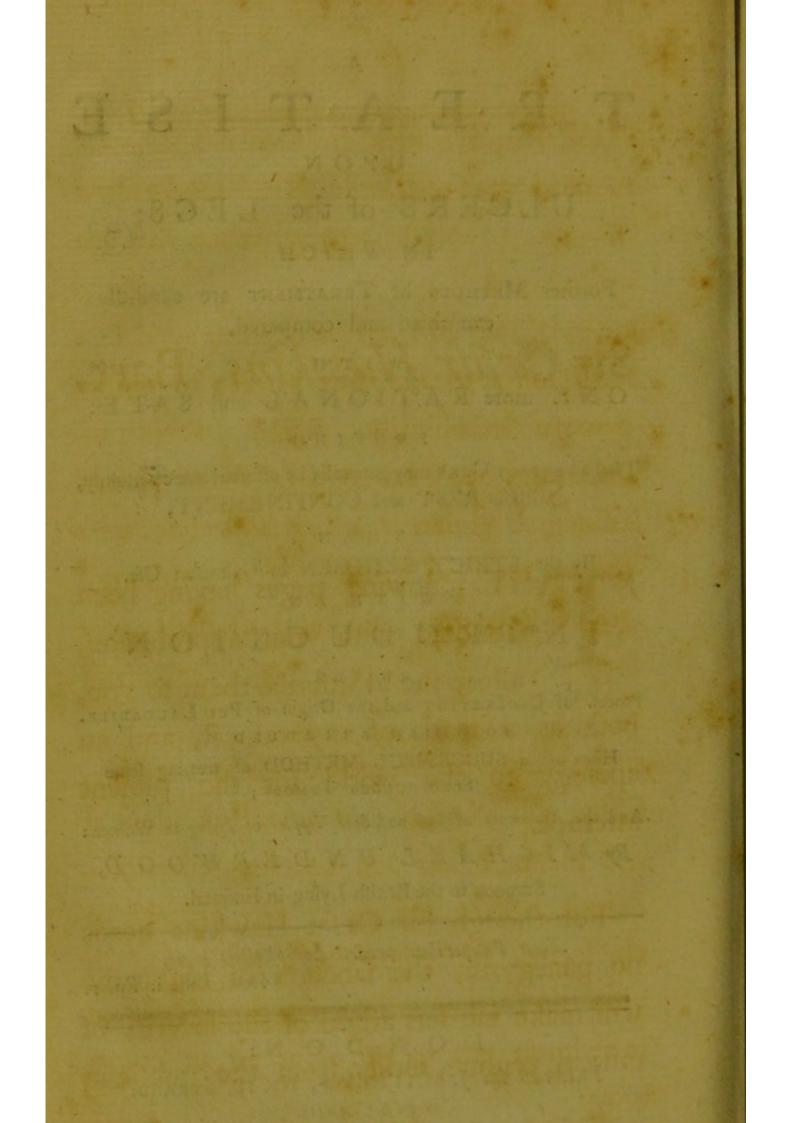
Hints on a SUCCESSFUL METHOD of treating fome SCROPHULOUS TUMORS;

And the Mammary Abscess and Sore Nipples of Lying-in Women: By MICHAEL UNDERWOOD, Surgeon to the British Lying-in Hospital.

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

LONDON:

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with whom his opinion has en the first authority.o T compared

Sir Cæsar Hawkins, Bart. SIR,

HE following pages having been honored with your approbation, allow me to inferibe them to you, both as a mark of my refpect, and an apology to the world for the prefent attempt.

For though Sir Cæfar Hawkins needs no panegyrift, the fanction of his name will make me lefs afraid of the feverity of critical cenfure, either from the public at A_3 large, large, or the medical faculty in particular; with whom his opinion has ever been of the first authority.

I have only to regret, Sir, that the occafion of taking this liberty is not more important. My opportunities of improvement, in fludying under your immediate care for feveral years, certainly demanded fomething more worthy of your protection, than fo fmall and imperfect a performance.

However the nature of my obligations is fuch, as forces me to make this public acknowledgement: not that I mean, Sir, to trouble you at prefent with a formal declaration of those respectful sentiments to which you are no stranger; I am only proud to be included in the number of

your

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your friends, whom the advantage of a more intimate knowledge has infpired with an efteem fuperior to that of common acquaintance.

That you may long live to enjoy the honors and comforts, acquired with univerfal approbation, is the most fincere wish of him who has the honor to subscribe himself,

SIR,

With great Respect,

Your much obliged,

and obedient humble Servant,

Great Marlborough Street, 19th April, 1783.

M. UNDERWOOD.

(. iiv) vour friends, whom the advantage of a more incimate knowledge has infpired with an effeem fuperior to that of common acquaintance "I'llat you may long live to enjoy the honors and comforts, acquired with univerfal approbation, is the moft fincere with of him who has the honor to fubfcribe S I. R. b "gieat Rofped, Your miss's obliged, and obedient humble Servants M. UNDERWOOD.

PREFACE.

Theoform, indeed, in which thefe contra-

正の人行の項号

et from a method of treatment, materially

TO man publishes an opinion to the world, even on the most trivial occasion, without fome view to himfelf, or others, or to both ; and cuftom has eftablished an almost universal law, by which an author is bound either to difcover his real motives, or to devife fome plaufible, and handfome excufe for his own boldnefs. The writer of the following fheets, without affecting any uncommon fhare of philanthropy, would not willingly have rifked the favourable opinion of his friends, had he not been perfuaded, that the good effects of this publication will answer his intentions, and be of fome fervice to the diftreffed. He is encouraged to fay thus much, at least, having already seen considerable advantages arifing

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arifing from a method of treatment, materially different from that at prefent in fashion. And if any improvement can be fuggested, in a branch of furgery confessedly imperfect, (for who will deny that fore legs are difficult of a lasting cure,) no great apology can be thought necessary, for communicating to the world any hints on the subject that may be useful.

The form, indeed, in which these observations are prefented, requires more excuses than the author knows how to make; but he trufts that the plainnefs, or rather homelinefs of their drefs, will not fo far prejudice them in the eyes of liberal men, as to prevent their being examined with candor, and made use of in practice, if they are found to be at all just and rational. A want of regularity and elegance in composition, may with truth in this cafe, be imputed to want both of experience, and leifure to fludy the correctnefs and embellishments of language. He has, indeed, no pretenfions as a writer-but though truth may be adorned by a florid ftyle, or enforced by elegance of argument, the greatest de-. ficiency in these ornaments cannot invalidate facts, nor justify an illnatured criticism, on that which made no part of the author's defign.

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 house, and even common beggars, the most intractable of all patients, and fuch as either for want of proper food, and cloathing, or from their diffolute lives, are the most unlikely of all to be cured. He affects no other merit than this attention to fo limited, and in general fo much neglected, a branch of his profession ; to which he was led, fo long ago, by an inftance that fell in his way of a cure performed with great eafe, and without confinement, by a very ignorant empiric, after two eminent furgeons had failed in the attempt. The knowledge of this at an early period in life, when youth and inexperience prompt to undertake any thing, having convinced him of the poffibility of fuch cures, and led him to the knowledge of many, induced him to turn his thoughts to a fubject, which he has never fince loft fight of. In the mean time, his education under the best of masters, together with his long refidence in one of the largeft, and best conducted hospitals of this metropolis, as well as his attendance in those of Paris, gave him fufficient opportunities of feeing, that for fome caufe or other, the knowledge of compleatly healing

PREFACE.

healing old ulcers in the legs, has been, and ftill remains very deficient and uncertain. The fubject, though of fo great importance to the fuffering individual, has perhaps not appeared of fufficient consequence to eminent furgeons, whose employment has usually been both of a more profitable, and agreeable kind. It is hoped gentlemen of this class, who deferve and poffess the higheft degree of public efteem and confidence, will not think this an injurious fulpicion, efpecially as the mention of it is principally intended, to fave the writer the mortification of having his first attempt thought inferior to the dignity of a first rate practitioner. Besides, any attempt must be laudable to refcue this branch from the hands of quacks and ignorant pretenders, who it must be confeffed, have fometimes got credit in these cafes, where men of fcience and a regular education have failed. And here it may be proper, as the former class of practitioners needs no increafing, to add, that the precise quantities and forms of fome of the applications hereafter mentioned, are not specified, but left to the judgment of the furgeon; who will find no difficulty in proportioning every active and powerful ingredient, to the nature and variety of each particular cafe.

the knowledge of complexed

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 some periodical publication, he could not, in such a channel, so fully support the principles he has laid down, nor justify his deviation from established authorities. He knew moreover, that an attempt had been made in that way, by a gentleman of acknowledged abilities*, which did not feem to gain the attention of the public.

With regard to the few hints on fcrophulous affections, and complaints of the breafts in *lyingin* women, they are equally the refult of experience: how far they are worthy the attention of the public, is cheerfully fubmitted to their confideration.

In concluding this preface, the author begs leave to urge again his good intentions, and to express his hopes, that the fuccess of his plan, may in other hands, be equal to his own; and then he shall expect the fatisfaction of contributing to lessen the difficulties and distresses of many afflicted fellow creatures, to preferve some of

* Mr. ELSE, Med. Observ. and Inquiries, Vol. IV.

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them from leading miferable lives, and now and then, prevent that most dreadful remedy for bad ulcers, the loss of a limb.

E R R A T A.

Page 21 (note) line 1. for affectata, read affecta.

27. Line 3, for clear, read clean.

53. Line 16, for of patient, read of the patient.

53. Last line, dele and.

64. Latin note, for finge. read finge,

66. Last line, dele the.

71. Line 8, for an, read un.

93. Line 3, for and, read And.

120. Line 7, for ruber, read rubr.

120. Line 9, for album, read vitr. album.

27. Line 25, for bealed and are, read and are bealed .-- The author defires here to apologize for a very manifest inaccuracy that was not difcovered in time for correction, observable at pages 56 and 57. Treating there on the fubject of digestion, and attentive only to the mode of Practice, he has inadvertently runinto a popular mode of expression, whereby he has appeared to treat That as an Ef. fect, which might, with more propriety, be regarded as a Caufe. The facts however turn out the fame, for wherever there shall be the laudable difcharge from an ulcer he has in any cafe fuppofed, there likewife will there be a kindly appearance of its furface; or wherever a copious fuppuration is brought on that terminates in laudable pus, the means which produced it, by reftoring a due action of the veffels, can never fail to induce a florid and healthy appearance of the fore, and remove the pain and inflammation that attended it; and on this account can never do any harm ; nor will a profuse difcharge, produced by digeflives, continue many days after the ulcer has become clean.

INTRO-

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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 amufe the reader with theory on the nature of the complaint, any further than it may be neceffary, in order to eftablish the means of a fafe and lafting cure.

In this view, it will be proper to drop a few words upon ulcers in general, and on fome material differences between those now to be confidered, and all other fores; 16

fores; between recent wounds of the legs, occafioned by fome accident, and thofe made on any other part of the body: fome reafon there muft be, for the additional trouble in healing the former, as well as the greater difficulty with which they are afterwards preferved in that flate. This is effentially neceffary in order to form a rational practice, and fo far as this end is kept in view, it is hoped, an attempt will not be accounted fuperfluous.

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, reciting fuch inflammation in a part as fhall incline it to fuppurate, though no external injury was received: fuch are fevers of different kinds. To thefe fhould be added neglect, or mifmanagement, when an abfcefs is formed, by which a fimple wound is converted into an ulcer, or continual fore of the part.

Thefe are briefly the caufes of ulcers in general, and where no fpecific 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 flate and circumflances of the limb, which being a depending and an extreme part of the body, may be regarded as a particular and predifpofing cause. Its being an extreme part, appears to have a much

^{*} Ulcus eft continui folutio ab errofione facta.-GALEN.

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

greater influence than has generally been imagined, or at leaft expressed by writers on this subject, and tends very much to account for the frequency of the difease, and to point out an indication of cure, which in practice has been entirely overlooked.

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

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

The process of ulceration feems to confist in more than a fimple folution of continuity; there is a real loss of fubftance in the ulcerated part. To obtain therefore a more correct definition, I would be underflood to mean by an ulcer, a folution of continuity in a foft part of the body, from which an ichorous, purulent, fanious, or vitiated matter is difcharged; attended with a loss of fubftance in the part.

This or this tendente, diffetentente er ercheger, aufero extra

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* 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

§ 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 muft have confiderable influence in the treatment. It will be quite fufficient to hint at a few of them.

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

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

III. It may be owing to fome fpecific contagion.

IV. The fituation also of ulcers deferves our attention. They may affect the furfaces of parts, in the manner of an eryfipelas; or partake more of the na-

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a materia erodente ortum habens. Differunt nimirum in eo vulnus et ulcus, quod in vulnere faltem est foluta unitas, nihil vero necesfario de parte amissum est; in ulcere vero femper aliquid de parte affecta imminutum et amissum est, 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, disfolutiones et erofiones, a fero extravafato, et corrupto originem ducentes." HOFFMAN, cap vi. § 1.

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

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ture

ture 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 conflictution +, 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 lives freely, or ufes much exercife, it is highly probable the

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

+ SHARP's Surgery. Introduct. page 29.

‡ Ib. page 38 .--- || Ib. page 31.

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fore

fore will break out again. In fuch a cafe, it may be faid the perfon was cured, but he was not reftored to fociety. A very natural inquiry fuggefts itfelf here, viz. Is this the only 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 demonftrated, 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 flightly at this subject, which will bring forward the immediate object of inquiry.

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

It

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

+ See WISEMAN, TURNER, SHARP.

Galen de Ulceribus malignantis Naturæ. Talia enim appeilo, in quibus

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It is ever of the utmost confequence, to separate 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. Ædema sometimes precedes, fometimes accompanies, and often seems to be a consequence of ulcers; but is only one evidence amongst others, of cachexy.

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

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

quibus aut pars affectata tam vitiofo habitu est prædita, ut vel optimum fanguinem, qui nutritionis gratia confluit, corrumpat: aut id quod influit, adeo perversum existit, ut etiamsi pars rectè se habeat, ab ipso tamen solo erodatur. (de comp. med. lib. 4.)

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 coalefeit." Lib. xii. cap. x.

I. The

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

II. In the lower extremities there is diffufed much tendinous or ligamentous membrane. This kind of fubftance, though not void of fenfibility, poffeffes a very fmall fhare of it; its blood veffels are fearcely 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 cacoëtic, or fpecific affection of the fyftem, becomes intractable under the most prudent management, it is highly neceffary to know the cause: Inquisitive 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 will -I will venture to fuppose, that the most probable caufe 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 flate of general flrength; but if the caufe be merely local, our views must be very different. It must then be treated as a diminution of action in the part. Not that it is meant to fuggeft, that those two causes cannot exift together; they very often meet in the fame fubject. But it 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 firengthen the patient, the defired end will always be obtained. There may be a fufficient quantity of power in the conflitution 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 stimulants. But in doing this, it will be well to obferve, that as we have a certain end in view, our means must be adequate. Stimulating applications may be fo used, as to fret or irritate the part, without the least good effect; nay, with very bad effects. If the power and action of the part be not rendered fuperior to the difeafe, every ineffectual effort of nature will increase it, and confequently retard the cure.

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

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not

not entirely confine himfelf, will be difposed to walk lefs than usual, and to give the leg fome little indulgence. The ftimulus, thus irregularly applied, excites the veffels to an increased action; pain becomes confiderable; the furrounding parts are inflamed; and the difcharge 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 less of loss of fubftance, always precedes the shooting of granulations, perhaps only the first part of the procefs is compleated; hence the ulcer is more foul, is deeper, and more extensive than before. All these evils are attributed to the motion of the part, and abfolute reft is deemed a neceffary requifite towards obtaining a cure,-Whether this be as evident as it hath been generally imagined, is a matter very much to be doubted indeed, and is worthy of further inquiry.

§ It appears then to be rational, as well as agreeable to experience, to fuppofe, that from the legs being depending parts of the body, the only, nor the chief obftacle to the cure of ulcers does not arife, but as hath been obferved, 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

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the blood through the more extreme parts, and their confequent tone, being then impaired : and every furgeon knows how much more frequently a gangrene is found to feize the feet or the toes, than any other part of the body. For although the fingers, with their veffels equally fmall, are at a confiderable diftance from the heart, yet the circulation in them is more vigorous, both on account of their veffels coming from the beginning of the aorta, and the continued exercise from their more constant use, The lower extremities being still further diftant, and not fo much engaged, have these difadvantages compenfated by the exercise nature impofed upon them, in the fupport and conveyance of the whole body; for the want of which neceffary flimulus, 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 polition : for here, whilft 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 vigor of the extremities themfelves, (so far from being positively detrimental,) must, under proper management, be conducive to the healing of ulcers fituate upon them. Hence it will appear to be the province of art, to devise fome proper means to regulate the effects of exercise, rather than to aim at a cure fome other way, by fubverting the order of nature,

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and depriving the patient, for a time, of a neceffary mean of fupporting, or recovering his health; which pernicious cuftom, it is prefumed, is one principal occafion of the difficulty in queflion.

§ The nature of the ulcerative procefs next deferves our confideration. When from fome caufe, external or internal, ulceration takes place, a very ufual way of accounting for this folution of continuity has been, that there is a melting down of the foft parts into pus, 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 œconomy, and the obfervations of the moft accurate phyfiologifts.

The perfect folution of a foft part, even when removed from the body, is not eafily effected by art, unlefs it be immerfed in cauftic liquors; much lefs have we ever feen muscular flesh, and cellular membrane converted into a fluid refembling pus. Simple division of a living fibre, does not neceffarily produce the death of

* " Vascula distenta rupta cum dolore, calore, pulsu, liquores fuos effundunt, folvunt, putrefaciunt leviter, folida tenera atterunt, folvunt, fluidis miscent in unum similem album, spissum, glutinofum, 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. Port. vol. i. p. 315.

that

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 discharged by ulcers, differ in their chemical properties from dead animal fibres in a ftate of diffolution, we are certainly not authorized to conclude, that there is a fimilar arrangement of particles. Befides we ought to find the most profuse discharge from an ulcer during the exfolidation of its floughy covering; whereas the reverse of this is really the cafe. An ulcer never pours out fo large a quantity of good matter, as during a few of the first days after its furface has become clear. And every practitioner must recollect having feen cafes, where the dimensions of an ulcer have been increased to twice its fize, in the fpace of a few hours, without fuch a proportionate increase of the discharge, as we ought to expect under the idea of diffolution.

The process of ulceration feems to be a certain act of the absorbent system, whereby in confequence of a stimulus, it takes up the fost parts, and carries them into the circulation*. No anatomist can doubt the possibility of this, when he confiders that ointments, and even powders are readily absorbed, especially where there is a want of cuticular covering. If this

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

+ See Mr. CRUIKSHANK's letter on the absorption of calomel, to whom the world is no less indebted for his indefatigable attention to, and useful discoveries in the absorbent fystem.

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account

account of the matter be admitted, we shall be affisted in understanding the cause of the rapid progress of ulceration, the exfoliation of dead soft parts, and defquamation of carious bone.

§ 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 poured forth at thefe outlets.—The laft-mentioned idea is in itfelf fo improbable, and ftanding unfupported by any decifive proofs, it may be regarded merely as hypothetical.—A few remarks on the former will naturally arife in the further difcuffion of the fubject.

" The most probable opinion," (fays a very ingenious and respectable author ‡) " hitherto advanced, concerning the formation of pus is, that it is always produced

* "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 largest ingredient in the mixture; a little viscid lymphatic juice, and the extremities of the lacerated vessels, which fall off in small parcels, and are converted into a softish and whitish kind of glue." FIZEZ on Suppuration.

"Si fanguis in ventrem effusus fuerit, præter naturam, necesse eft ut suppuratur. Hyppoc. aph. 20. lib. 6.

"Hoc enim parte caro putrescit et exulceratur, et accedentem pituitam et bilem, insuper putresacit, et sit pus." Id. de morbis. Lib. 2.—See also CULLEN.

by

I BELL on the Theory and Management of Ulcers, &c.

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 \uparrow , 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 \ddagger . More or lefs of inflammation \parallel feems abfolutely neceffary to its formation. It may likewife be obferved, that the nature of the difcharge depends greatly upon the healthy, or unhealthy ftate of the fore. 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

[†] " May we not therefore conclude, that the ferum is perpetually oozing into ulcers, but that from the heat of the part, and the volubility of our fluids, it is all abforbed or evaporated, excepting this matter that remains in the fore, in the form of pus." Sir JOHN PRINCLE, Appendix, page 72.

• If the increased impetus of the blood in an inflamed part dilatesthe exhalent veffels to such a degree, that they pour out an entire ferum,—under stagnation, the ferum may undergo a particular change, by having the gluten prefent in it, changed into a white, opaque, moderately viscid, mild liquor, which we name pus." 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.

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originally

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originally the most bland and falutary qualities §. Not 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 lay likewith be objerved.

S 21 30 33 30

§ It is not neceffary, that a part shall have precifely what we understand by a glandular structure, 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, which is perfectly infipid ; and confequently, can be little more than a mucilage and water. Whereas ferum contains neutral falts in abundance; fuch mucus therefore cannot be effused ferum. If it were merely ferum, it would be more irritating as its confiftency increased. the reverse of which is the cafe. When morbid fecretion takes place, as in catarrh, gonorrhæa, &c. the effects of the neutral falts in the ferum poured out, are pretty evident. Now, these difeases cannot increase the quantity of faline matter, confequently, we must feek for the caufe of this acrimony in the different action of the veffels .-Thefe varioufly excited, by external or internal flimuli, to irregularities in their action, may likewife affift us in our inquiries after the caufe of the various appearances and qualities of pus, and of the difference between that and fuch morbid fecretions from an inflamed furface, as affume a purulent appearance.-With regard to the latter diffinction, it may be worthy the attention of physiologists to confider, 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 fubstance may not be effential to that particular fecretion.

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 puswill appear; but a thin, ill-looking fanies is fpread over the furface *.- In fhort, the formation of true pus, and the putrefactive fermentation of animal fubstances, bear no refemblance to each other, fince pure pus is perfectly inodorcus, whilft the other emits a volatile alkali. Nor do we find, that matter discharged from a wound bears any regular proportion either in quantity, or quality, to the fuppofed degree of fermentation. If we only attend to the different aspect 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 vef-

or more, of matter has run out on the givi

the measuments. In fuch co

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

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fels, as the most probable cause of this difference, appears, by no means, to be an unreasonable conjecture +.

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But the idea of true pus being a diffolution of the muscular and cellular substance, &c. may from its great popularity, 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 fubstance 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 greatest part of which however, seems 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 case of large imposthumations, fuch as the ploas abfcels; from whence a pint, or more, of matter has run out on the giving way, or opening of the integuments. In fuch cafes, has there been a destruction of muscle, veffels, cellular and adipofe membrane, equal to the quantity 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

[‡] How frequently is it in our power, to alter both the appearance and the quantity of matter difcharged from a fore, not only by medicines, but merely by external applications?

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

muscles

muscles separated one from another, and the cellular membrane torn away by the weight of the fluid; or fometimes a muscle divided longitudinally, or its belly eaten through ; but the idea of a whole pound of organized parts being loft, or melted down into matter, is really much more improbable than any thing that has been advanced concerning the formation of pus, or doctrine of the absorption of parts into the constitution. For whatever has been faid on the latter, is merely to account for a lofs of parts, which fometimes actually disappear 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 disappearance. But, moreover, in large collections of matter, there is not only a prodigious difcharge on the first bursting of the abscess, but it often continues immoderate for days, and even for months, till the patient is deftroyed by it. But upon opening the body, only a very fmall portion of muscle appears to be loft, and there is little, or no more deficiency of adipofe membrane in the part, than throughout the reft of the body the whole being in fuch cafes 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 ;

Il Page 27.

--- a queffion I have accompted to anfwer, and which

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

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

Moreover, if the diffolution of organized parts, does not furnifh a very confiderable portion of the purulent difcharge, it can fupply only a very fmall part of it, as is manifeft 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 abfectfies. And if folittle of the pus can be furnifhed by the diffolution of folid parts, and its true purulent appearance be not occafioned thereby, the difficulty is not removed, and the queffion returns, viz. how is pus formed? ---a queffion I have attempted to answer, and which

§ BOERHAAVE, Mr. POTT, &c.

for any thing that has as yet been advanced to the contrary, may prove full as fatisfactory and rational, as any other account that has been given of the matter.

When the conftitution has, at a certain time of life, been long accuftomed to the prefence of an ulcer in fome part of the body, practitioners have been much divided about the propriety of attempting a cure. It has been deemed improper to heal it, without fubflituting a drain in some convenient part, in its stead. This opinion is founded partly on theory, partly on obfervation. If we regard old ulcers as drains, or outlets for vitiated humors *; the evacuants of a confiderable quantity of fluids, where retention must diforder, or overload the fyftem, and induce plethora +, &c. fuch ideas must naturally produce a doubt of the expediency of effecting fo important a change. 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 :- Though the facts cannot be denied, the explanation given of them may be called in queftion ||.

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

+ See BELL on Ulcers.

1 Le DRAN's Obfervations .- SHARP's Surgery, Introduction.

|| Ulcera diuturna et inveterata non fine periculo curantur, nifi corpus diligenter purgetur, et victus ratio bona observetur; cujus rei

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We know that in many cafes, very fufpicious a priori, ulcers have been dried up, not only without bad confequences, but where very confiderable advantages have enfued. Whereas, fatal accidents have fometimes taken place after the cautious healing of more recent fores in apparently good habits of body ; which would fcarcely have been attributed to fuch cures as to their proper caufe.- The post Hoc and propter Hoc, it is well known, require a judicious diferimination .- Where, indeed, there has long been a very profuse discharge of matter, a ceffation of the accustomed evacuation may have fome influence. But if particular cafes are excepted, it is more than probable, that the effect of ulcers upon the conftitution, is not to be imputed to the quantity, much lefs to the quality of the matter difcharged by them; which it is likely, depend on the flate and action of the veffels of the part, where at leaft, there is no fpecific contagion. No opinion is more popular, than the existence of humors in the blood ; and perhaps very few opinions have lefs foundation in fact. The ferum of blood may differ in confiftency, and contain more or lefs faline particles; the red globules may exift in greater or fimaller quantity ; the coagulating lymph may vary in its relative propor-

rei exemplum habet Gal. Fabricius, de quodam viro qui cum ulcus inveteratum in crure finistro ab impirico àµstodo- curatum fuisset, post menses aliquot pleuritide in finistro latere correptus, atque in de mortuus est, et morbo durante *talia* expuit, *qualia* antea ex ulcere effluere folebant.

SENNERTUS Lib. 5 Prognoffica.

tion

tion 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. Are the effects of ulcers upon the conftitution, by any means, proportionate to the quantity of matter difcharged by them? Do we not fee, that the fpecies of ulcer, and its feat, very often determine its harmlefs, or mifchievous tendency? Were we always to form our prognoftic of the termination of ulcers, from the quantity of furface they occupy, or the fluids they difcharge, every day's experience would prove the fallacy of fuch a prognoftic. Small ulcers (unattended with caries of the bone) may bring on hectical fymptoms, and the amputation of the whole limb fhall fave the life, and reftore the health of the patient.

§ The ill-effects which ulcers have upon the conflitution, feem to arife from irritation, and the confequent general flate of exertion into which the fyftem is thrown. When the difcharge is very profuse, inanition is produced; but fimple inanition is not a proximate cause of hectic fever; nor of fymptoms of irritation *.

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* Wounds of the tendons, ligaments, cartilages and the cavities of joints, are more liable to be attended with fymptoms of irritation, than the inflamnation of other parts : by fuch fymptoms therefore are meant,

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The fystem being kept in a perpetual state of tension, by the conftant stimulus of an ulcer, and nature fruitlessly exhausting herself 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 heath, 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 humors. It is a fact pretty generally admitted, that however plentifully a bliftered part may pour out its ferum, it is often more advantageous to heal the fore, and apply a fresh stimulant, than to keep it open by mild digeftives. If the good effects of blifters, therefore, be admitted upon these principles, why reject this reasoning in the case of ulcers, which may not improperly be termed perpetual blifters or iffues ?

The effects of ulcers upon the conflitution in general, being thus hinted at, the main queftion may be re-

meant great depression of strength, anxiety, frequent respiration, quick and small pulse, a tendency to delirium, or spasmodic affections of the muscles. These symptoms do not indicate a disease of the general system, but depend upon the presence of an irritating cause; and when the cause is removed, the effect immediately ceases.

* Natura enim, semper solicita est in conservatione individui sui, morbisquè sesse opponit; sed prout valida aut imbecillis suerit, aut victrix evadit, aut succumbit. HILDANUS, Observ, Chirurg. 77fumed,

fumed, viz. Is it always proper to attempt the cure of ulcers ? Were a general and direct answer to be offered, it might be given in the affirmative .- If a cafe occurs (which is not improbable) where upon the whole, it may be judged a leffer evil to let the ulcer remain, than to attempt its cure ; yet if its extent of furface be very confiderable, it will be prudent to leffen its dimensions. To this may be added, that as the feat of an ulcer, however small, may be in a very inconvenient part of the body, an iffue + may, in many fuspicious cafes, be fubftituted in its flead 1; 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 fystem, there can feldom be any reasonable objection against healing them.

The preceding obfervations are natural, they are founded on facts, and it is hoped, they will fupport the inference intended to be drawn from them. Many of them almost infensibly occurred to the author in the course of his practice, nor did he difcern half their force, till repeated experience constrained him to attend to them, and forced on his mind fuch reflections as led

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

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

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to fupport them. Be it obferved, however, once for all, that fuccefs preceded his reafonings, and if he has failed in his theory, the facts ftand the fame, and every man is left at full liberty to give a better illustration of them. He concludes it, indeed, far fafer, even induftrioufly to invent a fpecious theory in fupport of experience, than to found a practice on mere metaphyfical reafonings, however ingenious they may feem. If he has erred, he has erred on the fafe fide, and cheerfully fubmits both his principles and practice to the judgement of others.

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A TREA-

TREATISE

UPON

ULCERS of the LEGS, Sc.

HE intentions in the treatment of ulcers on the legs, have been principally two; namely, to bring those into an easy, harmless state, whose perfect cure ought not to be attempted, or cannot be obtained: or secondly, in the most safe and rational way, to accomplish it in every ulcer not under those circumstances.

Whether there be many fuch cafes as the former, where, at leaft, there is not manifeft difeafe of the vifcera, I fhall not take upon me any longer to difpute: and however numerous they may be, the known rules of art are fully fufficient for every thing that feems to be expected from it. I may, however, venture to add, that perhaps nothing will co-operate fo much with the firft-named intention, as the bandage hereafter hereafter to be mentioned, drawn moderately tight. It is the latter then that will be the fubject of these pages, including some of those which have been judged incapable of cure, or of being long preserved in that state.

To purfue this intention more perfectly, it will be neceffary to take a brief view of the most usual methods of cure, with the internal remedies on which furgeons have at different periods principally relied. And here a large field for difputation would open, if notice were taken of every thing that has been in vogue, or has had fome warm advocates even from the prefs. But I shall only glance at fuch things as have not been generally adopted, and shall chiefly confine my obfervations to those in great credit amongst furgeons of reputation, who the author of this little effay wifnes may peruse it with the fame degree of candor, that he has meant to exercise of modefty and respect, in the liberty he has taken in differing from them in opinion. He cheerfully acknowledges the fuperior abilities of many of those who may be his readers, as well as their more extensive experience in the general practice of furgeryhe thinks, however, he has fome improvements to offer on the article of ulcers, though there is perhaps no other, in which he fhould not think it fufficiently honorable to fay, I præ, sequar, fi non passibus æquis.

Amongst the internal remedies once in great repute with fome practitioners, are the SOLANUM, NITRE and CICUTA; of the latter, which has been tried in fo many complaints, little more need be faid in this day, than that it hath failed of that general fuccess we were once made to expect, in any of those for which it was at first fo

fo highly recommended; though it is well known to many people, that the materia medica has been enriched by the addition of it. Although an uncertain medicine, it now and then proves a moft valuable remedy. In the hands of judicious phyficians, and particularly thofe great ornaments of their profeffion, Dr. Warren, and the late Dr. Fothergill, many fevere anomalous complaints have been immediately relieved by it *, after having withftood every rational means that could be thought of.—The cicuta, however, is no fpecific for fore legs, and though it may have its use as an anodyne, in a few cases hereafter to be mentioned, it will be fufficient to observe here, that it hath done but little in the cure of ulcers of any kind.

The SOLANUM, I believe, has been long exploded, as a remedy not at all to be depended upon, and would not have been mentioned here, if great things had not once been faid of it. It appears, however, to have had its ufe in fome cafes, which I was witnefs to many years ago, when houfe-furgeon to St. George's Hofpital, but it is certainly much too powerful and uncertain a remedy for general ufe, and there never was found any rule

* Of this, the writer of thefe pages was perhaps one of the moft fortunate inflances, when under the care of Dr. WARREN for a moft fevere and painful affection of the face. And he hopes he fhall not offend that eminent practitioner, by taking this opportunity of publicly acknowledging, the very great obligations he has been long under to his friendship and fervices; and as, by no means, the least of them, that he has been more than once, the kind inftrument of prolonging the valuable days of his nearest relative, and choicest comfort in life,

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by which to judge of the probability of its fucceeding, unlefs it may be faid in cafes attended with great pain; and herein it is not only far lefs certain than opium, but much inferior to the cicuta. It may however, be 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 regardful of every thing that promifed relief in these complaints, I was readily difposed to attend to it. After a fair and re-. peated trial of it, I can venture to fay only, that it is -likely to be useful upon the lenient plan, as it certainly co-operates with the intention there purfued, of reft, evacuations, &c. by its known quality of leffening fenfibility in the nerves of the ftomach and the general fystem, and thus making the fluids circulate more flowly: but it has been observed +, that the cure of ulcers, when accomplished by fuch means, is feldom permanent. Most of those which were large broke out again whilft I perfevered in the ufe of it, which I have fince cured on another plan, as I believe, without danger of relapse. Befides, the poffibility of fuch a medicine, in large dofes long continued, producing fome unpleasant effects in certain constitutions, may be confidered as another objection to its general use. It is indeed a well known and powerful diuretic, but when taken in the large dofes prefcribed, its temporary good effects, I apprehend, are not fo much to be attibuted

* Dr. Rowley on Ulcers in the Legs.

+ Vide the Introductiin.

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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 where an inflammatory diathesis prevails in the habit, or perhaps the limb only is greatly inflamed; nitre is in such cases a most powerful medicine, and may be used together with gentle purges, for a certain, but probably short time, to advantage.

Before I proceed to make further inquiries into the ufe of internal remedies, it may not be amifs to take fome notice of other modes of treatment, which might not be thought worth mentioning, but for their great reputed fuccefs.

One of these confists of frictions, and though it may be accounted in some degree empirical, probably some good may have been done by it. And it is far coincides with the present plan, as it proves a stimulus, supplying the defect arising from the languid circulation in the extremities. It will thereby liberate the parts, and open the fine vessels terminating on the skin*; but there is something so painful (as I am told) in the operation, and so inelegant and inartificial in the mode, that no surgeon will probably ever adopt it.

There are however people in London, who effectually cure ulcers in the legs without confinement, or

I seture now to force surface remarks on it to oal re-

d that confine inviel to those in more sent

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

HIPPOC. Officin. Med. regulation 46

regulation of diet, fome of them with, and others without the ufe of tight bandages; 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; fome of which I have attended afterwards, which now remain perfectly well.

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. Amongft thefe, the moft remarkable that has come to my knowledge, is that practiced by a refpectable gentleman not of the profession; and should he think proper to make the public acquainted with his method and fuccefs, it is prefumed that men of liberal fentiments will think themselves indebted to him.

I return now to fome further remarks on internal remedies, and fhall confine myfelf to those in more general use, and still in great reputation with the best practitioners in surgery.

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, from the various fecretions, in a few inftances carry off fomething that has been injurious to the habit, and may especially keep it from the wound, and from counteracting the furgeon's defigns; but I am fatisfied, 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 shewn in the fequel of this work. And every candid practitioner will allow, that of all the cafes of fore legs, that return fo frequently to the hospitals, the greatest number is from those who were cured under a course of mercury : nor is it even probable, that ftrong and laborious men, whole fores have been healed by the means of fo debilitating a plan, should continue long in that state, when they 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 just as much as other medicines of this clafs. It may have one advantage of them, however, by acting

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

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as a ftimulus to the habit, though in this view, the corrofive fublimate is a preferable medicine, not being fo likely to purge, and is often of great fervice in the cure of these ulcers, which so often happen to men whose habits have been tainted with lues venerea.

PERUVIAN BARK is directed in the cure of ulcers on the legs, as it is also of many other fores, and is doubtlefs a very valuable drug. In the cafes before us, and perhaps in all others, it acts as a tonic, and as fuch, often produces wonderful effects ; neither phyfician nor furgeon would willingly practice without it : but in the present instance, 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 fland in need of affiftance to bring an ulcer into a good flate; it may then, in general, be foon difcontinued, as fhould every other means used 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; for it is a general rule, with very few exceptions, that ulcers on the legs fhould be fuffered to discharge as much, and as long as they are disposed to do, which discharge should lessen only in proportion as they diminish in fize : but of this, more will be faid in its proper place, whilft I add a few words on other internal remedies in pretty general use. In one of the

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

most antient practice ||; and this I am ready to do both on the prefent, and every other occasion, when I shall be found differing from gentlemen, who have made furgery their fludy and practice much longer, and to more advantage than I have pretended to .- But, amicus Plato, amicus Socrates, fed magis amica veritas .- To yield to any authority, would here be criminal. Facts muft, and will ftand .- 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 difcharge, only in proportion as that furface diminishes .- This is the work of nature .- 'Narwy qu'ris ialeos &-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 difpofe them to remain fo; nay on the other

See HIPPOC. lib. de humor. TURNER, SHARP, and HEISTER on ulcers on the legs, the last of whom more particularly advises frequent purges to carry off the foul humors; forgetting that a continued recourse to them, will carry off the good as well as the bad.

§ HIPPOC, EPIDEM. lib. 6. § 5.

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hand, I venture to affert, that the long continued use of them is needless, and even prejudicial, in the cure itself, as is every other means of lowering the strength, and for the present impairing the general health of the patient.

Another means in great repute, both with former and modern practitioners, is the use of alterative medicines. -What virtue fome drugs may be poffeffed of, it doth not perhaps become a furgeon to thruft in an officious opinion, 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 fyftem, will be difputed by no man of practice either in medicine or furgery ; though there are certainly very few, that act specifically on any difease, or induce any such change in the blood, as that term is defigned to imply. There are cafes and conftitutions, it is granted, that require medicines to affift the healing of wounds, but in fpecific contagions excepted, we have little reafon to think, that there are any deferve 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 therefore, the general health be attended to, and fuch medicines occafionally directed, as are likely to promote it-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. Thereader's attention is drawn next to the diet to which fuch

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 advantage of fuch a diet will be fhewn in another place, at prefent I shall confine myfelf to what is judged to be improper, and shall therefore briefly point out the difadvantages of an error in this refpect. A low, and very limited diet, by its effects in weakning the conftitution, together with reft and purging, tends to keep up that indifposition to heal, constantly 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 ftand, and accordingly very rarely continue for any length of time. In many

patients

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^{*} Modicus cibus et aqua omnibus ulceribus conducunt. HIP-POC. de Ulceribus.

See HEISTER, TURNER, and more modern writers on this fubject.

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patients, and efpecially the heedlefs, and often abandoned amongst the poor, who foon return to their old and very different ftyle of living, the yet tender cicatrix is unable to withftand this new impetus of the fluids, the confequence of which must be plain and obvious, without adverting to other confiderations. Indeed too applicable to this and other circumstances of discipline, in the management of fore legs, is that univerfal maxim, omnis fubita immutatio periculofa; for indeed nature is abhorrent of 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 nonnaturals, 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 reft, and an horizontal polition of the affected limb, has long been a fine qua non in the cure of large and old ulcers on the legs, both amongst the ancients and moderns \uparrow , and though

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

CELSUS, lib. i. cap. 3.

⁴ Stare autem ulceri minime conducit, præfertim fi quis in crute 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

though it may feem bold, yet it is the leading defign of this publication to attempt to fet it afide, at leaft to propofe a method of cure without it, better, more rational, and lafting. And here it will doubtlefs be fuppofed, that every idea of neceffity, or peculiar indication is excluded, fuch as fever, local inflammation, &c. which certainly demand a temporary confinement; and that the objection is limited to the fimple idea of reft of the part, in order to facilitate or perfect the cure. Whereas, the frequency, I had almost faid 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 pofition of the affected part, and the diet of patient, I fhall proceed to make fome obfervations on 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 invigorate and warm at the instant, tend greatly to relax the open mouths of the fine vessels, to destroy the tone of the muscular fibres, and induce and a

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

"Above all things reft, and an horizontal 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. Introduction, p. 38.

flabbinefs

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flabbinefs of the fkin over the whole limb *; thus laying an additional foundation for ulcers healed in this way, to break out again. The ufe of them likewife generally obliges the patient not only to reft, but to keep in his bed \$\phi\$, 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 ufe; an occafional recourfe to them, efpecially in the commencement of the cure, and in fome inflances hereafter to be fpecified, may be fometimes, though not very frequently neceffary.

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 those on the legs. For though, like the former, they may fometimes, with the affistance of reft and epuloties, bring the skin over the furface, yet they very often leave the diseafe 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

* See Bell, part 2. §. 2. + Id.

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any hitherto defcribed. Indeed the fuccefs has been abundantly greater than was at first expected, and its fimplicity cannot fail of recommending it in preference to any other, if it were poffeffed of only equal advantages. 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 relifhed by patients of any class, is furely an object highly worth attending to; fo that very little need be added, if the rationality and fafety of the method, can be made equally clear with its certainty and ease.

In the treatment of ulcers, two things are principally aimed at, whatever are the means by which we defign their accomplishment; first, to bring the fore into a good condition with respect to its appearance, its difcharge, and the fenfations of the patient; and then fecondly, to induce its furface to dry up, or form a cicatrix. 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 skin, unless 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 ufually takes place at the time, or very foon after the fore puts on a healthy appearance. To these intentions a third may be added, which enters peculiarly into this plan, which is to heal them by fuch means as shall be most likely to prevent a return of the complaint.

To accomplifh these intentions, there is one grand leading idea equally conducive to each; this I shall

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therefore fpeak of without a precife reference to the indications laid down, or taking up the reader's time by an ufelefs affectation of fyftem and mode, which has been of late fo juftly exploded.

An ulcer is here fuppofed to be unattended with much topical inflammation, or uncommon pain, and without any febrile diathefis in the habit. Here the principal intention is to procure, and keep up a copious difcharge, without any apprehenfion, in general, about the time it may continue, or the effects it may produce; the former will not be much longer than the ulcer is in a foul ftate, the latter, (it will be fhewn) is the very object in purfuit; fince the 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*. On the other hand, where there has been great, and long continued pain,

* " 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 tranflated 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,

and fome confequent inflammation, the copious difcharge produced by the means about to be prefcribed, ufually removes these troublesome symptoms . And though the pain should be increased for two or three days, it will not be fo constant as before, and after that period rarely returns, unlefs it be neceffary to have recourse to some feverer applications; which though they may create a painful hour now and then, will amply repay the patient at laft. Should it be urged that fomentations and poultices are proper means to remove inflammation t and pain, I must beg leave to remind the objector, how many cafes he has feen, where the pain from finall ulcers has refifted these applications for a long time together; whereas, I find fimilar cafes yield in a few days to the treatment here recommended. The difcharge then is chiefly promoted by two things, the use of very powerful digestives or suppuratives, and the fame degree of moderate labor and exercise to which the patient has been previoufly accuftomed; to obviate

What HIPPOCRATES observes on recent wounds, experience proves to be fully applicable to ulcers on the leg.—At vero recentia ulcera omnia, tum ipfa, tum circumfitæ partes minimè inflammationem incurrunt, fi quis quain vitifimè fuppuret, et pus ab osculo ulceris non interceptum fupprimatur." De Ulceribus.

See alfo WISEMAN's Surgery, book 2. ch. 4. obfervat. I.

4 By inflammation is here intended, not fo much the true phlegmonous kind, as a fpecies of eryfipelatous inflammation, often the confequence of great pain, and thin acrid difcharge, which fome ulcers on the tendinous parts of the leg frequently furnish.

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the inconveniencies of which, a very tight bandage is to be used. Indeed the advantage of the bandage hereafter to be defcribed, cannot eafily be credited by those who have not been acquainted with it, or by not expecting enough from it, have not had recourse to it on every proper occasion *.

What regards the treatment of ulcers may be ranked under four general heads, external applications, bandage, exercife, diet and medicines. Of the first it will be difficult to make any exact, or regular arrangement; but it may be faid in general, that they confist of digestives, detergents, escharotics, and a certain kind of aftringents.

The digeftive in moft cafes cannot be too firong, 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 scarce ever induce it; especially, (however incredible it may appear) where exercise is freely allowed; which by its tendency to promote the discharge, so far counteracts inflammation. And I cannot help adding, that furgeons may probably at first be furprized, how very powerful such applications may be, and how long they may be continued, without occasioning much pain after the first two or three days.

* See Thoughts on Amputation, by Dr. KIRKLAND.

The precife form of any fuch digeflives, it would be thought trifling to infift upon; the Pharmacopæiæ of London and Edinburgh contain them; fome one of the more active among thefe, 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 lafting cure; though the patient fhould have been fubject to fore legs for a number of years, and never eafy a month together, after having been repeatedly healed in the ordinary way.

But before I proceed to particular cafes, it will be found proper to ftate fome of the advantages of this plan, and to obviate the objections that may arife in the minds even of eminent practitioners, against fo free use of the remedies proposed, especially as so much is expected from them, as to occasion the difcarding fo many other means which custom has stamped with an almost facred authority.

I can forefee no formal objection to be made againft what has been called very powerful digeflive, and fuppurative ointments. Such made of the warmer gums, balfams and oils, are in conftant ufe among furgeons; And if I have intimated, as I mean to do, that they cannot be too powerful (if calculated to promote digeflion) and ought to be longer continued than is commonly done, it is on account of the more inert ftate, and weaker circulation obferved in thefe parts, and their difpofition to break out again into a fore, if too precipitately healed. It is to prevent this, that

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the discharge is directed to be kept up as long as nature is disposed to it, instead of having early recourse to drying, or healing applications, as they are called, in order to haften the cure; and for which, in the greateft number of cafes, there will be found little occafion on this plan. thee of all the south

But to pass on to things more liable to objection, fuch as stimulating, and corrosive applications. Here I wish first of all to obviate in part the force of a principal objection, that they occafion pain (which however, as hath already been faid, they often remove *,) by obferving further 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 ftate, which will very well endure them, and are rendered very tolerable at the worft, by means of that exercife fo continually inculcated. I am conftantly told by patients to whom they have been the most freely used, 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 dref-

* See WISEMAN on Ulcers with Pain. Chap. 4. obferv. 2. book z. gail precipitately healed. It is to pre-

fing in this manner frequently fuperfedes the neceffity of many repetitions of it, in a more moderate way.

Another objection may arife from the ftimulus, fuch applications will occafion, endangering inflammation, and rendering an ill-conditioned fore ftill more obftinate, 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 ftimulus *, and it has been faid, are not eafily provoked to inflammation. I have applied the red precipitate to fores exquifitely tender and painful, discharging nothing but a thin ichor, which has covered the furrounding skin with heated pimples, and small ulcers, and that after trying lenient applications to no purpofe; the precipitate has immediately changed the appearance and difcharge of the fores, the furrounding skin has lost its unpleafant aspect, the pain has been removed, and the ulcer, when fmall, been nearly filled up in a few days.

Befides objections taken from the pain, and other effects of fuch evident ftimuli; it may be further remarked against the quantity and manner, in which fuch applications are used, as well as the intention itself, that large furfaces, being thus repeatedly and rudely de-

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

ftroyed,

ftroyed, 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 fhall not on this occafion flay 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 fuch an ufe of them, muft urge the neceffity of obtaining, in many cafes, a new furface; without which, though the ulcer may fometimes heal up, under frict regimen and reft, it will moft probably break out again, when the patient returns to his ufual diet and exercife.

Befide the arguments that have been offered in defence of fuch applications, as create a more than ordinary irritation, or feem disposed to increase pain in the ulcer, there are not wanting obvious facts to support them; it being univerfally acknowledged there are many cafes, even where a kind of inflammation attends, in which they prove more fpeedily useful than any other applications. I might particularly inftance the fmall ulcers on the gums, and infide of the mouth, faid to arife from an affection of the ftomach, which are generally cured in few days, by a little borax, burnt-alum, or a lotion of diluted 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

tendency to heal them. So alfo the true fcurvy on thefe parts, will bear, by degrees, the undiluted fpirit of falt *, and is cured by it, when bland applications would 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 to cure when treated with lenient applications, are frequently dried up in a very fhort time, by a few flight touches of the lunar causfic; which by deftroying fome little inflamed gland, removes the fource of the evil at once. Such are very frequently met with on the infide of the lips, which when rubbed with the caustic, cease to be painful, and are healed before the little efchar is thrown off.

In regard to the bracing, or aftringent applications I mentioned, the propriety of them will appear beft in their proper place. It will only be neceffary at prefent to remark, that these 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 deterfive nature ; neither are they made of such a strength as 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.

I come next to the fubject of bandage.-It may be an empirical, but is no bad argument, when the in-

* See VAN SWIETEN'S Comment. on BOERHAV. and LIND on the Scurvy.

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tegrity and common fense of the speaker is not fufpected, to fay, that facts are ftronger than reafoning ; they are flubborn things even to a proverb, and they fpeak in favour of every 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 its poffible illeffects on 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 these 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 all the apprehended ill-confequences *. And whilft

* See WISEMAM's Surgery, Book 2. 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 hardened limbs, as well as refpecting the fafety of healing up fome ulcers in very fufpicious habits of body, that I have

+ Aut famam sequere, aut sibi convenientia finge. Scriptor.- • HORACE, de Arte Poetica.

whilft that is, on this plan, encouraged by digeflives and exercife, it will abate only in proportion as the ulcer diminifhes in fize; which, as will be fhewn prefently, is permitted, rather than compelled to dry up. Befides

have been prevailed upon, in this inftance, to wave my prejudices against introducing cafes on disputable points. To avoid breaking in upon the fubject, however, I have thrown it into a note, that the reader may pass it over if he pleafes .--- A young woman, whose mother had been afflicted with a painful tumor and hardnefs of the leg, a fchirrus in the breast, and afterwards died of a cancer in her mouth; had herfelf a fimilar complaint of the leg from the age of eight years. On the first appearance of the menses, this became more painful and enlarged, and foon after, confined her for fome time to her bed ; it was then fomented and poulticed, and the was let blood and purged, which took off the inflammation, but the hardness and tumor remained as before. A linen roller, and afterwards a laced-flocking were applied, which kept it eafy for three or four weeks, but her fomach being affected, fhe was obliged to lay them afide. In a fhort time, the leg became painful again, but did not inflame for fome years, when the was again confined, and treated as before, but never got rid of the hardness and swelling, nor was ever long together perfectly free from the pain .- She was always eafieft 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 tumor abated, and fhe could bear to prefs, and beat it with her hand, in a way fhe had never before dared to attempt. About the end of the fourth month of geftation, her ftomach complaints confiderably abated, and her leg became inflantly painful; and in two days was very hard and enlarged, was confiderably inflamed, and had a little oozing from under the fkin.

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Befides thefe things the kind of roller is to be confidered, which ought to be made of the thinneft Welchflannel, not thicker than coarfe linen, with advantages no linen can have; it not only being fofter, fitting eafier,

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.

Taking in the whole of her cafe, I was very unwilling it fhould come to a fore, but (as fhe could not keep the part fupported) I was fearful I could not prevent it, which I was very defirous of doing on account of her bad habit of body; or fhould otherwife have had no fears about treating it like other inflamed ulcers on the leg, whenever the fkin fhould compleatly give way. I therefore did what I could to prevent the further cracking of the fkin; but without abfolute reft, this was fearcely to be expected, nor is it probable, even that could have prevented it. It accordingly gradually became fore, and was painful to the higheft degree, fo that fhe often fat fereaming out aloud for hours together, unable to put her foot to the ground, tho' the fore was dreffed only with ceratum alb. or a faturnine cerate, and fometimes with different 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, that 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 the fize of the fore, and was daily more painful.

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cafier, and making no plaits on the skin, but is elastic to a very confiderable degree. This is greatly increased by its being torn across, and sewed together felvagewife, (the hard selvage thread being first cut off) whereby

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 eafier thoughout the cure, except for fome time after it was dreffed, when fharper applications had been ufed, but continued to fpread till the ulcer became clean, and a copious difcharge was produced, which did not exceed feven or eight days at the moft. After this, it became eafy, difcharged laudable pus, and in about a fortnight's time, it 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 reason, she 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, she was not only permitted, but compelled to walk out, and always came home eafier, though the often walked further than she 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 fome times gave great pain for an hour or two, proved an occasion of speedier ease on the whole, as it destroyed the foul furface, produced a laudable discharge, and brought the fore into a defirable flate much fooner than it could otherwife have been ; when this application was first made use of, the ulcer discharged a caustic fanies, that corroded wherever it ran, and the furface was to fenfible, that the patient could not endure the flightest touch of an armed probe, to wipe off the matter. It was

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by the roller is made to yield to every motion, and varying fhape 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 respect, and be able to walk with comfort, from the first hour they were put on. To this fact numbers can teftify, and it is from experience I can fay, it will be found no fmall improvement in rollers for the legs, that flannel is fubftituted for linen, and that they are made up in the manner here recommended. I fhould neither speak 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 publish my thoughts to the world, as containing any improvement, if not fufficiently fupported by facts, or if there was any room left to doubt, upon what fuch favourable events had turned .- Perhaps thefe, and other advan-

only a few weeks in getting well, the hardnefs and tumor of the limb fubfiding as foon as a copious fuppuration took place ; and before the ulcer was healed, the leg was, I believe, quite as fmall as the other, and has continued fo ever fince, though there was no remarkable return of the ficknefs, and fhe has now lain-in above a twelve month. Neither did 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. 4.

tages * of this bandage, may be explained on the following principles.

I. The moving foft parts are not only kept warm, but receive very 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.

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

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

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

* The manifest advantage of the late improvement (if I may be allowed the expression) in great operations, arising from immediately bringing divided parts into contact, if duly confidered, will afford another proof of the use that may be made of bandages in the cure of wounds and ulcers. See ALLANSON on Amputations.

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I have faid fo much on this head, becaufe this, as a general practice, is fo much out of fashion, though once in great effeem with eminent furgeons, and particularly Wifeman, whofe contrivance the laced-flocking feems to have been. The antients indeed made use of rollers much oftener than we do, and apparently to confiderable advantage, but they fpeak of them only as retentive bandages, or for bringing divided parts into contact, and to affift the more fpeedy clofing up of deep ulcers after a proper digeftion; or fometimes indeed as expulfive, to prevent fluxion to a part, but their bandages were ill calculated to anfwer the end, and were never applied fo tight as Wifeman recommended, nor with particular reference to the legs. Wifeman himfelf, however, does not appear to have understood all the advantages he received from the use of his lacedflocking, as he feems apprehenfive that the cure of ulcers on the legs obtained by this means, were lefs likely to ftand, than those effected without it. He appears therefore frequently to have recommended the flocking and rollers on the fame principle with reft, and an horizontal polition of the limb, to prevent what is termed a defcent of humors to the fore, and the ædematous fwelling that often accompanies thefe ulcers. But his reasoning was certainly not fo good as his practice, and had his bandage effected nothing beyond his intentions, his fuccess had been much less than it was. The roller has many other uses befides counteracting the difposition to ædema, (to which the lower extremities are peculiarly liable), and one that I cannot omit mentioning

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tioning here, arifing from the manner in which the filling up of every deep ulcer is effected. To this end, there is not only a trifling elongation of the capillary veffels in the wound, but the parts contiguous to the ulcer, are found to waste, or diminish, confiderably; infomuch that Meffrs. Fabre* and Louis, eminent furgeons in Paris, attribute the whole of this Process to what they call an affaifement, or a wafting away of the extremities of these capillary veffels. This indeed, is by no means the whole of the cafe +, though it is principally hereby, that the cicatrix 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 indeed 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 other parts of the body; as it is probable they would not a little contribute to their cure.

* Memoires de l'Academie de Chirurgie, vol. 4.

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

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There is only one inftance, however, that I know of (common incifed wounds excepted) in which this practice has been much attended to, which is that of the venereal buboe; though even in this, the practice has not been general. But Mr. *Bromfeild*, I know, has conftantly had recourfe to it for that ill-conditioned fore, which it is well known is frequently very troublefome to heal, after the venereal virus has been deftroyed. Such, however, after refifting a variety of dreffings and alterative medicines, have been prefently healed upon the application of a very tight bandage; for which information, when I firft began bufinefs, as well as many acts of kindnefs, I am indebted to that gentleman, to whom the public well knows its obligations in matters of greater importance.

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

7 BELL, part 2. § 2. See also Clarç on Absceffes.

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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 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 our profeffion, though I do not mean to hint, that fo much judgment or memory is requifite for rolling up a leg, as in the application of bandage to many other parts; yet great attention is neceffary. The roller must prefs equally 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;

|| WISEMAN indeed almost every where prefers the laced-stocking to the roller, giving for a reason that the roller makes a less uniform preffure, and even bruises the parts: but however this may be with a linen bandage, no laced-stocking can be so fmooth, firm, or so pleasant as a flannel roller.—The great advantages of which are now so evident to me, that however necessary furgeons may think rest to be in some very bad cases, however attached to particular diet or dressings, or prejudiced against any part of this work; I would entirely upon principle importune them to add to all these, the conflant use of a flannel roller, and can assure them of far greater success than they have ever had, in every ulcer of the lower extremities.

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neither will it leave fo much rifing on the fkin as a linen one, which alfo 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 §.

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 exercise is allowed, this rule should be confiderably extended, and the bandage, (which ought to be at least three 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 (the end of the roller first crossing the instep) and after being brought two or three times over the ancle, should ascend spirally (the edge of one turn of the roller being not more than about an inch from another) till it rifes to the calf of the leg. Here the stricture ought to be less, to permit a free action of the muscles, and the turns therefore be fomewhat more distant; in which manner it must be continued up

§. See BELL on Ulcers. Part. 2. §. 2.

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 compreffion being made above or below the precife part, for which fuch compression 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 whole leg is rolled tight, will fuffer great pain, and the furgeon be long difappointed in the cure. However , triffling these directions may appear, experience will prove them to be otherwife-A very moderate fhare of knowledge of the first principles of fcience, were fufficient to guard me from infifting on trifles; upon which the art of healing will never depend. But as there are many young men always in London, who come profeffedly to learn, and fome of them with very little previous education in furgery, for fuch at leaft, more particular directions may not be wholly unneceffary.

* Medical Obferv. and Inq. vol. 4.

With regard to exercife, 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 increase pain, especially where flimulating applications are used. And that in all cafes, (though no pain or inflammation should follow,) it must have a natural tendency to retard the cure, if not entirely to hinder it, both by diffurbing the tender granulations as they rife on the fore, and preventing that process of nature by which they dry on the furface, and produce a cicatrix.

Much of this reafoning may be true, and is fo, as it refpects many wounds on other parts of the body, but has not a like application to old fores on the legs; where a particular stimulus 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 exercise than without it. It is acknowleged, 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 so for some time, in as quiet a state as is poffible, or they will feldom unite firmly. But how different these cases are, I need not stay to point out, and have mentioned them only for the better clearing our way to the precise point on which the argument turns. For though the lips of fuch wounds will not grow together, whilst they are kept constantly in motion, yet both lips will be covered with fkin in a very few

few days, and in this fenfe, a healing of the wound is produced; and it muft be very great motion indeed to prevent it. Now this is the kind of healing in queffion 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 \uparrow) it muft 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 muft be effected from the exercife fo greatly increasing the discharge, as to prevent that disposition to dry up, which ought to take place in the extreme veffels of the fore, whereby it has been faid,

+ It may not be useles in this place, to make a few general observations on mufcular action, with a view to point out fome particular advantages of tight bandage, where exercise is used .- In muscular action, there is always an accurtation of the moving fibre, and a general enlargement of the muscle. This increase of bulk is not equal, but is greater about the belly, than at the extremities of the muscle. Difease in a part may render this action liable to great irregularities. Fascia, and annular ligaments, &c. prevent unequal contraction, and its manifest inconveniencies .- It is true, we don't find the 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 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 muscles act; as well as diminish the swell 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 reason and experience.

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the cicatrix is formed. And if the quantity of difcharge be the objection, in regard to ulcers on the legs, it proves all I contend for; it is defirable if it be good, and the want of it is, during the greateft part of the cure, the grand obftacle in our way to the healing of the fore ‡. For those on the leg, and especially the most painful ones, either discharge very little, or abound only in a thin and excoriating ichor; and neither of them can be changed for the better, but by such means as shall restore the due tone of the vessels of the part, destroy the loose or callous shelf on the furface, and thereby open a way for the fecretion of laudable pus, the best dressing 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 lymphathics, whereby it increafes the ftrength and vigor of the limb. On this account the difcharge can never do harm, nor the exercise that promotes it keep the fore improperly open; for if the habit in general has nothing particularly amifs in it, and the circumftances of the part are fuch as have been deferibed, the difcharge will gradually abate as the ulcer diminifhes, and its furface will always dry up in a rea-

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

Traité des Iumeurs et des Ulceres. fonable

fonable 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 inferior parts of them, is greater than has been generally imagined, or has, at leaft, had any influence upon practice. Nature, therefore, ever attentive to the good of the whole, and provident for every defect, has wifely fupplied the natural deficiency arifing from their diffance from the heart, in the beft way it was poffible; befides, therefore, that fhare of labor they have in common with other parts, it has not only impofed upon thefe (as was hinted before) the weight of the whole body, but has defined them to be the inftruments of its conveyance from one place to another.

But on this alfo I have already delivered my thoughts, and may have ftill further occafion to infift as I go on; fuffice it to hint here, how greatly prejudicial it muft be to general health for any perfon accuftomed to labor and exercife, to be confined for a length of time in an inactive ftate, and the greateft part of it, in an almoft horizontal pofition.—Can it then be neceffary in the cure of ulcers on the legs, to deprive the part affected of thofe very advantages which nature defigned to preferve it in vigor || ? Has it the moft remote tendency to

|| Ufus corroborat, otium autem colliquat. HIPPOC. Med. Officin.

This observation is univerfally allowed, and is remarkably evident in the vast influence that great exercise of the extremities is observ-

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

It is granted, however, that exercise may in the case of fome large fores, to a certain degree, retard the healing of the ulcer, for the fame reason that very great motion of other parts would affect fores feated on them; but inftead of being otherwise injurious (by occasioning fluxion of noxious humors to the part, and I know not what other evils faid to be peculiar to the lower extremities,) it is really useful in every other respect if a proper bandage is 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 *: whilft the

ed 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.

* How far the continuance of a roller, which I understand a very refpectable hospital furgeon advises to his patients, may prevent a return of the complaint, I have no right to attempt to decide, fince I have never injoined rest, in any instance, fince I knew how to cure ulcers without; though indeed an hospital is not the properest place to determine the point, as the patients are often never heard of after their

the evils which are faid to follow the drying up of old ulcers, when fuch do take place, are very often the confequence of an injudicious method of cure.

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

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their difcharge: we know, however, how very common it is, for large or old ulcers, healed by means of reft of the part, to break into much worfe fores than before they were first healed.

* A free use of the limb has been so generally exploded amongst regular practitioners, that it has been more necessary to infiss thus largely upon it; and this appears, not only from its general difuse, but also from sufficients arising in the minds of sensible writers +, after other men of experience and reputation seem to have approved of it \ddagger .

† Bell on ulcers.—The following specimen will shew how strict an adherence to rest, authors have required, " Il faut faire tenir la partie malade dans le plus grand repos ; le moindre moyement est capa-

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* Medical Obferv. and Inquiries, Vol. IV.

I am aware that fuch argument appears to manifeft difadvantage, and may be thought to refemble a circulus 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 was neglected, and vice verfa, hard labor without adequate nourifhment, but taken together, contribute to the health of the fubject; fo clearly has experience proved to me, the inoffenfive, and falutary effects of tight bandage and exercife united, in regard to the ulcers in queftion.

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 which abundant experience has confirmed my first expectations of, and fully justified the attempt. And, indeed, were it not for the depending fituation of these fores, furgeons would fearcely have thought of the propriety of a fparing, or low diet *, for fo many months together, in the cure of them, nor yet of that frequent recourse to purging, without which the

ble d'y faire des teraillemens, qui augmentent la douleur et la fuppuration, detruifent les chairs tendres qui renaissent, et brifent les primiers linéamens de la cicatrice." *Traité des Tumeurs et des Ulceres.* * See BELL, part 2. § 2. where the ingenious author declares himfelf of this opinion.

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healing up of old, or large ulcers is fcare ever attempted. For these fores, it has been faid, are not usually attended with inflammation, and where they are, it is feldom difficult to be removed. Indeed ulcers of this class, are more generally to be met with in weak, relaxed conflictions, than amongst strong plethoric subjects of an inflammatory habit, and are in such circumstances more difficult to be cured.

But when a way is discovered, to prevent the ill-effects of exercise, and the descent of humors, as it is called, there can be no objection, (an evident state of general, or local inflammation excepted) to any diet that would be found proper for such people at another time; and which most are sure to indulge themseves in, as soon as the staken 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 hinderance to a cure, but its being an extreme part of the body, in which the circulation is lefs vigorous, and the vires medicatrices naturæ, for thefe reafons, more languid and ineffectual.

If these things are allowed, many advantages must arise from such a diet +, as hath a direct tendency to support the patient in full health, and to affist the powers

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^{*} See Introduction, p. 22-26.

⁺ Perhaps falted meats, and spirits, are the chief things to be interdicted.

of nature to create, and fupport a difcharge of laudable pus, the conftant forerunner of a cure in every cureable ulcer.

The laft article mentioned relates to medicines, of which fome notice has been taken already, but it may 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 occasion, by declaring facts to be on their own fide; which they often do not, and fometimes indeed, are not permitted to produce. Such an argument, therefore, feldom comes with proper testimonials 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 present instance, I am encouraged to fay, experience has led me to fuspect, that less is to be hoped for, and much lefs is required from medicines, than is generally supposed ; ulcers on the legs being, in general, mere local complaints, not connected with any particular difease of the system. It is possible, I may be fomewhat fingular in these opinions; whilst 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 these, as well as other fores ; but that they are frequently prefcribed in a very indeterminate manner, and their effects are confequently uncertain. But should the patient labor under the true fcurvy, or the ulcer follow the fuppreffion of fome , periodical,

periodical, or critical discharge, or the disappearance 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 conftantly call for 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 prefcribed, which, perhaps, excepting only the bark and cathartics, are administered under the idea of alteratives; by which fome people intend a clafs of medicines that will effect a certain change in the habit, without fo much as an idea, what that change is to be. The patient has a fore; it looks ill, that is, it is not deterged, or will not continue fo; the matter discharged from it is bad; or the ulcer is not 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 fuitable dreffings be applied ; let the patient enjoy the air, moderate exercife *, and a proper diet; let a tight bandage be applied to brace, and contract the fore, to keep down the

> * Celfus. lib. 7. cap. 3. F 3

fungus, remove callous edges, and prove a tonic to the part. If these things fail, such medicines should be administered as will brace the system, or correct its manifest defects, of which some mention will be made in their place—further than this, I must say again, I have neither known their use, nor the want of them +.

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

In order to this, it will be neceflary to make fome diffinctions of ulcers, fince the general indications cannot be alike appliable to each. And this would 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

+ 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.

⁴⁶ 1. Si le malade a la verole, le fcorbut, ou les écrouelles. 2. Si
⁴⁶ le fang est chargè de bile. 3. Si le fang est àcre et falè fans être
⁴⁶ chargè de bile. 4. Si le fang péche par être trop épais, ettropréfineux.
⁴⁷ 5. Si l'on judge que le fang foit trop féreux. 6. En générale, il
⁴⁶ faut, dans tous les cas, purger fouvent le malade, mais le purger
⁴⁷ doucement; lui donner tous les jours une ou deux prifes de quin
⁴⁶ quina; et lui faire observer un regime exact, tant pour la quan⁴⁶ titè, que pour la qualité de la nouriture."—If the reader can acquire any practical knowledge from the most of these indications, I must confess he has greatly the advantage of me.

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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 have fo far fucceeded, as to have pointed out a practice which others can with fafety adopt, and furnifhed the ingenious with hints that may be depended upon, it is hoped, that fome, or even many defects in other things will be overlooked. Thus much, however, may be faid, that many cures have been effected by the means now recommended, which have hitherto withftood all the ordinary occafions of relapfe.

The numerous diffinctions of ulcers frequently met with in chirurgical writers, are taken chiefly from their different appearances, and the nature of their difcharge, but when applied to ulcers on the legs, have most of them very little relation to practice, and amounting to no more than that their furface is in an illconditioned ftate, make little or no effential difference in the indications of cure.

The moft eafy and practical division, will be to confider them under two heads only, which are calculated to illustrate the preceding observations, and correspond with the different treatment they will require.

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

The fecond comprehends the true phagedenic ulcer; fuperficial ulcers where the furrounding fkin is excori-

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ated 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 surface, generally the confequence of ill-health, poverty, or neglect.

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

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

With respect to inflammation, should this attend a large fore, where the pain is very confiderable (for the pain fo common in very small ulcers, is feldom the confequence of much inflammation, but rather of a thin and caustic discharge;) an emollient fomentation, and afterwards a bread and milk poultice for a few days, may be applied to advantage: but if such a cafe can arise 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 moissure and heat, and is not only a less relaxing application, (for such it has been observed, should never be very long continued to the legs*) but is a more powerful antiphlogistic. And here I may venture to repeat from a long experi-

* See alfo BELL on Ulcers.

rience

rience, that fuch poultices and fomentations, however great their reputation, are feldom neceffary but in the beginning of the cure, where the parts are in a flate of inflammation, and particularly in the poor, who have long endured, and flood much upon them in that flate; whofe fkin is likewife often dry and left dirty, and its pores confequently obftructed. But as foon as the inflammation and foulnefs on the fkin are taken off, flrong digeftives, with exercife and a roller, will produce a much fpeedier and better digeftion +.—This I am fo fatisfied of, 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 is well made ||. And I hope I fhall be pardoned

[‡] WISEMAN gives a cafe very much in point, and observes, that after confining a patient to the bed for a very bad ulcer, which he had poulticed a confiderable time, he could not get it to heal till he left off the poultice, and applied a laced-flocking. Book 2. ch. 9.

I See FREKE's Art of Healing.

|| When I confider the importance of a good poultice to ulcers, when the use of them is called for, and the number of pupils who wish the metropolis every year, with an express defign of acquiring every kind of chirurgical knowledge, many of whom there is reason to think, have rarely seen a bread and milk poultice properly made; it is hoped, it will not be thought trifling on this occasion to mention the best method of making it. This can be at the worst, but a

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doned 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

little time thrown away, and if only one young practitioner should make a better poultice by this means, or if one patient be benefited by it, I shall easily 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 spoils them .- They should be made of the crumb of moderately stale bread, which should be cleared from every thing the least hard, or lumpy, and after being grated should be rubbed between the hands, till it is reduced, as near as poffible, to its first ftate of flour. The milk fhould then be boiled, and the bread lightly fprinkled in with one hand, whilft it is kept flirring 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 fhould 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 cool enough to allow of its application) and be fpread upon a piece of double linen cloth, by the help of a round-pointed knife (greazed with hog's lard or oil, instead of putting greafe into it; which prevents its hanging together,) to the fize it is required : and should always be about three quarters of an inch in thickness on the linen. If poultices are too fliff 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 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 greatly support it. make

make one fo well as herfelf; though there is not one poultice in fifty, made and applied by either of them, that is properly managed.—Before I quit this fubject I cannot help adding, that if much benefit is expected from these applications, they should in many cases be renewed oftener than they generally are: for the want of this, the smaller ones especially, soon becoming cold, I am fatisfied, are often likely to occasion 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 advised nitre and cicutas, or opium; the last, however, is less proper if the inflammation be confiderable; but the antiphlogistic 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 phyficians province to difcover and remove; but if neither of these 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 with the affistance of firm bandage and exercise, shall cleanse or deftroy the two fenfible furface; which will immediately

§ 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,

be followed by eafe, and a healthy appearance of the fore.

After what has been faid, another obfervation or two refpecting the fymptom of pain, is all that will be neceffary. And here I remark that, fevere pain muft be mitigated, if it cannot be entirely removed, or nothing will go on well; whilft the degree of pain, together with the nature of the difcarge, 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 thefe cafes, the difcharge is always thin and acrid; and though fuch vitiated matter may arife from the morbid flate of the folids, and of the fecretory organs of the parts, which throw off fuch kind of fluids as cannot be changed into laudable pus, yet this does not certainly arife from an inflammatory caufe, and therefore is not always removed by antiphlogiflics, and mere emollient applications; though it ever will be fo, when that is the cafe. But if the habit is not particularly concerned, it arifes more frequently from 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 a

* La feçonde cause (du defaut de suppuration) est le desaut d'inflammation dans la playe. Traité des Ulceres, Ec.

fafe and rational means of promoting it, and will as certainly be followed by a ceffation of the pain \uparrow , and herein we go back as far as relates to ulcers on the legs, to the practice of the antients \ddagger , whofe ointments 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 ufually of admirable efficacy, in fuch as attack the lower extremities.

[†] PAREY fpeaks exactly to this purpofe in the cure of ulcers, lib. 12. cap. 9. where after having directed cataplasms of folanum, cicuta, poppey feeds, and sometimes opium, if these fail to procure ease in some cases, he adds, "neque anodynis, neque narcoticis, fedari poteris, imo blandis medicamentis appositis 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 est." To this he adds, "interim ulceri circumponetur refrigerantia, ne virium remediorum vehementia fluxionem excitet."—But this latter is obviated by the use of a proper roller.

[‡] 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 still of a different opinion, (as appears from the 4th volume of Memoires de Chirurgiè) and indeed fome latitude must be allowed; for the fact is, that in the cure of every ulcer, as of fever, a certain degree of inflammation (or exertion of the fystem) is necessary; and too little does as certainly, though upon a different principle from Plethora, frustrate the falutary intentions of nature.

I fhall

I fhall only add on this head, that the moft painful ulcer in general, is that of the eryfipelatous kind, attacking the furfaces of parts: whatever dreffings are applied to thefe fores, fome of them are intolerably painful for a long time together, though without true inflammation of the part. As the free exhibition of opium can here do no kind of mifchief, fo will it render the moft fuitable dreffings, which are apt at first to add to the pain, additionally ufeful.—But I shall have occasion to speak largely of this particular fore in its proper place.

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

Systematical writers, who have been fond of multiplying diffinctions of ulcers, have been equally precise in their directions for obtaining a cure *. We are to digeft, deterge, incarn, and cicatrize; finuses 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 advise an horizontal position of the limb, and injoin absolute reft. The

* Compositi ulceris ad curationem multæ funt indicationes propositæ. PAREY. whol

whole procefs of cure is moft accurately delineated, and fome appofite remedy prefcribed to effect every intention, as if art was 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 moft converfant with nature, well knows that her operations, and the arrangements of fcience too little refemble each other.

It is univerfally admitted, however, that except an ulcer becomes clean, it will not cicatrize, though practitioners are not fo well agreed, concerning the beft means of bringing it about. But we are always to know our proper place, art being in this, and in every other instance, a mere hand-maid to nature, to lend affistance in a way the most agreeable to her own laws .- In the introduction to this little work, an attempt has been made to reduce the principles of the cure of ulcers to two only, viz. an attention to the general vigor of the conflitution, and to the action of the parts; but it may be also 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 substance in its cavity, and a condensation of its furrounding parts to a certain level and extent. By the union of these two means, nature accomplishes her end. That these processes do take place, may be known by an examination of the fubstance which is formed in the cavity of every cicatrized ulcer; and by the

the apparent evenness of the newly formed cicatrix with the neighbouring parts. And every one must have obferved, that the loss of substance is more evident at fome months distance from the time of cure*, than on the first healing of the fore.

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

The cure, it is faid, is brought about, by the general vigor of the fystem, and the action of the parts, together with an abforption of those contiguous to the ulcer; the most apposite to which indications, are a proper diet, exercise, and bandage, with the external use of invigorating applications. And how much may be effected by them, experience alone can demonstrate, and it is a principal defign of this treatise to set forth.

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

† Perhaps the very best of these is the suppurative poultice for 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 discarded from hospital practice. His intention, however, was perfectly rational as far as it went—" to sweat out the discarder in idea I have always had in view, instead of inviting discarded parts to dry up; but I think it much better accomplished by other means, that do not require the horizontal position.

I am happy, however, to find an author of confiderable efteem, and amongst the best of the later practitioners, fo much of my mind; I mean Wifeman, who had continual recourse 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 lacedftocking, he fucceeded much better than most practitioners have done fince, with all our improvements*. And I am fatisfied from what I have experienced, that had he allowed his patients to walk, and by the help of a flannel roller, had made a still tighter compreffion than the laced-flocking can pleafantly admit, or effect, and had been yet bolder in the use of ftimulating applications; he had not had reafon to complain, that healing fome kind of ulcers was in general only a palliative cure. For it has been very evident in reading his cafes, and comparing them with the experience I have had, that the principal things which he failed in

* Notwithstanding all fciences have been frequently improved by reducing them to a state of simplicity, yet, in an attempt to purify them, artists have been sometimes led to overlook the principles on which some practice has been sounded, and have therefore discarded many things that were valuable—like some unprincipled empiric, who in order to get rid of an imaginary ill-humour in the blood, directs so large a quantity to be taken away, as reduces his patient to a worse discasse than he laboured under before; forgetting that the good and bad blood would run out together.

See Thoughts upon Amputation by Dr. KIRKLAND.

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(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 cicatrix. 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 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 ufe of the roller, and been lefs fond of abftinence and reft, would have fet an example, which after practitioners would have made but little improvements on.

These things then, viz. exercise, bandage *, and active applications, may be folely depended upon in ordinary

* For fome practical obfervations on the fubject of tight bandage, inferted in the Medical Obfervations and Inquiries, the faculty was fome years ago indebted to the late ingenious Mr. ELSE, and though the practice was not new, may be faid to have been revived by him, having been of a long time neglected; and it is matter of concern, that no mention has been made of it fince, as the date of his paper is in the year 1770. I had made use of tight bandage, however, long before I attended to that publication, and had Mr. ELSE been acquainted with, and enforced a plan fimilar to this, I had not intruded my thoughts on the public; but as there is no difease (as that gentleman juftly observed) more common in large hospitals than ulcers on the legs, it is become a matter of importance, to throw any additional

ordinary cafes; and where no fpecific poifon exifts, 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 thro? all the ordinary fituations of life.

Any common digeflive is rendered deterfive in the degree it may be thought fit, by the addition of a little calomel, corrofive fublimate, the white, or red precipitate, or by a fmall portion of verdigreafe; but, however uncommon the practice, it is fometimes better to ufe the red precipitate alone in the firft ftage of the cure; where powerful digeflives have proved ineffectual; and this the ulcer will alfo readily bear, when exercife, and a good diet are allowed. And here it is that the judgement of the furgeon difcovers itfelf, in adapting his dreffings to the nature of the ulcer, which (laying afide the refinements, and nice diffinctions I have ventured to difcard,) muft by one means or other, be brought to

ditional light on the fubject. Moreover, as Mr. ELSE still expressed his fears of healing old ulcers, and perhaps had found fome difficulty in doing it, on the partial plan he recommended, I cannot help observing, that his fuspicions ferve rather to fupport this method, and have a tendency to demonstrate the propriety of using strong digestives which have been fo much infissed upon, as well as the further design of not hurrying nature to dry up the fore. I am led to these reflections, by Mr. ELSE having recommended only assure or drying applications, and probably not encouraging, and perhaps not permitting his patients to walk, at leass there is no mention of it as a part of the practice in his hospital; nor any notice taken of his patients continuing well.

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difcharge laudable pus, whatever appearance its furface may have; for nothing goes on well till this is effected.—This, the most inveterate ulcers on the legs may be brought to afford, as freely as forcs feated any where elfe; unlefs, perhaps, those on the head are excepted, which, I think, furnish pus more perfectly album, læve, et æquale, than those of any other part.

Probably nothing but experience can induce any one to think, how eafily this may, in general, be effected by digeftives and exercise, and how soon afterwards very troublesome fores put on a proper appearance, and are brought into a healthy, and healing condition. But where these things fail, recours must be had to more powerful means *, and such as no surgeon is ever at a loss for; which if freely applied, interposing lenient applications when the appearance of the fore seems to demand them, will destroy the foul furface, and give nature (affisted by a good diet) an opportunity to exert herfelf; and as Hoffman fays on this very occasion," ex voto succedit consolidatio."

Perhaps one of the beft applications of this kind, is the merc. cor. ruber very finely levigated; this is peculiarly ufeful in fmall and obftinate ulcers, 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

* " Vulnera maligniora, valentioribus egent remediis; imbecillioribus, autem, miniora." GALEN. de Compend. Med. lib. IV.

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foftens the hard, ftrengthens the relaxed fibres, deftroys the unfound, ftimulates, 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 have I faid too much of it, with respect to a great number of cafes; for all this is the confequence of a proper use of it, where a tight bandage is applied, and adequate exercise allowed. But then, it has been hinted, it must, for some of these purposes, be used in great quantity, and instead of being lightly sprinkled over an ill-conditioned furface, the ulcer must be filled with it *, the furgeon taking up a large pinch of it, and boldly plugging up the fore. It has been acknowledged, this is a very homely mode of dreffing a wound, and nothing but a conviction of its advantages would have reconciled me to it.

It has been faid, that the above practice is particularly ufeful in fmall ulcers; but in many large fores, fomething of the fame kind will be found neceffary.

* In the procefs of this work, I was happy to meet with more authority for this practice than I expected, and looking over WISE-MAN found him making use of the very expression; to which practice, I am fatisfied, he, as well as Dr. TURNER, owed much of their fucces. The former tells us he performed cures on the legs in as few weeks, as the patients had been years under the hands of those he calls the barber chirurgeons of the time. Book 2. ch, ix. SHARP speaks as honourably of it, in the cure of ulcers on the leg, and intimates that it deferves the credit it has obtained, but prefers it mixed with a digestive.

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The foul furface must be removed, and the fore brought to the state of a fresh 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 is done, fome obftacle or other will continually arife *, but this once effected, you remove the greatest hinderance to the cure. And it may be more eafily done than is generally imagined, and though the fucceeding furface fhould put on the fame unpleafant appearance, after the first, or even second application, especially in small ulcers, yet the amendment, though gradual, is not uncertain, and the pain is lefs fevere than might be expected. The digeflives are still continued when the escharotics are left off, and the parts being, by these 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, and this reftored once and again, will effect every thing that is required +.

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* 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 cealing to shoot, are not followed by a difpolition to form a cicatrix ; or if the ulcer heals, it foon breaks out again."

+ From the very judicious observations on the Malvern waters with cafes annexed, published by Dr. WALL, it should appear, that the good effects produced by them on ulcers of the legs, have arifen from

There is an ulcer I have hinted at, that ought not in this place to be overlooked, which is ufually very fmall, and particularly affects the parts about, and even below, the ancles; which, indeed, cannot therefore properly be called a fore leg. This is exquifitely painful, and for fome time I found it difficult of cure without refting the leg, having fo very little advantage from the roller; which can make no adequate compression below the feat of the fore. It was in these cases more particularly, that Wifeman preferred a laced-flocking, becaufe (fays he) " I could not with a roller make a fuitable compreffion fo near the ancle, without caufing a fwelling on the foot"-but this is certainly a miftake, for having, at first, found the fame difficulty, I was foon able to remedy it, by carrying the roller feveral times over the ancle and foot, fo as to leave no part but just the point of the heel uncovered by the roller ; and by this means, I also make a tolerable compression below the ulcer itfelf: to which intentions, the circumstance of the roller being made of flannel, very greatly contributes. Thefe

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 tumors, and that, in almost every cafe where they have been ufeful, they have raifed more or lefs of inflammation, and have often occafioned very confiderable pain for fome days.

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cafes are often attended with a confiderable puffinefs, and a tetterous appearance of the furrounding skin, accompanied with a thin and acrid discharge, which renders the parts additionally tender ; whilft the little ulcer is almost perfectly dry, and cannot eafily be brought to fuppuration, till the complaint of the fkin is removed. This I once thought was relieved by bathing the parts in Nevil-holt water, as lately recommended for this purpose, but I soon learnt, is much more speedily removed by drying applications, which inftead of the common cerate, may be fpread on lint, or linen cloth, and applied over the usual dreffing to the fore. This may confift of cerat. alb. with bole and powdered alum, or the ung. rubr. deficcativ. or in more obstinate cafes, 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, notwithstanding the tumor, and heated appearance of the part, I never found difagree *. If the fore does not foon change its complexion, on the disappearance of the affection of the fkin, the little ulcer fhould be filled with

* Thefe local affections of the fkin, vulgarly called fcorbutic, have 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 kind, and will not endure the ufe of efcharotics. See Dr. CULLEN'S Synop. Nofolog, alfo Dr. LIND, on this difeafe,

Part 2. Chapt. 2.

precipitate *, pulv. angel. diffolved lunar cauftic, or any fimilar efcharotic, and when the flough is come out, be immediately repeated, if the fore does not put on a kindly appearance, which it certainly will in a very little time; but the cure will not ftand if this is 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 is had to thefe, only where active digeflives, aided by the bandage and exercife, prove ineffectual; and where this is the cafe, I reft it upon future experience to prove 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 ancle, and there are fcarce any of the antient writers but mention it as fuch; whereas, there is no ulcer on the leg, that is fo eafily, foon, and certainly cured, when properly treated. The numbers, and variety I have feen, leave me no room for doubt on this head; of which

* WISEMAN fpeaking of fuch an ulcer, has this bold expression, which I doubt not was the refult of experience, " the best anodyne had been to have filled it with precipitate." Book 2. ch. iv.—He was not afraid of the confequence mentioned by Hippocrates, or knew better how to diffinguish cafes, than to be in any danger of the evil he mentions ; who fays, " Thrinon Damonis filius, habebat malleolum ulcus, juxta nervum fane non purum, huic a pharmaco corroso contigit, ut opisthotonos moreretur."

> Epidem. lib. v. fome

fome have been from three to thirty years flanding, breaking out again as conftantly as they were healed, and inexpreffibly painful. But if not of the phagedenic kind (of which I fhall treat in another place) are perfectly cured, in a few weeks, by taking much exercife, and dreffing with the warmeft digeftives, (or where thefe fail, by a free ufe of precipitate,) and a bandage. This may be very tightly applied, if no confiderable inflammation attends, or as foon as this fhall be removed by bleeding, and a few days application of *Freke*'s fuppurative poultice *; which it will be fometimes proper to begin with, if the ulcer is deep.

In ulcers of long ftanding, and where the conflicution is thought to be concerned, it fometimes happens that befides a large fore, the leg fhall be exceedingly fwelled, with hard tumors, or lumps, in one or more parts of it, which will not always be diffolved by the difcharge from the ulcer. Here, the application of a large piece of oiled-filk will produce the happieft effects, and with fafety difperfe the indurations. And it fometimes happens, that the other leg will be equally fwollen, and exceedingly hard, though without ulceration. In which cafe alfo, whilft a copious difcharge is kept up from the fore, the tumid leg fhould be rolled, and covered with a like piece of oiled-filk ; which, by exercife, will daily produce a confiderable perfpiration, and without the leaft affiftance from medicine, will bring down the

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

hardneis

hardnefs and fwelling, by the time the ulcer on the other is healed. This direction, however triffling it may appear, I have found fuch evident advantage from, that I think I fhould not have done juffice to my fubject, if I had not made particular mention of it.

I have feen, I think, fome of the worft of thefe and other cafes, in which recourfe is ufually had to a variety of internal remedies, where the cure has gone on, at leaft, as expeditioufly without them; or has been effected, after very powerful ones have been administered in vain. And perhaps a little time may discover, how very few there can ever be occasion for.

Wherever ulcers are connected with difeafe of the fyftem, it has been granted, the affiftance of medicine 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 neighborhood of the metropolis; and the fcrophulous very feldom attacks the legs in the form of ulcers. The venereal indeed, more frequently occurs, or at leaft, ulcers will partake of the poifon, and I have feen alfo the cancerous, or fomething very like it; but as there will ever be, in thefe cafes, fomething charaCteriftic to their caufe, the furgeon can feldom or never miftake them,

There is a medicine however, in pretty common ufe, that feems to claim an attention, and perhaps has been of fervice in fome cafes, though I am not yet fatisfied they would not have got well without it. This is the corrofive fublimate, which in very large, and old fores, has,

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has, in compliance with cuftom, been frequently adminiftered with feeming fuccefs. But it is often improper for labouring men, who are much out of doors, and for obvious reafons, more efpecially in winter. However, where these objections do not equally take place, every furgeon of experience will judge for himfelf, what advantages he may reasonably expect from the use of it.

There is, neverthelefs, one kind of ulcer, improperly termed fcorbutic, and is ufually of very long ftanding, that is frequently affifted by medicine ; but this generally attacks the poor, who have either injured their conflitution by hard drinking, or on the contrary, have been in want of almost the necessaries of life. In fuch cafes, the bark as a tonic, is of wonderful efficacy, and ought in many cafes, to be given in much larger doses than it ufually is; and in a few inftances, for a confiderable time. It is inferior perhaps to no medicine, unlefs it be a folution of the blue vitriol, which is likewife peculiarly efficacious in reftoring the tone of the ftomach (as it is ufually expressed) in hard drinkers, as well as in ftopping the progress of gangrene; which I have seen it do, three or four times, after the bark had been administered in vain.

To avoid returning to the fubject of internal remedies, I fhall here name other two medicines; a ftrong decoction of the woods, and lime-water. The first will be of fervice chiefly in cafes of obstructed perspiration, and cutaneous eruptions, or the fudden disappearance of them; the other, in the eryfipelatous fore, especially where a great part of the limb is infested with a scalding

ing discharge, which takes off the skin wherever it runs. But we shall be disappointed, if we depend on this, or any other internal means; at least I have always found external applications much more effectual.

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 shall close this part of the work with fome observations on healing, an article of as much importance, as any that have been noticed.

This laft process 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 disposed to heal of itself, and will in many cases, even with the use of ointments not a little digestive*. For it is supposed (as will foon be explained) the more active ones have been weakened already, but not so much as to become mere greasly applications; which (especially warmed ones,) upon this plan, do as much injury, by relaxing the parts, as do very drying applications, when used to hasten the production of the cicatrix +.

If this latter be attempted too foon, and efpecially if early recourfe be had to drying applications, the furgeon will foon perceive his miftake. The ulcer, and

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

+ See BELL on Ulcers-upon the relaxing nature of warmed applications. Medio tutifimus ibis,

particularly

particularly fuch as are termed conflitutional fores, attended with difeafed skin, and are of very long standing, will put on an unpleafant appearance; and when they have feemed difpofed to heal up, fmall ones will be formed in the diftempered parts of the skin, 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 difease throughout a great surface of the limb, as may difcourage the furgeon from expecting a cure, without a great length of time, and affistance from reft. But all will go well notwithstanding, under the advantage of good rolling and exercife, if the discharge be kept up; for the exercise, instead of protracting the cure, I am fatisfied, tends in fuch cafes, directly to infure it; and I accordingly always defire it may be increased. All that can be neceffary, is to lay the finall contiguous fores into one, by a flight touch of the lancet, which will afford very little pain, as the parts are now become perfectly fodden, and the fkin parted from the edges of the fore : or fhould this be objected to by the patient, the little holes may be filled up, once or more, with precipitate, and the cure will go on as effectually, and almost as speedily as could be wished.

It was faid, the digeftive after a time may be weakened, and this may be done without improperly diminifhing that difcharge, which it has fo often been infifted upon ought to be kept up : for when the most active digeftives have been ufed, in bad cafes, for two or three weeks, the ftimulus from exercise will fufficiently

ently 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 in the dreffing fhould begin, and the digeftive be repeatedly weakened, three or four times at fuch intervals as the fize of the fore, and the time fuppofed neceffary for its cure, fhall point out. This is particularly requifite, if it feems to be at a ftand, or to heal very imperceptibly.

But great caution is required not to be too hafty in this, or to continue it, if the discharge is still very confiderable. An attempt to suppress this is always improper, and if it fucceeds, will indeed divert the difcharge fome other way for a time, but without any advantage to the patient; and the matter inftead of burfting through the fkin, as was mentioned where that is difeafed, will form a paffage in different places through the furface of the fore. In this cafe, the bandage thould be drawn tighter below the feat of the ulcer, and the matter by preffure with the fingers, at each dreffing, should be carefully forced up; the furgeon must likewife return to more active digeftives again, 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 cleanse some distempered 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

recourfe must be had again to efcharotics, which, if no bone is difeafed, will invigorate the parts, and foon improve the difcharge; or if stronger be used, a thick flough will be made, and the surface, 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 difcharge, whilft the furgeon, from their unkindly nature, is afraid of too haftily weakening his digeftives, 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, left the powers of the digeftive fhould injure its yet tender ftructure. But it may be still better, in very irritable ulcers, and fuch as are much indifposed to heal, to spread a margin of cerate on the fame dreffing, that the whole may be covered with one piece of lint, by which means the difcharge finds a readier way to run off: a matter of the greateft importance in fuch ulcers as are eafily offended. The pledgit, for this reason, should likewise extend confiderably beyond the furface of the fore, especially in fmall ulcers; or the tightness of the bandage will prevent the matter from escaping, and thereby occasion a continual irritation, which will difpose the ulcer to fpread. But though cerate is allowed of with the view I have mentioned, the use of very drying applications will, by no means, haften the cure in this class of ul-

cers

cers, which, perhaps, contains much the greatest 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, I would, efpecially in those of long ftanding, rather irritate than coax them, for I know they will heal in the end, nor will time commonly be loft in fo doing. For if every part is become perfectly found, the bandage will furnish that warmth which inclines them to heal; whilst on the other hand, if nature be not yet disposed entirely to suppress the difcharge, the furgeon, as hath been shewn, by attempting to heal up the fore, will have great part of his work to do over again. For this reason, dry lint, blue vitriol*, nor hard compress +, should never be used, though Iknow they

* 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 2. ch. 9.) This, however, feems to have been his ufual method, and it must be acknowledged, that fome ulcers on the legs may be fafely healed in this way, after they have put on a promifting appearance; but others will frequently prove deceitful, and become fouler than ever upon the ufe of drying applications.—Some ulcers thus healed will likewife ftand well, but there is no adequate rule to determine by; and therefore would a furgeon make fure of healing an ulcer, and perfecting a cure, effectially where exercise is allowed, that must not be his method.

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

have

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 being rather deficcated by art, than cicatrized by nature, it is most probable, many fuch patients must foon make application again.

The habit is to be first gradually relieved, and to fpeak a popular language, the humors are to run off, and the change from a long accustomed, or copious drain, to be cautiously effected; but which gradually abating as the wound diminishes in its fize, nature, however abhorrent of fudden transitions, will when left to herfelf, in a reasonable time find fome other vent. This remark, it will be supposed, is peculiarly applicable to ulcers of long standing, but although in more recent cases, it may not be so necessary that nature should find fome other outlet than the ulcer, nevertheless, all the above reasoning, as far as it relates to practice, will generally hold good: though it may perhaps be better accounted for upon very different principles*. Experience proves that few ulcers on the

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

legs, though brought into a clean flate, ought to be healed by any other means than preferving them fo, nor will any other, under the directions here given, in ordinary cafes, be found in the leaft neceffary. Every furgeon knows very well, that the great difficulty refpecting the cure of ulcers, and more efpecially those on the lower extremities, is to bring them into a good and healing state, and when that is accomplished an entire cure will follow of courfe. This is one reafon that wounds on the head fill up fo readily; they are not long in a foul state, and therefore after a few days use of some lenient digeflive, want only to be kept clean, or at the most, to have their luxuriant granulations kept within bounds, which are merely a confequence of ftrong digeftive powers, and of nature over-doing her part. But in the cafes before us, there is little 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 plaister, or fometimes one more drying, (as formerly recommended, if there are heats on the fkin) which fhould be fpread only on a piece of doubled linen, and be laid over the digeftive; but if hard comprefs, or merely drying applications are laid on the fore, the ill-confequences I have mentioned will generally follow, or the fore, for want of proper digeftion, will break out again.

Upon the above plan, however, every objection to healing the ulcer, as well as our fears for its return, are fufficiently obviated, and for want of which, the au-

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thor of the paper in the Medical Observations, appears to have observed the above unpleasant effects; for if old ulcers are dried up instead of digested, and skinned over instead of being cleansed 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 muft 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 cicatrix, 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 wholly to nature at this particular period, and not only will the cure be effectual, but as hath been observed, will often be accomplished in as little time, as it is usually done by reft, diet, and purgatives, with the affiftance of all

+ HIPPOCRATES speaking of recent ulcers, hints at this expeditious method of healing under particular circumstances, but how inapplicable to the cafes before us, reason and experience will determine-" aut si quis avertat (viz. suppurationem) ut omnino non fuppurentur, præterquam necessario, eoque paucissimo pure, et ficca funt quam maxime, ex medicamento non molefto,"-though in another place he adds, " ulcera non purgata, non committi solent, etiamfi adducuntur, neque sua sponte coeunt. De Ulceribus § v. But TURNER fpeaks expresly and boldly on the subject, "to incarn (fays he) before we mundify, or deterge before we digest, is building without a foundation, or to lay fuch foundation on the houfetop.

the alteratives, as they are called, that I have ever feen ufed.

Only large fores will afford any difficulty; whatever pain, fwelling, or humors, fo called, attend fmaller ulcers (of this class), they will occasion very little trouble, after a little experience of this method of treatment. The copious discharge, which a proper diet, exercise, 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 is found. If therefore, after this period, a large ulcer is found indifpofed to heal up, (though there is no other reason for supecting mischief at the bottom) and the ufual ftimulants are found ineffectual, the fore after the use of them, still continuing at a stand; fomething further is neceffary : the powers of nature being, in fome habits of body, often infufficient to cover a large furface with new skin, without other affistance, and a very different ftimulus, which will prefently be defcribed.

This brings me to the fecond clafs of ulcers, which in feveral refpects, requires a treatment different from the preceding. It was a just observation of *Ambrofe Parey*, "necessfe quoque est varia adesse medicamenta, viribus pariter et virium gradibus distincta;" for says he, "nihil mirum sit, fi suo sæpe excidant sine, qui eodem medicamento, omnia maligna ulcera curant, et fanare se posse putant *.

> * Cap. ix. lib. 12. H 3

Under

Under this head, then I shall treat that species of ulcer called eryfipelatous ||, or herpes exedens, occupying merely the furfaces of parts, which is always glaffy, and in its first stage, eafily offended by every unctuous application; also many small ulcers, attended with an . eryfipelatous affection of the fkin, furnishing a copious, and almost caustic discharge; the true phagedenic, and various large ulcers in very old, or poor people, and in patients of a relaxed fibre and habit; including every very large ulcer of long ftanding, with the like pale, and loofe furface, the confequence of bad health, neglect, or intemperance. Not that I mean to imply that no very large ulcer will yield to the former method, nor that 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 be the circumstances of the ulcer, it is to be digested and deterged, before we proceed to incarn.

These things premifed, the cure of every ulcer is to be undertaken with the fame intentions; powerful suppuratives, digestives, and detersive applications are to be used, and we are to proceed to escharotics as occasion requires. But when active remedies under every form are found to disagree, after a fore has been properly digested, and has put on a tolerable appearance, it is to be ranked in the second class, however small it may be; and especially that ulcer, the most obstinate of any,

|| Introduct. p. 18.

defcribed

defcribed under various names *, and ufually known amongst us by that of the putrid or phagedenic.—I shall begin with the eryfipelatous.

I have used this term, for the want of a better, to describe an angry, superficial ulcer, which is sometimes likewife accompanied with an affection of the fkin that will fpread over the greateft part of the leg; and chiefly attacks the aged and infirm. It always furnishes abundance of thin, and very acrid discharge, 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 long ufed to no purpofe; the ulcer either not healing at all, or breaking out in fresh places almost immediately, and the pain still increasing. Purges likewise are here of no ufe; as to medicines, opium and bark feem of the greateft avail: the pain muft be mitigated, and the habit be ftrengthened. The dreffings fhould likewife be calculated to prevent fluxion to the part, or not the leaft advantage will be gained; and in this fpecies, I have never feen any harm from fuppreffing the difcharge, though the remedies may increase the pain at their first application. Having, in bad cafes, made use of a mild fuppurative poultice for a fhort time, to cleanfe the fkin, and empty the little inflamed and obstructed glands, by promoting their fuppuration; I always use fome di-

* E'Axos payidamixor, or Noun of the Greeks.-Ulcus depascens, rodens, or ferpens; ulcus ambulativum; ulcus putridum, et phagedznicum.-L'Ulcere Putride.

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geftive to the deeper parts for two or three days. After which, an ointment made with as much true armenian bole as Goulard's pomatum will take up, may be applied to them, 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 covered with the unguent. ruber. deficcat. and after a while, with a compress wetted in the drying folution, made with facch. faturni and album, formerly mentioned, to avoid loading the skin with the ointment. With fuch applications, it will be useful fometimes 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 means should fail, recourse must be had to the aftringent folution, or ointment, I shall prefently defcribe, which will certainly be effectual; and will, I believe, in many cafes, prove a valuable addition to chirurgical pharmacy. This is of itfelf, the remedy for those small ulcers attended with such 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 this means; and indeed have found medicines incapable of doing it.

Where almost the whole leg has been affected, a thick fcurf, or fcab will remain for a confiderable time, which must not be hastily rubbed off. But the parts may, now and then, be touched with a little unguent. cærul. mit. and fometimes be washed with the drying folution till

till the fcales fall off of themfelves, or are very eafily feparated; at which time the fkin will be found, and perfectly fmooth underneath. In all fuch cafes, a piece of oiled fick, fhould now and then, be applied under the roller, about the time the fcabs begin to loofen, though fome of the fores fhould not yet be healed up; which will haften the feparation of the fcales, and take off the ftiffnefs of the limb. This fhould likewife be worn for a fhort time after the cure is compleated, which it will contribute greatly to the continuance of, but muft occafionally be laid afide, if it induces too great moifture on the fkin ; and the flannel roller be continued.

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 obftinate callus, on the edges, and on fome parts of its furface; is ftreaked often 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, it will fome-

* See FREKE'S Art of Healing. So alfo PAREY from GALEN, 14 nam diuturnior, et copiofior ficcantium, et detergentium ufus, 14 ulcera excavant indies; quare (fays he) prudens videbit medicus, 14 quando à valentioribus detergentibus, et corrodentibus ad mitiora 14 fit digrediendum." Cap. ix. lib. xii. times do under any treatment) the acrid matter either diffecting its way between the mufcles, by deftroying the cellular membrane; or by eating through the fkin. Its edges always put on an irregular, and unkindly appearance, are often fwelled, and ftreaked with bloodveffels 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 labor, 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 to fubdue many of these obstinate fores; and to this, the free exhibition of the bark will greatly contribute; which in fome of the constitutions I have described, is more efficacious when joined with aromatics.

Where the patient's fituation will conveniently admit of reft, (though indeed the remedies may be adminiftered without it *,) a fomentation used for a few days, and the suppurative cataplasim +, supported lightly by

* The different intention with which a common bread and milk poultice, and that now recommended, is made use of, is such, that although the former is feldom of much fervice unless the patient be at rest, and kept warm in the bed, the latter, from its potential warmth, will answer tolerably well when lightly supported by a stannel roller, though the patient be suffered to walk; which he may do, not only about the house, but to the surgeon's to be dressed, or examined, as I have repeatedly proved.

+ Vide page 106.

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, besides every other advantage, has that of absorbing, and therefore scheathing the corrosive, and caustic discharge, increased by most other dreffings, to the great aggravation of the discase.

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 state, is Goulard's pomatum and bole juft now mentioned *. By thefe 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. If it will bear this, a very few days will produce a wonderful change, healthy granulations will shoot, the remaining callofities will disappear, (which may be haftened by repeated fcarifications) the hollow

* Besides experience, such ointments have the fanction of all the old writers from the time of GALEN, who constantly advise fome preparation of lead with the absorbent earths, or other powder, for this malignant and eating ulcer.

parts

parts will fill 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, whenever the cure feems to be at a ftand.

By thefe means I have fucceeded in very troublefome ulcers of this species, though perfectly intractable at first with every common digestive, and abhorrent of 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, and if that be permitted, they will commonly break out again. Mr. Freke indeed, in regard to thefe cafes, has fpoken very politively of the effects of his suppurative poultice, but it will certainly prove infufficient when there are large fungi, or of very long ftanding. The difease often runs too deep, with too hard a callus, to allow the parts to get unloaded, and however fuppurative the poultice, it is not active enough to anfwer the end. The hardened parts, however, must be removed; and it may be proper in this place, to hint at a method of treating them that is often preferable, becaufe much lefs fevere, than the cautery, or total excifion with the knife. It is true, a fungus but rarely occurs, fo as to prove troublefome, under the plan I have

have mentioned, and which both the bandage and exercise, have an uniform tendency to prevent; yet it fometimes happens that a large and hard fungus is formed ready to our hand, and is generally the confequence of a bad bottom to the fore. If this arifes from a narrow neck, it may often be removed by preffing fome fine lint pretty firmly round its bafe, or if this fail, a tight ligature may be eafily paffed round it. But if the bafis be large, and it should not feem disposed to yield to digestives 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 generally wafte away by digeftives and bandage: but fhould this prove infufficient, efcharotics fhould be fprinkled between the lips, and be occafionally repeated, till the fungus subfides. This effected, proper digestives should be continued, by which the discharge will be kept up, and every thing Mr. Freke expected from his fuppurative poultice will be happily accomplished, without the baneful effects of reft of the limb; and without it, he never looked for a cure.

The large phagedenic ulcer is the only one that will create any great difficulty to the experienced furgeon; fmallones, 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. And many common large ulcers, though deep, with difeafe of the fkin to a confiderable extent, it has been faid, are cured in a very reafonable time, and require nothing but patience; I mean require the caution fo frequently given, not to be anxious to heal them entirely, till the furface is perfectly good, and they are difpofed to it with any common dreffing. 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 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 cuftoms 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 fome cafes will yield to no treatment whatever.

If very active applications are used, in the form of an ointment, these are often most advantageously applied to the large, and irritable fore, upon a thin piece of sponge; by which means very detersive ointments will agree very well for the short time they are neceffary, when they would otherwise eat the ulcer into holes, and give it a raw, dry, and indigested appearance. I received this hint, from what Freke says on his poultice, that it absorbs the acrid discharge, whils it conveys to the

the furface of the ulcer a fuitable application. This led me to reconfider the very frequent ufe 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 ufe of too long, and which every furgeon will know how to avoid.

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

This, I would flir up my brethren to attempt, and think they may fucceed oftener than it is imagined; and perhaps

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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 the great obstacle to their cure, it were easy to prove by a variety of observations taken from healing fores, and from such as having promifed well for a while, and then looking pale a few days, have run into a gangrene; or at least have conti: nued at a stand—but I am satisfied, every experienced furgeon is before hand with me, and is inclined, at least, to suppose it probable, that the hint may be just.

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

But if this be attempted too foon, and efpecially if the treatment be begun with it, the plan is perfectly irrational, and the cure will not be accomplifhed, or cannot be expected to continue. For this reafon I have objected to the early use of those drying applications, which fome empirics have entirely depended on; as well

well as against dreffing ulcers with aq. vegitab. miner. tinct. myrrhæ, dry lint, and covering the furface with lead; which I may venture to fay, would, at leaft, be ufed with more fafety and fuccefs at a later period, when fores are well cleanfed, and nature flags under fruitless efforts to cover a large furface she cannot first 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 tumor of any confiderable fize; from whence it is, that although the ulcer, a few days after the operation, fhall be very extensive, the cicatrix at last is not often larger than a half crown-piece, or even a fhilling : and it is on this account, that large furfaces are fometimes fo readily healed. But there is frequently great difficulty in thoroughly clofing a fore occafioned by a burn, on any part of the body, when the true fkin and adipofe membrane have been deftroyed to a confiderable extent *. Such cafes, in this respect, approach the nearest 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 lotion

* In fuch inftances, though a patient be ever fo healthy, we are apt to fay, that the conflitution long accustomed to the discharge, is thereby indisposed to fuffer the ulcer to close. But it is very probable, it may often be better accounted for, on the principle just now mentioned.

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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 ufed to the legs, they fhould not be continued throughout the cure, nor longer than is abfolutely neceffary; but being gradually weakened, the laft ftage fhould be effected, if poffible, by ordinary means, and 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 doubled linen, (for lint flicks too close to the furface) its edges, (in very bad cases) being first spread with any mild cerate, to prevent them from adhering too tightly to the fkin, 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 most advantageously applied, for a short time, on a thin piece of fponge; but as the fore contracts, and becomes dryer, the granulations are apt to fhoot into it, and the furface will bleed on taking it off. A flice of new bread may then be fubftituted, 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 disposed to spread, or very unwilling to heal. And should we, now and then, meet with a cafe, wherein the application of the folution upon bread, may feem neceffary for many days together, as this may be thought an uncommon, and aukward manner of applying a dreffing, the bafis of the folution

folution may be rubbed down very fine with a few drops of oil, and made into an ointment with ingredients more or lefs fuppurative, or otherwife, according to the particular circumftances of the cafe. But if none of thefe difficulties appear upon leaving off the dreffing with fponge, a piece of linen wetted in the folution, may be laid on the fore; or even wafhing it with the folution may now be fufficient, and a mild digeftive, or in very obftinate cafes, the cerate with crocus martis, or *Goulard*'s pomatum and bole, be applied to its furface. To this, a little precipitate, or corrofive fublimate, may fometimes be added to advantage, if an ulcer has been in a very irritable ftate, and it is apprehended may not have been perfectly digefted.

Some of thefe phagedenic ulcers with a very large furface, and of very long ftanding, are of a nafty greenifh hue, exceedingly foul and indigefted, and fo painful that they cannot endure the tedious process of ordinary deterfives, but as hath been observed, are exceedingly aggravated by them; they are cleansfed, however, in one or two dreffings, by some such lotion as the aqua phagedænica, for the lotion that passes under that name, is too ftrong to be fasely applied with freedom to very large surfaces race or race of ung. Bassler furfaces are thought proper, the ceratum citrinum is one of the most powerful, or an ounce of ung. bassler flav. with a fcruple of the mercur. corrol. fublim, will form

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

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an excellent deterfive. They fometimes, however, prove very painful applications, and ought never to extend beyond the fore, as they 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 deterfive lotion, to diftinguish it from that I formerly mentioned, and confifts of a mild folution of fal. martis, with a very fmall portion of merc corrof. fublim. 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 difpofition to bleed upon every touch of an armed probe; which by the by, is fome times used more freely in wiping the furface of fores than is fafe, and generally much more than is neceffary.

This lotion is very fimple, yet is exceedingly deterfive, and by means of its bracing powers, gently corrugates

rugates the furface, and by kindly urging nature to action, gives it a florid and strawberry appearance, but without leaving that dryness 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 used 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 difeovered ; fuch an one, as will not only brace, but cleanfe the fore, and preferve a pleafant appearance of its furface, whilft it difpofes 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 disposing them to contract, prepare them to cicatrize at the edges of the fore.

Such, it is thought, is the folution frequently hinted at, and that it will often answer all the purposes required in large and obstinate ulcers. It may fafely be ufed to every very large one, and in perfect confiftence with the plan of not compelling them to dry up, if it is not used too early, or continued too long; and which the prudence, and experience of the furgeon will determine. This is made of the vitr. virid. ad albitudinem calcinatum, diffolved in aq. font. and prepared

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of fuch a ftrength, according to the nature, and extent of the fore, as the practitioner shall think fit.

This folution is a very powerful, though perfectly fafe remedy, and together with the other means, has been hitherto fuccefsful in cafes, which I think I fhould not have conquered without it. But it fhould be only in the hands of furgeons, who will vary its aftringent quality and ftrength, to the circumftances of the cafe, and will not attempt to dry up old ulcers in the mode of empirics: for if made of an improper 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 undigefted ftate, and unfit to be healed—but fitnefs and fafety are not the objects of that clafs of practitioners, and to whom therefore a little knowledge is a very dangerous thing.

Thus far fome experience may be faid to have gone, but how much farther this plan may with fafety and advantage be extended, it is time only can prove: I am of opinion, however, from what I have feen, that the treatment laid down in these pages, may be applied to fome ulcers attended with a caries of the bone. But I defire to acknowledge, that I have not yet had opportunity of proving it, where I have been certain the bone was affected ; which it is well known, will fometimes throw off a fmall portion without being perceived in the dreffings. However, when the ulcer is only of a moderate fize, and the injury has not penetrated fo deeply into the bone, or the pain and inflammation are fo great, as to render a very long confinement abfolutely neceffary; I think I may judge from analogy, the methods

thods proposed will fucceed in a variety of cases, wherein art has prevailed at length, under the circumftances of reft, and the horizontal polition of the limb. 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 on the other hand, have a very confiderable advantage through the reft of the cure ; for as a degree of inflammation is the process, by which nature throws off fphacelated portions of bone, it being perfectly fimilar to that which takes place in the fofter parts of the body, I may venture to think this procefs may go on better, and if it fucceeds, far more fafely, with moderate exercise than by absolute reft, as the cure is likely to be more lafting, if not fo expeditious, this way. 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 clofeness of the place, or the patient accidently taking a fever *. If these risks could be avoided by the patient being, with fafety, permitted to take as much exercise a part of the day, as might maintain him during his cure, perhaps now and then a limb, or a life might be faved ; or, at least, the attempt, it is hoped, might be justified.

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

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But after all that can be faid, the neceffity of amputation, in fome cafes, cannot be difputed; but if I am not greatly deceived, there is reafon to hope fuch will not often occur, after this method fhall have been for fome time adopted. For patients will then have been informed, that fore legs are cured without confinement from their families or labor, and that fo cured, they will not be afterwards liable to return, but from the fame caufes that produced them at first. These confiderations will, probably, encourge most patients to feek advice very foon, and though fome of the poorer amongst them should procrassinate longer, many may nevertheles get effectual help when they apply; which will be likely, at least, to prevent the difmal effects of a mere temporary cure.

Befide the few cafes which, but for amputation, are beyond the reach of art, others have been mentioned, which manifefting the exiftence of internal difeafe, with morbid affection of fome of the vifcera, where it has always been prefumed an external drain must prove ferviceable, it may become a matter of doubt, whether their cure may be fafely attempted *, or the fubstitution

to and then a limb, or a ble might be fuel ;

* Ulcers attending the leg in old people, ought to be looked upon as critical, and therefore fhould not be healed. LE DRAN. So HEISTER, and many other eminent writers.—The opinion of AVI-CENNA is fo very emphatical, I hope I shall be excused if I give the quotation. "Sed in fenioribus non fanantur eorum ulcera—et quandoque fanantur, deinde refeinduntur, quoniam non generatur in eis caro,

of iffues be a fufficient fupply in their flead. Here the phyfician ought to be confulted, and indeed it were to be wished this was much oftener done in furgical cafes, than it is ; he would furnish the furgeon with some useful hints on various occafions, and whilft they proceeded pari paffu together, the patient would not have to repent it in the end .- But in the prefent inftance, fhould they be of opinion that the discharge from a large iffue would be inadequate * to the drain from the ulcer, they may perhaps be in the right, and the patient will probably chufe to err on the fafe fide. There are certainly facts which favor either fide of the argument, and therefore fome latitude must be allowed, and the diferetion of practitioners must determine in particular cafes. Wifeman, for inftance, gives us a remarkable one (book 2. ch. ix.) of a young woman afflicted with a bad ulcer

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 ftanding 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 difposition to break out again.

* See BELL on ulcers part 2. § 2. on the nature and quantity of pus difcharged from a common iffue-add to this, the very moderate difcharge many ulcers furnish when left to themselves, or dressed as they usually are by paupers, with a little very bad cerat. epulot. But reasoning from facts, it appears full as probable, that the advantages of natural, or artificial drains, arise more from irritation, than the difcharge from the fore. See Introduct. pages 37,38. on her leg, which for a long time refifted every means ufed by himfelf and others, on account of fupprefied 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 many ulcers have been cured where the bad confequences apprehended have not enfued, nor, as far as I could learn, have they ever broke out again.

Some caution however is neceffary, but it confifts in very few things, viz. purging, temperance, and continuing the bandage for fome time.

Though purging has been fo ftrictly forbidden, with a view to invite the ulcer to heal, during which procefs, to prevent conflipation is all that, in general, fhould be aimed at ; yet when the cure is nearly accomplifhed, fuch a courfe is fuggefted with the greateft propriety. A few brifk purges, at convenient inter-

counter ande 110 corn

* That this, and many of WISEMAN'S beft cures were effected by a tight bandage, and often by a free use of precipitate, is exceedingly apparent.—Speaking of ulcers with great loss of substance, which he dreffed with basilicon mixed with precipitate, (which he there observes he usually carried in his falvatory) he expresses himfelf thus.—" I then rolled it up with expulsive bandage, the cure " indeed confisting mainly in the well rolling—by the use of it, both " the influx was taken off, and the member strengthened." And again ch. 8. on the ulcer with callous lips, he fays, " the speedy cure of this " I imputed to the laced-stocking, it performing all the intentions " neceffary to the curing of many fuch like ulcers."

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



BEFORE I close this little work, I shall venture to offer a few practical observations on another species of trouble ome ulcers.

When I began to reflect on the great advantages that had refulted, in many bad ulcers of the legs, from a bold ufe of the mercur. corrofiv. ruber, and of fome digeftive ointments of a warmer composition than those in common ufe, 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 which experiments has, indeed, exceeded my expectations, and I can now venture to recommend them to the trial of others, and particularly, in cold glandular tumors about the neck, fuppofed generally to be of the fcrophulous kind; which however, frequently appear, and break into very troublefome fores, without any other marks of that dreadful complaint.

I was 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. I found 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 with all the advantages I almost could wish.—If the fwellings are at all disposed to come forward, but are not broke, or have only a finall orifice, I always hasten the maturation, and the disfolution of the stin as far as it is discassed, by means of epithems made of honey, flour, and yolk of egg. I am very little concerned to what extent the fore shall run, as I know I shall have much

much diftempered gland to deftroy underneath, and that if the latter be not effectually done, the fore will either not heal entirely, however fmall it may become, or will foon break out again. The fcars, however, are even fmaller, than when the ulcers are treated in the ordinary way. For the fkin, in this part, being thin, frequently loofe, and yielding, the tumor beneath it removed, and the fores healing up much fooner than under the lenient method; I have known them, when cured by the above means, leave no more than a feam, and a little rednefs to be obferved afterwards, without any proper fcar on the part.

The only difagreeable circumftance that can attend fuch a practice, I apprehend, is the poffibility of a falivation, of which I can fay only, that it has never happened to me; though before I relied fo much on external means as I now do, I have given mercurial medicines in 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 fymptoms of it appear, every practitioner, as he will know the cause of it, will immediately take care not to increase it.

I am now however perfuaded, there will generally be little or no occafion, for administering mercurials inwardly, or any other medicine under the idea of an alterative, (at least, I am afraid, we know of none adapted to the difease) much less for frequent purges, which ferve only to reduce the vis vitæ, which, in these cases,

is always too languid already. I find likewife, the fores heal up as kindly without, as where mercurials, antimonials, cicuta, neutral falts, or fea-water are made ufe of, all of which I have formerly prefcribed with great freedom; and I cannot doubt, that the plan I mean to recommend, (when the lungs are not affected) will be very frequently fuccefsful in the hands of every other gentleman, who will give a fair trial to it.

If the patient be unhealthy in other respects, such medicines should be directed as appear fuitable to his complaints, when the bark will, I believe, be frequently found as useful as any; and I have met with one very evident inftance of the efficacy of a ftrong decoction of the woods, and crude antimony. But in a general way, I depend upon nothing fo much as procuring a good and early maturation of the tumors, and fuppuration of the diftempered skin and glands, by means of the aforementioned epithem; a very bold and continued use of the precipitate; a nourishing diet, and as much exercife as the patient can well bear ; efteeming walking the beft of all. To this end, the patient fhould 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 exercise in a way that shall be quite agreeable, to increase it daily, till he goes to bed every night exceedingly fatigued. The advantage of this*, I have had fuch proofs

* Nihil est, quòd utilissimam supersui et nocentis humidi perspirationem tam egregiè juvet, quam motus corporisque exercitatio, qua

proofs of, as leave me no room to doubt of the propriety of venturing to recommend it, as far as fuch experience may be supposed capable of doing it.

To obtain the advantages that have been hinted from the use of the precipitate, scrophulous ulcers should 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 an use of it, will be a change in the discharge, both in quantity and quality, which from having been too little, or from an abundance of corroding fanies, will be changed to a moderate discharge of good and laudable pus; and the fore, except when a flough is produced by the application, will always look clean. In a little time there will alfo be a favorable change in the parts contiguous to the ulcer, the fwelling will fubfide, and from a red and heated appearance, the furrounding fkin will acquire its natural color, and the patient himfelf, or his friends, will be able to judge of the favorable turn in his cafe.

I have advifed a daily use of the precipitate, which indeed I intend almost literally; for when a good deal

qua tuendæ fanitatis vix præsentius datur auxilium.—Peregrinatio ad omnium falubritatem pertinet, quia non modo cum continuo motu, sed frequentiori etiam aeris in falubris in falubriorem mutatione conjuncta est, quæ tuendæ fanitati et corpori a pluribus morbis præservando egregiè velificatur.

HOFFMAN. De Motu optimo Sanitatis Præsidio. Cap. 9. et seq. of

of the gland has been deftroyed, the fore and furrounding fkin will be found to contract under the use of it, as if an aftringent application was made use 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 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 abfeefs is burft. But fince fcrophuloustumors, and particularly those of theneck, almost constantly end in suppuration, 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 diffempered; I can confidently advife the early use of the suppurative epithem*. It will be a means of preventing many of the fad effects of leaving them for months, and even years to themfelves, in ha-Lits of body fo ill calculated to get rid of difeafe; and wherein medicine is univerfally acknowledged to afford fo little affistance.

* Hence, probably, it is that the Malvern-Waters have fometimes proved to beneficial in these cafes. See the note on Malvern-Wasers-page 102. But

But should a schrophulous tumor in this part be unufually large, it may be treated in a fomewhat different manner; it fhould, however, be speedily brought to a 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 confiderably diffolved. On this account, there will not only be less occasion for so bold a use of the precipitate, but the extent of the tumor being confiderable, it will be of consequence to preferve a good deal of the skin, if there is no objection to doing it. Therefore, if that is not in a very bad flate, (which it frequently indeed is, before these cold tumors 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 tumor, fufficient to pafs a feton through it; or it may be done at once by a fmall feton-needle, armed with a flender fcane of cotton or filk. Befides every other advantage of this method of difcharging the matter, which will also be gradual, is the exclusion of air; a point scarcely enough attended to in the treatment of absceffes. The seton being introduced, should be drawn up and down at least twice every day, and fometimes be moiftened with fome proper deterfive ointment; and occafionally fprinkled with precipitate. The conftant irritation of the feton, will tend to diffolve the remaining hardness of the glands, far more than any common poultice, which frequently ferves only to deftroy the fkin without affording that flimulus to the parts underneath, which this fore always requires. The irritation of the feton will also dispose

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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 tumor; 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 fhould be gradual, by removing a few threads at a time,) and yet no frefh hardnefs 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 extract. faturni, which by this means will be thickened to the confiftence of a liniment, and becomes a very ufeful application to many other very troublefome ulcers; of which I firft faw the good effects fome years ago, in a very different cafe, under the direction of Mr. *Watfon*.—If the edges of the punctures become callous, a few touches with the lunar cauflic will foften them, and difpofe the punctures to heal.

If I might be permitted to offer any further hints on thefe troublefome fores, and to judge from fome favorable circumftances joined to a little experience, I fhould hope the laft mentioned method will afford fome confiderable affiftance in fome fcrophulous abfceffes about the joints of the upper extremities, if the patient be likewife fent to the fea; which I have feen attended with the happieft effects.—As for those on the lower ones, befides every other difadvantage they labour under, that of

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of depriving the patient of good air and exercife, forbids me to expect any very material improvement upon the common method of treatment.

These things are all I mean to propose for these illconditioned tumors, which, I believe, 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; unless in fome inflances, it be sea-bathing, the great advantages of which are extreamly uncertain in particular cases, and to be known only by the trial of it: every practitioner having often found his utmost expectations exceeded by it in fome, whilst in others, his patients have returned from the sea much worse than they went there.

It is not unlikely, that fuch an use of the precipitate as I have now been recommending, may be already known to other gentlemen of the profession, but it is certainly not the common practice, nor has it, I believe, ever been made public; and from what I have known myself, and been informed of by others, of the fuccess of ordinary means, I can venture to fay, that the cure will often be more expeditious and certain, as well as less unpleasant, if the plan should be generally adopted .----It is fcarcely neceffary to add, that after the cure, or just before it is compleated, 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 exercise for a time .- Should the patient have been fubject to ophthalmia, or have other mark of scrophula in the habit, he must pass a fummer at the fea.

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BEFORE

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BEFORE I speak of the milk-abscess, I shall in this place observe, what perhaps some gentlemen may thank me for, that I can venture to fay, the aftringent folution I have fo frequently recommended, is the best application hitherto known for that obffinate 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 a few times in the day, either by the point of the finger, or a camel-hair pencil; the part being afterwards covered with the patient's hand, or other contrivance, to prevent the folution being wiped off; the ftrength of which must be determined by the degree of tenderness and extent of the fore. I think I have found fome advantage in these cases, and certainly, in drawing out a bad nipple, by covering it with a large nutmeg, hollowed out, 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 advife the ufe of it, as foon as the nipples begin to get fore. This is likewife, doubtlefs, the best time to have recourse to the folution, which has hitherto answered exceedingly well, ever fince I have been acquainted with it. In fome

fome very bad cafes, where the chaps are deep, and exquifitely tender, efpecially if of long flanding, it will be ufeful to cover the part with an ointment that is not relaxing, but moderately warm and drying; as any proper cerate may be rendered, by fimmering a little brandy in it. But my chief dependence is always upon the folution, which if properly attended to, will remove the complaint. It has alfo flood the teft of the Lyingin Hofpital, where it has been conftantly made ufe of at my defire for above a twelvemonth, 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 muft, in that time have taken place.

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 every other aftringent I have made ufe of always produces, 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 fhall take this opportunity of making an obfervation or two on

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this fubject, which though important, has not been publicly treated of.

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

When the above means are made use of in proper 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 process may go on, the breast will feldom fail to fuppurate. In this state, therefore, the plan ought very foon to be changed, in order

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 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 length of time taken up in that procefs, will be the fize of the abfcefs, and the time afterwards neceffary for its cure ; at leaft, this is pretty uniformly the cafe.

Of no lefs importance is the manner of treating abfeeffes after the matter is well formed. And here I am conftrained to oppofe the antient and common method of furgeons, that of making a large opening with the knife; which can feldom, or never be neceffary. This happy idea originated from the late ingenious Dr. *Hunter*, (to whofe unremitted labors in the improvement of his profeffion, as well as in many other inftances, the public is fo eminently indebted,) and I be-

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lieve that gentlemen in the department of midwifery, at leaft 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 profeffion, there are probably many practitioners who are not duly acquainted with it.

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

The above method of difcharging the matter, it was faid, is ufually the best; there are however instances, where

where I have though fmall punctures made with the point of a lancet have their ufe. Such are cafes, wherein the whole breaft is very hard, and the habit not difposed to form matter fo plentifully, as the indurated flate of the part seems 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 discharge as soon as they have vent. The little tumors will even fometimes fubfide, if an opening is not made foon after the matter can be felt; and the induration remains a long time nearly the fame. Poultices of more potential heat than those of mere bread and milk, are here, particularly, ferviceable, as well as light frictions with a weak volatile liniment; and fometimes a cautious use of the unguent. cæruleum ; which should not be forcibly rubbed in, but fpread lightly over the breaft. At this period, the exhibition of the bark is found ufeful in fome conftitutions; in others, finall dofes of corrofive fublimate; and I have fometimes found the decoction of farfaparilla, and powder of millipedes, or fweating with pulv. Doveri 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 al most infensibly run together, and occupy a great part

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of the breaft ; are always exceedingly hard, but are not ufually painful at first. The appearance, in fome inftances, is very alarming, but they all neverthelefs end perfectly well if prudently managed. I have been called to cafes of feveral months standing, where the breaft had entirely loft its natural appearance, had become hard in every part, flattened, and the nipple almost obliterated. When the difease extends to such a degree, suppuration must take place, and indeed is a defireable event, as otherwife mifchief would enfue; for I believe, an entire refolution of the tumor is not to be effected. Hence, faturnine applications, which have been much too indiferiminately made use of, are here highly improper. I have feen nothing fo ufeful as mild poultices, and a cautious use of the unguent. cærul. fort. from half a scruple to half a drachm, repeated pro ratione effectus, 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 unfavorable, and not to be diffinguifhed from incurable fchirrhi; which have neverthelefs got well in a very reafonable time; and the patients have afterwards fuckled children without the leaft inconvenience. In fuch cafes, more efpecially, the abfeefs when formed fhould always be left to burft of itfelf, the ufe of the knife having a direct tendency to increafe the induration of the parts, as well as to injure the ftructure of the breaft; and at the beft, it has been faid, is perfectly unneceffary.

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

The above hints are thrown together, as the refult of long experience both in the Lying-in hofpital, and in private practice; not, indeed, as a treatife upon abfceffes of the breaft, but as the out-lines of a pleafant and fafe practice, which every man of experience will know how to apply, and the young practitioner may poffibly profit from.

But in whatever way any fuch abfeeffes may be treated, and however preferable this lenient method is to the ufe of the knife, and to the large incifions frequently made, the milk-abfeefs will very often prove exceedingly painful, while the neceffary long ufe of poultices muft render this complaint exceedingly difagreeable to the patient. If the number therefore may be in the leaft diminifhed, by the fpeedy cure of fore nipples, fuch a remedy muft be acceptable, in a double refpect, to gentlemen engaged in the department of midwifery.—Perhaps furgeons in general may be glad to hear, that the aftringent folution is very ufeful in other fiftulous fores than those juft mentioned, and is alfo an excellent

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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 hospital use, (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 particu-Iarly St. Thomas's, but this is not only a very drying, but a cauftic application, and frequently offends lefs irritable fores than those of the legs, unless it be made extreamly weak; by which it will be rendered greatly inferior to the folution I have recommended.

BY way of conclusion to this little work, and with peculiar reference to the former part of it, it may not be amifs to bring the principal intentions into one view, as well as make fome apology for fo bold an attempt to fet afide the common remedies and applications for ulcers on the legs, and even to recommend a method, in many respects diametrically opposite to those in vogue; as exercise instead of rest and confinement; free generous diet* instead of a strict sparing regimen; and strong ftimulant ointments rather than mild poultices and cooling cerates.

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

If the fuccels of a plan varying in fuch effential respects from any hitherto received, should justify the hope entertained, the advantages will not be inconfiderable to men of pleasure or of business, but especially to the fuffering poor, who croud the public hospitals much more on account of these diforders than any others. If they can be cured without being obliged to leave their families, and that labor by which their families are fupported, it is thought one grand obstacle to their applying for relief in proper time will be removed: and the furgeon will doubtless be glad, on many accounts, to be faved the very difagreeable neceffity of receiving fuch objects into the hospital, many of whom can, with more fafety and propriety, be cured out of the house. But important and defirable as is fuch a defign, the author is aware of the obftacles there may be to the extenfive usefulness he has had in view, in rendering fuch a plan general amongft the very pooreft and heedlefs part of mankind, who are feldom faithful to themfelves. Satisfied however of many advantages it will have amongst 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 accomplifhed 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 farther improvements will be made by them.

He has, however, discharged his part; he has delivered his sentiments as the result of long attention to the fubject, and muft leave his readers to pass what fentence they please. In the mean time, it is his fatisfaction to have aimed at things, which it can be no crime to have attempted though it should not perfectly succeed; whils to have concealed what was judged likely to be of such public utility, would have been criminal in the eye of every benevolent mind.

It may be proper to add, that it has not been his defign to intimate that other furgeons are without their fuccefs in these cases, some 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 them without confinement, or probability of their return, it is pity the public has not been made acquainted with it. It would have faved the compiler of these sheets fome trouble; who had no fuch defire of appearing in public, as needlefsly to have exposed himfelf to the hazard of cenfure, for opinions he has fuppofed novel among regular practitioners. To fuch he now fubmits the foregoing pages, perfuaded they contain fome improvements. But should they, after a longer trial, be found inadequate to the end, and any other method be pointed out more rational, eafy, and certain, it will be the duty of every candid practitioner to adopt it. Till then, the author can only fay,

Vive: vale. Si quid novisti rectius iftis, Candidus imperti: fi non, his utere mecum.

ob and out a thory aid how Hor. Epift. 6. L. I.

THE END.

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