

Thoughts arising from experience, concerning the present peculiar method of treating persons inoculated for the small-pox. Relating to the preparation of the patients, the manner of the operation, the genuine nature of the disease ... the use of cold air, the effect of retarding or lessening the eruption, and of purging after it is over / By W. Bromfeild.

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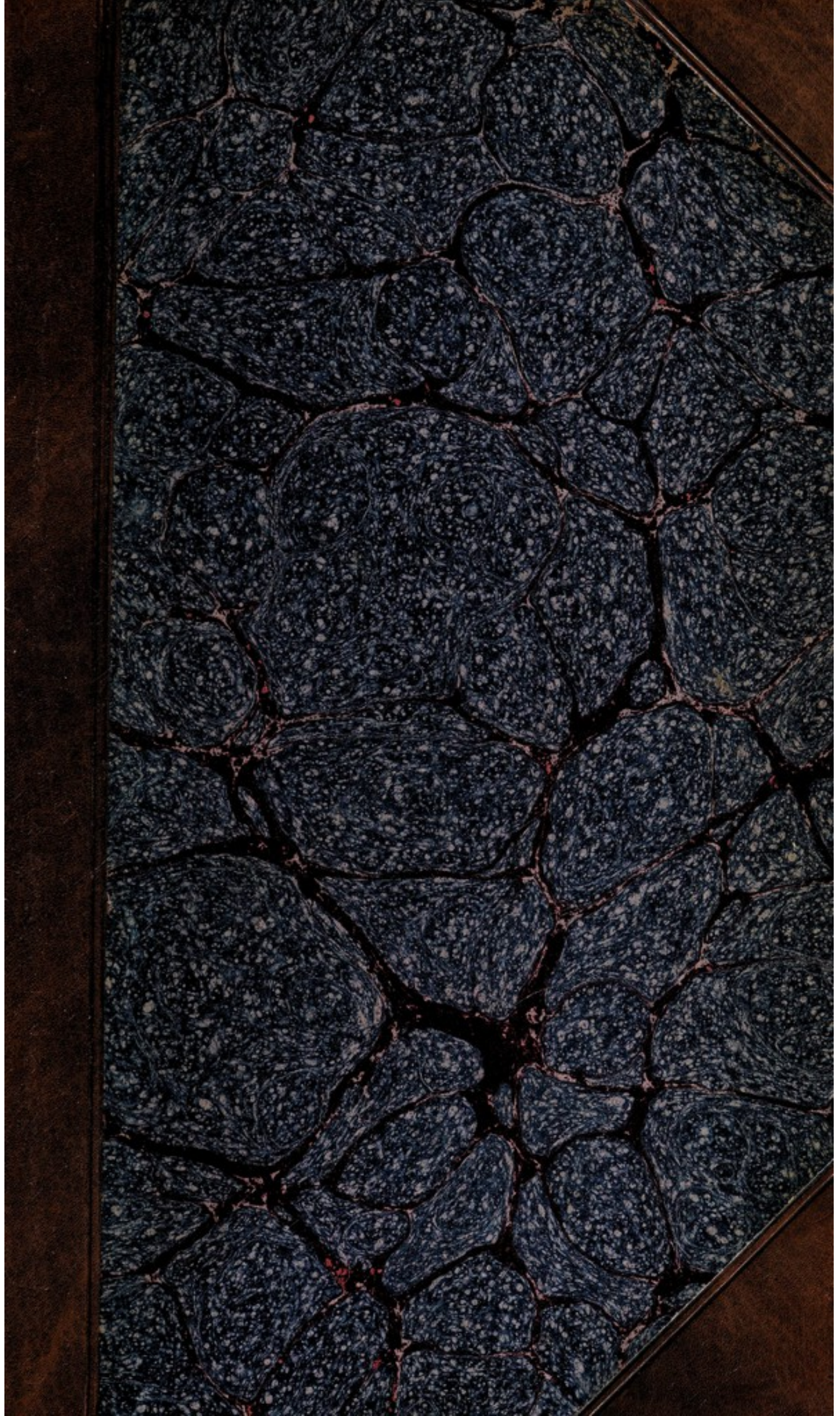
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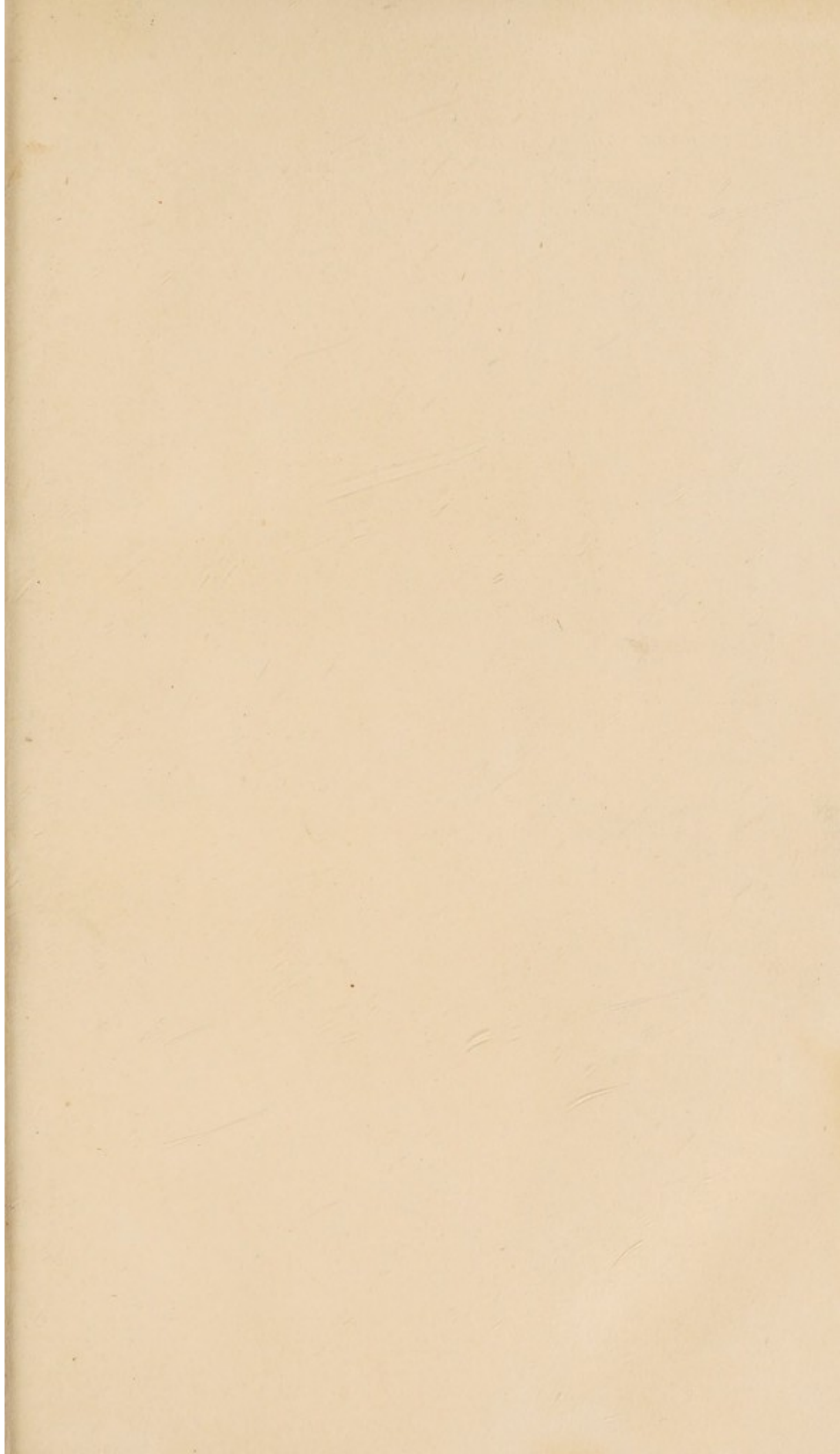
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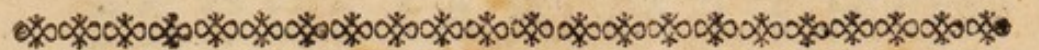
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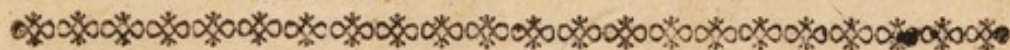


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THOUGHTS
ARISING FROM
EXPERIENCE,
Concerning the present
PECULIAR METHOD
OF TREATING
PERSONS
Inoculated for the
SMALL-POX.



(Price Two Shillings and Sixpence.)

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EXPERIENCE

Concerning the

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THOUGHTS
ARISING FROM
EXPERIENCE,
Concerning the present
PECULIAR METHOD
OF TREATING
PERSONS
Inoculated for the
SMALL-POX.

RELATING TO
The PREPARATION of the PATIENTS.
The MANNER of the OPERATION.
The GENUINE NATURE of the DISEASE, and
of some other ERUPTIVE CASES.
The Use of COLD AIR.
The Effect of Retarding or Lessening the ERUP-
TION, and of PURGING after it is over.

By *W. BROMFIELD*,
SURGEON to Her ROYAL HIGHNESS the
PRINCESS DOWAGER of WALES,
and to St. GEORGE'S and the LOCK-HOSPITALS.

L O N D O N,
Printed by H. WOODFALL,
For J. DODSLEY in *Pallmall*, T. DAVIES, in *Russel-
Street, Covent-Garden*; and sold by J. BROTHERTON,
at the *Royal Exchange*, and M. HINGESTON at *Tem-
ple-Bar*. M, DCC, LXVII.

40527



T O T H E

Q U E E N.

M A D A M,

BY your Royal Permission, I have the honor to lay this small TREATISE at your Majesty's feet ; not, from any vain thought of merit there may be in it, but, because of the very great importance of the subject.

I T is a matter, in which all parents are deeply concerned : To whom

whom then can it be so naturally or so properly addressed, as to the tenderest mother, and most affectionate parent of the people?

THE purpose of the whole has been, impartially to examine all methods, and by selecting what may be good, even from the worst, and separating what Experience has shewn to be wrong, even from the best; to lay before the public a practice which has hitherto been successful, though in neither extreme, adapted to the variety of circumstances as they may offer in different constitutions.

THE event of all things is in greater hands; the integrity of my intentions,

intentions, I hope, will appear ; and
in case I should be so happy as to
have procured some good to the
people, I am sure, I shall have done
what is most pleasing to the QUEEN.

*I have the honor to be,
with the most perfect duty,*

M A D A M,

*Your MAJESTY'S
most humble,
most obedient
and most devoted Servant,*

W. BROMFEILD.

[11]

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and most devoted servant,

W. BROMFIELD.

T H E
I N T R O D U C T I O N .

I FLATTER myself, when last I put pen to paper, as an author*, I appeared as champion for the safety of the people; not as a malevolent antagonist to the espouser of the particular medicine, but, only to remonstrate against the ravages committed by the indiscriminate and ignorant administration of it, by others.

I MAY easily be credited, when I assert, that public benefit *only* was proposed by me, at that time, as the subject could be in no wise interesting to me as a surgeon, and my giving away the copy, prevented even the suspicion of mercenary views.

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THE

* On the *Solanum*.

THE motives for the publication of that little treatise, I have reason to believe were sufficiently obvious to those who did me the favor to read it ; and the several editions it went through, in so short a time, afford a strong presumption of the *intention* of the author being approved of by the public.

I AM now to stand forth in a much more suspicious character, when I am to examine strictly the practice of others in the way of my own profession, and 'tis most likely shall hazard that good opinion I had obtained from the public, by endeavouring here to remove prejudices in favor of a practice they have adopted, without an examination due to the importance of the subject.

THE credulity of my countrymen has been justly the object of ridicule to foreigners, in some notorious instances, *viz.* the Rabbit Woman, the Bottle Conjuror, &c. and within these thirty years last past, a drunken woman could, by the report of her emissaries, and the adroitness of the wittings of that time, dispossess people of their understandings for a while, and persuade them that this poor ignorant wretch could by hereditary right, as a descendant from a country bone-setter, do more than all the
 most

most skilful anatomists, or most eminent surgeons of the time. To have attempted to turn the torrent by reason, during the fit of folly, would only have given strength to the stream; but experience did more toward the recovery of their senses than fifty volumes from the professors of surgery could have effected in the given time. Tho' these maniacal symptoms we cannot deny, yet, the *French* certainly caught the infection from some of the *English* emigrants then at *Paris*, or they could not have been so little *themselves*, as to have given credit to a man who should assert, he would give them a disease which should not produce one single symptom; that could characterise it from their usual state of health. I own, I am afraid that *Inoculation*, tho' hitherto a great blessing to our island, will, in a very short time be brought into disgrace, by the licentiousness of some of the present itinerant practitioners; for as the fashion is likely to spread in a higher sphere, a little ill success among the great will not be *totally* smothered, and we shall then hear of some truths, which will *for a time* deter people from giving their children a chance of escaping the ravages of the disease, when seizing the unprepared victims.—It is possible my apprehensions may be ill-grounded, but what I have here related is a practice built on the

authority of our best writers, confirmed by the experience of the most eminent of the profession at this time, as well as my own observations for many years ; if the present set of gentlemen who treat their patients when inoculated *in a very singular manner*, should by a candid enquiry among their friends chance to find out, that inconveniences have arisen from any particular plan they had adopted, I make no doubt but they will silently change their system, for the benefit of mankind, and their own credit ; and I do assure them, that I am equally open to conviction, and if it shall appear by the most authentic intelligence which I can procure from disinterested people, either in or out of the profession, that health and security from the disease, can be equally obtained by reducing the patients so low, as only to produce from 5 to 15 pimples, when the ferment is raised, by letting their patients be exposed to the inclemency of the weather, and checking maturation, as by promoting it by proper temperament of air, according to the necessity of different constitutions ; if experience should determine in favor of the former, I must submit.

SECTION I.

Of Preparation.

WE are told in a pamphlet lately published, by a very eminent and ingenious physician*, that Inoculation in several counties of *England* is practised by some adventurers as follows: “ All persons are obliged to go thro’ a strict preparatory regimen for a fortnight before the operation is performed. During this course, every kind of animal food, milk only excepted, and all fermented liquors and spices are forbidden. Fruit of all sorts is allowed, except only on those days when a purging medicine is taken. In this fortnight of preparation a dose of a powder is ordered to be taken, at bed-time, three several times; and on the following mornings a dose of purging salt. To children only three doses of the powder are given, without any purging salt. The composition of this powder is industriously kept a secret. But that it consists partly of a mercurial preparation, is demonstrated, by its having made the gums of several people sore, and even f-
“ livated

* *Dr. Baker's Inquiry, &c. p. 6.*

“ livated others. The Inoculator * says, he
 “ never found any ill effects arise from pa-
 “ tients being reduced very low, and that
 “ generally the lower they are reduced the
 “ more favourable is the disease.” Here I
 must beg leave to remark a great inaccuracy
 of this practice, unless all his patients are of
 the same degree of health and strength ; as
 a fortnight is the given time for preparation,
 and three doses of mercurial physic, to be ta-
 ken at proper intervals, during that period.

AN inflamed state of the blood is certainly
 a great objection to the operation being done,
 as experience has long since determined ;
 very malignant fevers having made their ap-
 pearance at the expected period of the va-
 riolous symptoms, which have carried off the
 patients, when the small-pox eruption has
 been of the most favourable kind, and few,
 but surrounded with petechiæ as numerous
 almost as the terminations of the excretories
 on the surface of the skin. I cannot say that
 I ever saw any ill effect from inoculating
 those who have been subject to scorbutic
 eruptions from an acrimonious state of the
 blood, nay, far otherwise, for a plentiful e-
 ruption, permitted to mature kindly, has
 often proved a perfect cure.

By

* *Lib. cit.* p. 15.

By way of preparation for inoculating, some people have kept their children extremely low, and purged them repeatedly at three or four days interval; others again have given calomel. Whether mercurial purges are always necessary, or advantageous, I cannot determine, as I only give them to children, where I apprehend slime, or worms in the primæ viæ; nor has my experience furnished me with authority for a *general* practice for its use in preparing patients for the operation. I own myself rather prejudiced against that plan of *sweetening* the blood, as it is called; as the worst sort of small-pox I ever saw from inoculation, was in some children that had been *thus* prepared before I saw them, and from the observations I have made, I really think, manifest injury has been done by dissolving the blood, and rendering it sharp and acrimonious, and is more frequently attended with a bad sort of small-pox, and more dangerous symptoms, than where less preparation has been used *.—
 The preparation used by *Rhazes*, was bleeding, swimming, ice-water, (which was likewise his beverage till the patient vomits and sweats in the attack of this disease), the coldest acid diet, juice of unripe grapes, and salads; the

* *Freind's Hist. of Physic.*

the receipt he gave of acids and spodium, was so much in vogue among the *Indians*, that they did not believe that any one who used it, could have more than ten pustules in the whole; the body to be kept open by some *lenient* cathartic infusion, which, he says, will make the pustules fewer, and this to be continued, if the distemper should be violent.

My general method is this, in children, to empty the bowels by two or three purges, at proper distances, before I inoculate, and as soon as the operation is performed, to abstain from all meat, and fermented liquors, to live chiefly on vegetables, and to keep the body open by some lenient medicine, or diet that will produce a stool, at least, every other day; and during the preparation, even to the time of the eruption, to take their usual airings and gentle exercise.—If the habit of body is such as manifestly requires restoratives, or otherwise correcting, Inoculation should be deferred till that is effected; Adults, indeed, require a stricter regimen before the operation is performed, and if plethoric to lose a little blood; and yet, with *all* the *preparation thought requisite*, it is certain, infection taken by the lungs, does not prove so mild as by inoculation, to one in fifty.

No general plan of preparation can possibly be laid down ; as three doses of physic may be too many for some weak children, and six may be too few for adults, that are robust and corpulent ; the judgment of the Inoculator should always determine as to the necessity of evacuations, and abstinence, or occasionally to invigorate by a more nutrient diet.

As instances of the ill effects of reducing patients too low in the preparation are not few, I may be permitted to mention one which was very remarkable : A gentleman of great fortune lately consulted an eminent physician and me, and told us, that his father, in order to render the disease as mild as possible when he was to be inoculated, was preparing him several weeks, by repeated purges, low diet, and every method to *sweeten the blood*, as it is called ; which soon, from a strong healthy youth, reduced him to a very weak state : he was then inoculated, and at the usual time was taken ill, but had only a rash, which never matured, tho' all the assistance of medicine, directed by people of the first rank in the profession, was given ; he was sent extremely weak and low spirited to school, and in a few weeks had an eruption that came out in blotches, or rather

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clusters

clusters of pimples, that matured; yet, notwithstanding this effort of nature to depurate the blood, he has not ever been healthy since, though many years have elapsed; but has frequently rashes that appear, and suddenly retire, loss of appetite, indigestion, his skin discoloured in several places with a sort of morpew on it, and is ever complaining, and his complaints are now called *nervous*.

THIS remark made me enquire amongst my brethren who had been most conversant with inoculated patients; and they all agreed, that the plan I have mentioned, *mutatis mutandis*, according to the circumstances of the subjects, was in general the best preparation.

WE often find people sollicitous to have the matter taken from the *natural* sort of small-pox to be inoculated with, supposing it to be more efficacious, than that taken from an inoculated person; while others prefer the matter from inoculation as less virulent, and likely to produce a milder sort of the disease; but to put this matter beyond doubt, an experiment was made with variolous matter, taken from a person who was the 14th in descent, from the natural sort first inoculated; by a thread wetted with this matter, 20 children were inoculated at the

same time, who had all undergone the same kind of preparation. Some of them had the disease very mild, and others rather severe; this certainly shews, that the whole depends on the habit of body of the person inoculated; consequently, the same kind of preparatory regimen cannot be proper in all constitutions. The quantity of matter introduced makes no kind of difference, as the smallest particle in some constitutions has produced almost a confluent kind of small-pox; in others, tho' legs and arms have been deeply incised and well filled with matter, the effect has been only a few pustules.

THE operation with these practitioners is likewise to differ from the practice that has been for many years established by people of the first degree of eminence in the profession.

S E C T. II.

Of Variations in the Manner of Inoculating.

IT is certain that great improvements have been made in the manner of inserting the variolous matter since the practice of inoculating was introduced in this kingdom ; at first large and deep incisions were made both in legs and arms, as if intended for issues, and crammed full of pellets of lint or cotton, well wetted with the small-pox matter : the difficulty of healing the legs soon made the operators confine their incisions only to the arms ; and experience at length taught us, that the smallest particle of matter would produce the disease, and that the slightest scratch, with a small thread moistened with the variolous matter, was as efficacious, when applied on the incision after it had ceased to bleed, as where the largest wounds had been made and much matter put into them.

THE method of inoculating, by the persons alluded to in *Dr. Baker's Inquiry, &c* * is this. “ The operator, he says, opens a
 “ pustule where the matter is in a crude
 “ state,

* Page 8.

“ state, with the point of a lancet, and then
 “ just raises up the cuticle on the outer part
 “ of the arm of the person to be inoculated,
 “ with his moist lancet.” But I have been
 told by a surgeon, who saw one of these
 gentlemen operate, that he wiped his lancet
 with the matter, on the part of the arm he
 intended for the insinuation of the variolous
 matter, and then passed the point of his lan-
 cet thro’ the middle of the matter, raising
 the cuticle as above described, and by the
 motions of the lancet, seemed to endeavour
 to get in as much of the matter as he could;
 “ this done, he only pressed down the raised
 “ cuticle with his finger, and applied neither
 “ plaster nor bandage.”

I WILL not insist on it that matter intro-
 duced between the cuticle and cutis is not
 equally capable of producing the disease as
 where a scratch is made thro’ the same
 integument sufficient to slightly wound the
 true skin ; but to risque the receiving it by
 the mouth and nostrils, in my opinion, must
 be wrong, or otherwise inoculation is ab-
 surd.

I CANNOT suppose any particular advan-
 tage to arise from this method of inserting
 the matter ; on the contrary, I am convinced
 by the experience I have had, that the in-
 cision in the usual way, that has of late years
 been

been practised, is *preferable*; if the disease is *given* in such manner as to answer *nature's intention* in the natural way—by this I mean where the patient has not been reduced so low as not to be able to throw off the load by a plentiful *suppuration* of the pimples, or has been retarded by exposing him to the cold air; but more of this in another place.—Now, in case there should be a load of humour to be thrown off, and a plentiful eruption is to be expected; every practitioner, as well as a parent, would wish it might be determined to any other part but the face and breast.

THE result of what I have seen from repeated experiments, is this; that in *the same* persons where I have inoculated *one arm* by a scratch of half an inch long, and laid on a thread wetted with the matter; and, in *the other*, inserted the variolous matter with the point of the lancet, as above-mentioned; at the time when I expected the persons would be taken ill, I as usual applied large pultices of bread and milk, with a little oil, from the termination of the deltoid muscle to nearly the bend of the elbow, totally surrounding the arm, with directions to change them as often as they became cool; by this method *begun early*, I have had the greatest number on the incised arm, especially about the incision,

cision, in almost every patient. But though the same applications were made to the arms *punctured*, according to the method practised by these gentlemen in the country; scarcely half a dozen came out there, when the *incised* arm of the same person was extremely full under the pultice; now what seems to give the modern *puncture* the preference by those that espouse the practice, is, that it only becomes a *pustule*, and is the last that dries and falls off. Yet, there can be no doubt but advantage *is* had from the discharge of the incisions, as the attempt to dry them up too early evinces, by the inflammation that comes round the part, as well as the lips thickening, and the sore becoming foul.

FOR this reason, a soft digestive cannot be too long continued, and the wound will readily cicatrize, when the inflammation caused by the disease is removed by proper evacuations, and cooling medicines.

S E C T. III.

Of the Nature of the Disease.

IN order to come at the proper method of treating inoculated patients, it will be necessary to trace the disease from its origin, through its various stages, in the natural way.

THE variolous seeds seem to be innate in the blood of every human being, in many parts of the world; and these, by a ferment, generally in some period of our lives, produce an eruption on the surface of the body, which at length become pustules, the matter soon dries and forms scabs, which drop off, and the disease is then at an end.

FROM the universality of this disease amongst mankind in most places, it seems, as if nature had some salutary end for the constitution, to be answered by this powerful depuration that the blood undergoes at such time, which often proves the means of carrying off some other disorders, and afterwards gives a better state of health to the person who has gone thro' it.

THE

THE disease is evidently contagious, and is more or less violent, according to the habit of body in which it is produced. The milder sort is termed *distinct*, the most malignant and dangerous, *the confluent*.

IT is advanced by a Writer on the small-pox, that whatever causes may produce inflammation to a high degree, may produce the small-pox; but if we could evade the causes productive of inflammation, or destroy the infection producing this species of inflammation, we might evade the small-pox. So *vice versa*, it might not seem unreasonable, to say, that whatever might bring on a violent inflammation, might again produce the small-pox.—This possibly may be carrying the point a little too far, yet, it is certain, that very high inflammatory fevers produce eruptions, that maturate; and some I have seen that have greatly resembled the pustules of the small-pox, tho' that distemper in *all* its circumstances, is very rarely known to come a second time in the same person.

THE prognostication that may be made is this, that in case the person is attacked with an acute fever, violent pains in the head and back, frequent reachings to vomit, and universal heat; there is reason to believe the

D

fever

fever will be attended with eruptions, and most likely the small-pox, if the person so attacked has not had the disorder.

SHOULD it prove the *variola*, and the eruptions make their appearance within the first 24 hours after the attack, it is of the confluent sort, and they generally prove fatal ; if within 48 hours, they run together, and are always attended with great danger ; if on the third day complete from the invasion, it generally proves a mixed sort, and if the eruption does not make its appearance till the fourth day complete, it is always mild and distinct.

THIS then being allowed, we may lay it down as a general rule, that the later the eruption appears, the milder will be the sort ; how great then must be the impropriety of giving hot cordial medicines to hurry out the pimples &

S E C T. IV.

Of retarding the Eruption.

HIGH health and an inflamed state of blood, when the infection is received, generally produce a most dangerous species of the disease, and the eruption is often within sixteen hours after the attack: From improper treatment, I am clear, that where nature, if left to herself, would have produced a mild distinct sort, but by inflaming the blood with cordials, blisters, &c. confining patients to bed *at first*, and heated air; the consequence is often a very bad confluent kind; so, *vice versa*, if symptoms that threaten a very malignant sort, are attacked by powerful and sudden evacuations, the person kept out of bed, in a cool air, and every method taken to abate the inflammation, the disease will be rendered mild, tho', possibly, not of a distinct sort.

IN support of this assertion, I will relate a very remarkable case, that happened in my own family, in the year 1740.

A CHILD about three years of age was attacked with the usual symptoms of a bad sort of small-pox, and from the great pain in its head and back, the mother thought it right to put him to bed; in less than twenty hours after he was seized, the most violent eruption of the miliary kind I ever saw made its appearance. Soon after a physician, who was at that time intimate in the family, called, and being told of the child's illness, he went up to visit it, declared it the small-pox, ordered it to be bled six ounces directly, and as soon as possible to get him several stools by purges of the cooling kind, with tamarinds.—This was done, and he had a dozen or more stools, and in the evening was bled again; he took nitre with barley-water at times in the night, or cheese-whey; on its being objected to the child's taking a second dose of purging physic, the next morning, lest the eruption might *retire*, and thereby endanger his life, by interrupting nature in her design of throwing off the disease by the skin, and, consequently, it might fall on some of the viscera; the Doctor made for answer, that unless we *could* make it *retire* for *three* days *at least*, the child would certainly die; if it could be kept back for *four*, it would be still better; and if he could succeed in his intention, that the small-pox would

would *then* come out in *clumps*, as he termed the next appearance of the pimples, not distinct universally, but in plotches, containing, perhaps, eight or ten distinct pimples; and that these clumps would be in various parts of the body. ——— The child was kept up the whole time, and the air frequently changed, the eruption soon disappeared, and as the Doctor had prognosticated, it made its appearance late on the third day, and the child was kept out of bed till it was complete; he then was put to bed, kept moderately cool, and the maturation went on as in the mild sort of small-pox, and he had not a bad symptom during the whole progress of the disease; he was purged as usual at proper distances, and he enjoyed perfect health, after his recovery.

THE singularity of this case, and the treatment of it being quite new, made me very desirous of hearing the Doctor's reason for his conduct. I told him, I thought the steps he had taken were rather hazardous; he then asked me if, as a surgeon, I would not endeavour to prevent inflammation running too high in any tumor, where matter was *intended* to be formed? I told him, certainly so, as it was always my practice in the *anthrax*. He said, in the small-pox, that an *early* eruption, with great inflammation, was like the *anthrax*,

anthrax, and must be so treated, or otherwise the whole skin would sphacelate, and no matter be formed; but, that the milder sort of the small-pox might be compared to so many *phlegmons*, which if the body is not too much heated, will certainly gradually be filled with matter.—I asked him why he was so rapid in his evacuations? He said, there was no time to be lost to give a chance for life; for if they were made gradually, it had the same effect, as too small engines would have on a house in flames, only serve to make it blaze with more violence. The case I related to several men of eminence in physic, at the time it happened.

THIS practice being so different from what I had seen, made me a little attentive to *Sydenham's* method of treating the small-pox when I inoculated; but such was the prejudice, at that time, in favor of cordials to assist nature, in throwing off the peccant matter to the surface of the body, that I am thoroughly convinced, by confining the patient to his bed, as soon as the first symptoms of the disease come on, and by endeavouring to support the eruptive fever, as also, denying any fresh air within the curtains, does always occasion the disease to be more violent, and as Doctor *Baker* justly observes, I make no
doubt

doubt but that this method has been fatal to thousands.

IT has been asserted, that where symptoms of the small-pox have come on, tho' the most violent evacuations have been made, and the patients exposed to the cold air, nevertheless, though it *retarded* the eruption, yet it never could prevent it; if so, and, that the later the pimples appear, the more mild will be the sort; I should think those will be in the right who keep their inoculated patients up in cool air till the eruption is *complete*, and their bodies kept soluble by proper food or medicine, as occasion may require. So far I agree with the antient practitioners and modern adventurers.

FROM the time of infection to the commencement of the eruptive fever, I do not permit patients of a plethoric habit to eat animal food, but to live on vegetable diet, with toast and water, or barley water, by way of drink at their meals, and tea or thin chocolate for their breakfast; if, at the usual time I do not find the incisions look florid, and the lips thickened, or hard to the touch, I frequently recommend chicken for dinner, and add a little wine to the water at that time, to some tender children whose circulation is languid; but in general, wish that
the

the body may be kept open by the diet, or some gentle aperitive.

AN itching about the incisions is the first symptom of the infection being taken ; and a pain in the axilla is generally the fore-runner of the eruptive fever. This pain is succeeded by a languor, rigors, quickness of pulse, tongue dry, with a pain in the head or back, which will go off for a time, and then return again with violence. Though it is remarkable, that great pain in the back is a very alarming symptom in the natural small-pox, yet from inoculation it is not always so, as it generally goes off on the eruption being complete, as well as every other complaint made on the first attack of the fever.

DURING this feverish state, the breath is very offensive, and, I believe, contagious, and the incisions become little sloughs, but do not discharge ; there is sometimes an efflorescence on the skin, attending the pimples on their first appearance, but this generally goes off at the time the matter appears in the pustules.

SOMETIMES there is a sort of rash mixed with the true small-pox pimples ; and if the symptoms of fever do not run high, this is

not dangerous; but now and then there is an ugly livid appearance on the skin, in blotches. This is a mark of high inflammation, and patients in such case should be kept as cool as possible, with constant change of air, and diluted plentifully with small liquors, well acidulated with gas sulphuris, or spir. vitrioli; otherwise there will not be any matter in the pimples; for cordials *at this time*, will turn the whole skin into a slough: But when the matter begins to distend the pustules, those livid blotches generally disappear, and blisters often become necessary to fill those on the extremities: when the face subsides, and the pulse is languid and low, even *a little* sack may be proper to keep the matter on the skin; when maturation has seemingly been at a stand, and the pulse feverish, a stool or two procured by a clyster has immediately filled the pustules; tho' purging medicines at this time are thought hazardous, yet I have always found advantage from the body being kept open; at least, we should not suffer costiveness to continue in any period of the disease. But from the very beginning, it is observable, that *Sydenham* leans towards the cool method. "If my own Son, says he*, was to have the small-pox, (unless something extraordinary was to happen) I would not suffer him to keep his bed till the first appearance of the eruption,"

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or

* *Lib. cit. p. 34.*

or rather, I should think, till the eruption is *complete*; “ nor would I allow more fire in
 “ the room, or more cloaths on the bed,
 “ than what he is accustomed to, when in
 “ health. *May, June, July and August* *, it
 “ seems, are the months preferred as the most
 “ seasonable” for the new method, and are
 certainly, the properest for the operation, if the
 patients are to be turned into the street as soon
 as any eruption has made its appearance.” We
 do not find that the pimples in general ma-
 turate, and indeed, it seems not to be the ob-
 ject of the inoculator, the eruption is the
 whole of his care. †“ No confinement, even
 “ to the house, was required, except during
 “ a few hours, while the fever continued.”
 For after *that*, they are turned out of doors,
 to do as they please; and if prejudice does
 not bias those who *had* inoculated the most,
 preference was always given to the *Spring*
 and *Autumn* as the most moderate weather;
 and if the intelligence of *Dr. Monro* is to be
 relied on, the coldest weather is no objection
 to the operation: Now the conclusion must
 be, that there cannot be any exception to
 any month in the year, and tho’ it may seem
 extraordinary *that many of the inoculated*
 people went abroad barefooted in the nor-
 thern parts of *Scotland*, we might as well
 quote some of ours that did not wear gloves.

S E C T.

* *Lib. cit.* p. 7. † *Lib. cit.* p. 18.

S E C T. V.

Of the Effect of Cold Air.

HERE I must again dissent from those gentlemen who act on the above plan.

THE intention of inoculation is to raise such a fever by the insertion of variolous matter, as may bring about that depuration of the blood, which nature seems to intend by the disease in the natural way, with this advantage of having prepared the subjects for the reception of the variolous particles, and by knowing the stages of the disease, being enabled to keep it under our dominion; and as lessening the heat and inflammation in the eruptive fever is of the greatest service in rendering the disease mild, so when once *the eruption is perfect*, which we may be assured will be by the end of the fourth day from its first appearance, (tho' the greatest push is generally made in the third night) I then generally recommend my patients to be kept in bed, if the weather is cold, as the warmth of the bed cannot *at this time* alter the *species* of the disease, nor increase the number of pimples,

but must, like a general pultice, forward *the maturation*, which seems to me to be the general advantage that should be expected from the disease.

I AM aware that both in the natural sort, and that from inoculation, there is a warty kind that do not become pustules: this may be owing to the want of the *vis vitæ* that is observable in weak patients, and I am fully convinced, that too long preparation, especially in weakly children, has prevented nature from making that salutary depuration of the blood, that she most likely would have done if left to herself, as is observable in the case, *p. 9.*

I HOPE I shall not be misunderstood here, as it was farthest from my intentions to deprive the patients the advantage of *breathing* fresh cool air; I only mean to keep the *pimples* in that state, which will forward maturation, and not by exposing *them* to the very cold air, either retard *them* in their suppuration, or totally prevent it.—However light the gentlemen who are accustomed to turn their patients into the street, as soon as the eruption is perfect, may make of this, I will appeal to the observation of every man who has attended this disease, that often on taking up patients to make their beds, by checking of perspiration and exposing the tumefied pimples

ples to the cold air, that rosy hue that encircles each pimple has vanished, and the patient has become sick, with pain at the stomach, and often reaching, sometimes faintings, which on being put to bed, and a *necessary cordial then administered*, has all gone off again.

THE bringing to life people that have been suffocated by noxious air is no new thing, if fresh air is timely administered. Whether their appearing as dead, was owing to drawing in the pestilential air from the mouth of a ventilator, or the putrid and stagnated air of a well, or that confined within the curtains of a close room, in the most malignant kind of the confluent small-pox, the cause is the same, and the same remedy will almost as constantly relieve, and revive the patient; but still we do not find the patients left out in the streets, or carried into a cellar, or laid without a shirt, by way of bringing the pustules forward.—The heat, as I have said, is often too great to effect it; I have often seen spirit of vitriol, decoction of the bark, with some neutral salts, or even a clyster to give a stool at that time, in a few hours plump up the pock, which, for some time before seemed in a state of rest.

IF the fever is increased by restlessness from the foreness of the pustules, the same advantage, after a stool, will be obtained by opiates acidulated with the *elixir vitrioli*.

IF *Sydenham* does allow that the cold air retards the eruption, will it not for the same reason prevent maturation of the pimples? or is it a new doctrine, that in case matter is hindered from forming where nature intended, to have it fall on some other part? or is it not universally known, that *matter* will retire and be translated to a very distant part? If so, to encourage it forming on the skin, and keeping it there till it dries away in scabs, as is the natural progress of the disease, should, I imagine, be the plan of giving the small-pox to the advantage of the patients.

I AM strongly of opinion, that the disease may be suppressed for a time, either by reducing the patient too low, in the preparatory course for the operation; or by giving brisk purging medicines during the eruptive fever, which I have been told has frequently been the case amongst those who were inoculated on the modern plan, and had no pimples during this light fever; yet on returning to their usual exercise and diet they have

have had a plentiful eruption, which matured well, and proved to be the true *variola*. —In support of which, I will add a remarkable case which was under my care last autumn : A child about three years old, of a lax habit of body, after being prepared as usual, was inoculated in both arms, by a thread which had been well wetted with matter, taken from a subject, the parents of my patient had the highest opinion of : after the operation was over, I perceived the bottle in which the thread was brought to me had a dew on its inside, on smelling to the phial, I found it was lavender-water which hung about its sides. I then told the lady who was mother of the child, I was apprehensive that it would not take, as possibly the spirit might destroy the activity of the matter ; the thread remained on the incision 48 hours, and came away *quite dry*, which is not always a prognostic of its not having taken place ; however, there not appearing the least sign of infection either on the incisions or in the pulse, in a fortnights time the child was inoculated again, with fresh matter, which seemed to have taken by the threads being moist when taken off, after 48 hours remaining in the incisions ; on the 4th day after the operation the arms were again examined, the lips of the wounds were thickened and inflamed, had discharged an ichorous

ichorous matter, and seemed to promise success to our second operation ; about the 7th day, symptoms of the eruptive fever came on, but a violent diarrhœa immediately following, the febrile heat abated, the inflammation of the arms went off, and every other symptom that portended an eruption of *variola* ; a few days after, on the purging being stopped, the fever came on again, the child was put to bed, and some cordial medicines were given, in hopes to raise a fever sufficient to throw out the matter on the skin, but the diarrhœa returning, our endeavours again proved ineffectual ; the child was then treated for the diarrhœa, and a more liberal diet was directed ; the fever then came on a third time, and the incisions once more threatened inflammation. In order to invite an eruption, more particularly to her arms, I ordered pultices to be applied repeatedly in the day, surrounding the arms from the axilla to the elbow : by restraining the purging by proper medicines, the fever was kept up for three days, and a plentiful eruption of pimples on the arms appeared on the second day of this last invasion ; the arms grew violently inflamed, discharged at the usual period, and the pustules became replete with matter, and dried off according to the common course of the disease. My opinion being asked, Whether I thought the child was safe

from the disease for the time to come? I answered, that in case the pimples had been consequent of the *first* feverish attack, and had matured and gone off, as on the last return of the fever, I should have without the least hesitation pronounced it the small-pox; but it was *my farther opinion* that the seeds of infection had been prevented from acting by the diarrhœas suppressing the fever from time to time; and, on that being stopped, the ferment having been again raised, the eruption succeeded, and I really believed the child had now had the disease and was very safe; however, if it was my own child I would certainly give it another trial to obtain security, the next year, when a younger child was to be inoculated. Since when, I have heard that the child has been inoculated again by the most celebrated of the wholesale dealers, and not the least change happening at the puncture, or any degree of fever following the insertion of the matter, he declared that the former inoculation had taken place, and the child was quite safe.

S E C T. VI.

Of other Eruptive Cases.

I H A V E been often surprized at the method of treating eruptions, in general, by *very many* people who profess physic, who, if they can but get rid of the pimples, rash, tetter or blotches, by bleeding, repeated purges, nitrous, or other cooling medicines, are extremely well satisfied on their disappearing, and suppose the cure effected; which, indeed, is so very rare, that I am amazed, the diseases appearing in some other shape soon after, does not strike them; such as, complaints in the stomach and bowels, pains about the joints, loss of appetite, cough, head-ach, being extremely liable to get cold, which, being owing to some *occult quality*, become *nervous* as they term it; some of these symptoms, returning again and again, from obstructed perspiration; and if advice is applied for, immediately symptoms are attempted to be relieved, and nature is seldom encouraged in carrying on the work she had begun.

I H A V E

I HAVE seen the most amazing success of pains about joints, and the nocturnal pains in venereal cases being instantly removed, by first bathing in warm water, and cleaning the skin well, and immediately afterwards giving a dose of *Dovar's* powder; a plentiful eruption has frequently been produced, according to the nature of the leaven; and by determining the humor to the skin, where nature had possibly made several efforts to get rid of the disease, but had been prevented, by too precipitately getting rid of symptoms; should the case prove venereal, the specific is known; any former eruption untimely suppressed, or not encouraged to spend itself on the skin, when it first appeared, should, (I am convinced from experience) be supported by sweats twice in the week, lying in blankets, during their operation; and by giving a strong decoction of the bark and sarsaparilla on the intermediate days, many have been restored to health. The great number of scorbutic sore legs that have been cured by a course of this kind, which had resisted mercury, bark, antimonials, and every other method that had been tried, has prejudiced me in favour of the plan, and where-ever I could trace, that the symptoms and complaints had been in consequence of a humor suppressed, and, every now and then, making efforts, but ineffectually

effectually on the skin; where this is the case, I hardly ever remember it to fail; and, in the progress of cure, generally some eruptions have appeared on the skin, and the patients have instantly been relieved from the other complaints. I have formerly offered my sentiments slightly on this subject, and have daily more reason to be convinced that nature may be *relieved*, by increasing some other secretion, in *lieu* of those obstructed, that is, palliatively; but I know that the patient cannot ever be restored to *perfect health*, till whatever glands may be obstructed, can be restored to their pristine offices.

S E C T. VII.

Of the Time of Purging.

THOUGH purging is often prescribed before the scabs are dry, yet that seems always a matter of necessity, and not of choice; for when the load of humor is too great to be carried off *by the skin*, nature spontaneously, very often determines it to *the intestines*, and saves the patient's life, if not prevented, by astringents; so when the pustules grow flaccid, and the matter retires, a powerful purge is often given with manifest advantage; but where we are told that fifteen pustules are often, and most frequently the fullest compliment, why in such a hurry for purging? *To prevent boils**, you are answered; why, that is honest; for it is highly probable, if the ferment is raised, and the blood not depurated by the skin, *those* would be the consequence, if not something worse: The residuum ought therefore to be carried off by the intestines.—But may we not ask, are there not ever instances of this *said enemy* being *only down* in the battle? and, tho' he may not ever be able to shew his face,

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* Dr. Baker's pamph. p. 14.

as he intended, in the character of the small-pox; does he not sometimes, after a little recruiting, teaze and torment in a variety of forms, so as to destroy the patients, tho' he is somewhat tedious in the execution?

THE management of patients, after the disease is seemingly over, is certainly of more consequence than is implied by the practice of giving a dose of salts.—Indeed, in case of a large eruption, *thro' the irregularity* of the patients, two doses may be necessary, but *all* who strictly follow directions, have the disease in so light a manner, as, I suppose, not to exceed fifteen pimples, *unless they desire it.*

HOWEVER, this is certain, that the blood becomes inflamed by the disease, often requires bleeding, cooling medicines, and asses milk; the acrimony of the humor that often shews itself, after the small-pox pustules are dried, demands some attention to prevent its accumulating or falling on some of the viscera; and the very gradually returning to their usual diet, when in health, is of the utmost consequence; for the benefit *from the sudden change*, from low to full diet is not so great, as is supposed to be derived from the reverse, in the preparation for inoculation.

IT has been thought, that infancy was the properest time for giving the small-pox to advantage; but the age of the patient is now no objection to the operation. The objections against children at the breast being inoculated, are so many, that I am surpris'd parents will persevere in that practice, after the dangers are laid before them; for the state of the bowels in infants makes them susceptible of disorder, from the slightest irritation, which often proves fatal: This may be brought on by irregularity in the diet of the nurse, or the affection of her mind, and will therefore produce convulsions, which, also frequently arise from cutting of the teeth, if postponed, till that chance is against the success of the operation. The point that induces many to inoculate, is, to prevent the havock frequently made on the face, by the malignant species of the small-pox, in the natural way: In this period of life, experience shews, that these subjects generally suffer most in their faces; for in order to keep the child quiet, when the fever comes on, its face is almost constantly pressed against the nurse's breast, which becomes a sort of cataplasm to the part, and induces a greater flux of variolous matter thither, so that it is in general the fullest part; besides, the heat of the nurse's body is greatly contributory to the malignity

malignity of the disease, as keeping the subject cool is the ground-work of success, till the eruption is complete.

I HAVE ever been of opinion, that when we induce the disease, to prevent the usual ravages in the natural way, we should most certainly give it under every advantage proposed, and not to hazard a discredit to the operation, from a disease peculiar to very young children, and *more frequently fatal to them, than the small-pox.*

OTHERS refuse not patients, if turned of fourscore, provided they undergo the usual preparation: The minds of adults are certainly more affected by the apprehension of danger, than childrens, yet the proportion of those that have miscarried, is certainly much greater in those at the breast, than in all others from two years old to fifty.

IT has been a disputed point, at what particular period of the disease, it is infectious. This cannot, I believe, be ascertained to the satisfaction of contending parties; but we have known children taken away from the servants, that attended them, on the first suspicious symptom of the small-pox, and though carried at a great distance from the person, who proved afterwards to have

the disease, have, notwithstanding, some days afterwards, been seized with it; this then must be in the breath; but the most likely time of receiving it, must be, when the air is most impregnated with the effluvia, which is from the time of the maturation, till the scabs fall off.

IT is certain, that apprehensions and surprize, will raise that ferment in the blood which is necessary to produce the small-pox; and this much more sudden, than where we know the variolous matter is inserted into the blood, for that seldom appears before seven or eight days after inoculating; yet, surprize is capable of producing it in a very few hours.

A REMARKABLE case of this kind, I was told by a physician, many years distinguished as the first in his profession, who said, that he was at that time attending a lady celebrated for her great beauty, who had received the small-pox, by being much frightened, by another lady the preceding night, at the play, who was sitting next to her, and observing a beautiful fair face, addressed her, by saying, Madam, I fancy you have not had the small-pox; to which, she answered, she had not; the other replied, I ought then to remove farther off, as I am but lately recovered of

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that disorder, tho' I had it very favourably ; the lady who had not had it, begged her to keep her seat, as she herself chose to go out, which she did immediately ; and within 24 hours, the most malignant small-pox appeared, that the Doctor ever saw.

THIS, it will be said, might arise from effluvia of the variolous matter ; but the next observation will put it out of dispute, that apprehensions alone, will occasion a ferment sufficient to produce the disease. A lady, who had not had the small-pox, going to see a friend in *Windsor Forest*, stopped her chariot at the door, and was going to alight, but was prevented by the lady of the house, who told her, she would not ask her to go in then, as her husband was ill of a fever, which they apprehended would turn out the small-pox ; she immediately went home, was taken ill, had the small-pox, and died : Now, here could be no variolous effluvia, as the gentleman soon got well, and had not the small-pox at that time.

I HAVE lately heard of great numbers that have suffered in their health, ever since they were inoculated, and treated on this modern plan : and of others, who, though they were thought secure, by-the operations they had

had undergone, have afterwards had the disease in the natural way.

THIS last accident, possibly, may only be in proportion to those who have been inoculated in the usual manner; and where from the discharge of the arm, and two or three anomalous pimples appearing, that have not matured, they have been satisfied, hearing that two are as good as two thousand, and have persuaded themselves into a security which has sometimes proved fatal; and, very often, tho' unjustly, brought disgrace on the practice in general, by people's asserting, that many have had the small-pox in the natural way, after inoculation. — Now, where the fever does not remain for three days, at least, the arms inflame, and the pimples become replete with matter, it is but right, always, to put people on their guard, to avoid infection, till the operation has been again repeated, and every circumstance necessary to ascertain the fact; for want of this caution, we are told, that many lost their lives in *Paris* after the epidemical phrenzy, for inoculation, in the new way there, which, in general, neither occasioned fever nor eruptions.

It has been asserted, by the enemies to inoculation, that more have died of the small-

pox, since that practice has been adopted, than ever died of it before, which, they prove, it is said, by the bills of mortality, for seven years last past; and may easily be credited, when infection is brought into every neighbourhood, and even turned, adrift in the streets, and sent into every house. This being the case, one cannot wonder at the contagion spreading, and that persons receiving infection in an improper and unprepared state of the blood, should fall a sacrifice to this indulgence of the patients, of the present set of Inoculators on the new plan.

THIS, sure will be hint sufficient to the humane, to guard against cruelties which often prove fatal, or else it will certainly become an object of those in authority, as was the case in *France*, and that owing wholly to the indiscretion of a celebrated inoculator, who gave the disorder *without the sensible effect*, of either fever or eruption; but, unluckily many of his patients soon after had the disease in the natural way.

I HOPE I have throughout the preceding pages made my remarks on the present practice of inoculation, without rancour against the practitioners; and, I am sure, my only purpose is, to come at the most safe method of giving the small-pox, and conducting pa-

tients thro' the disease, so as to obtain every advantage we expect from the disorder, in the natural way, without the danger that too frequently is attendant, when it is received by the lungs in an unprepared body.

IT is certain, that the great numbers who have been inoculated of late years, with the happy success that *seemingly* attended the practice, has, in a great measure, removed the apprehensions of danger from inoculation; *thus far* sure the public is obliged, to those gentlemen in the different counties, who have dealt, as we may call it, in the wholesale way; for by the preparation of the subject, the disease is rendered so very light as to be no ways alarming, and hardly any confinement is thought necessary.

IF we consider the disease, given in this manner, without the least risque of life, or loss of beauty, to the more delicate sex, or any confinement to the patients in general; can we wonder at a partiality in favor of that practice; if we could see *it only* in this light, it would be unpardonable prejudice in any to oppose it: But I have ever been dissatisfied with the accounts I have had of people being exposed to the cold air the moment *the eruption was perfect*; I should imagine, from most of their patients recovering, the adven-
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turers became intoxicated with success, and they then wantonly risked the future health of those who had put themselves under their care, merely from an affected *novelty*, carried to excess, which is almost always sure to succeed for a time, and, the people are often as much intoxicated by report in favour of any thing they are unacquainted with, as the wonder workers themselves: These people are not unlike the enthusiastic fox-hunter, who's horse having, to the surprise of every body, leaped over a river that measured seven yards; at length persuades himself that he can go over one that is fourteen wide, and cannot be convinced of the absurdity, till he puts it in execution, and finds himself and his horse in the middle of the stream.

BUT what is become of all our caution about receiving infection, by the head or lungs? or the *great objection* to inoculation, lest any other humor should be introduced with it? when the first person that offers, infant or adult, good or bad constitution, is now thought *a proper* subject to inoculate from, and not the least objection is made to the person, provided he has but the small-pox.

THE gentlemen who inoculate by the grofs, or by the hundred, I am told, think, if their patients have fo much of the difeafe, as the fever and eruption, and do not die, the fuccefs is to warrant the propriety of the practice ; to this, it may be faid, they have done all they pretend to ; it cannot be thought or expected that they fhould traverse the feveral counties again, to fearch for difgrace : But it certainly behoves all thofe who are well acquainted with the effects of this new plan, be they good or bad, to fend an authentic account, with the people's abode, that the public may be benefited in futurity, by adopting any real improvement, difcarding abfurdities, and eftablifhing a practice founded on experience.— This may very eafily be done, without mentioning the perfon's name that inoculated the patients. As it is the fartheft from my intention to injure any one, I fhould hope that every honeft man would rather rejoice to be led out of an error, than be offended at the conviction ; and would instantly difcontinue whatever would be prejudicial to his patients, either in prefent or in future, and chearfully adopt whatever might feem to their advantage.

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POSTSCRIPT.

SINCE the writing of the preceding observations, I have, with the greatest pleasure and attention, read over the treatise on Inoculation, by Dr. *Dimf-dale*, where accurate observations have been reduced to practice, without prejudice or partiality to systems; and the author, like an able and experienced physician, has varied his plan according to the circumstances of the case.

THE idle and even ridiculous reports, that have been so frequently propagated by the espousers of the itinerant operators, at first raised only a smile in the sensible part of mankind; but when histories of the good success were related by those, who became partizans to this supposed improvement in the practice of Inoculation, and not to the operator, the subject claimed the attention

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of the most eminent professors of physic, and surgery ; as well as of those out of the profession, who were objectors to the practice in general, from its ill success among some few of their acquaintance.

Too hasty conclusions often become alarming to the inhabitants of this metropolis, in *supposed* epidemical complaints ; for a few sore throats, scarlet fevers, or other diseases, happening within the narrow circle of a few intimate friends, immediately the disorder has the epithet *very rife* applied to it ; and if one or two of those should chance to die in a few days, it is termed *the plague*, whatever the disorder may be : though it had proved fatal to hundreds the preceding month, if not known to them, the weekly bills are supposed to contain nothing more than usual, and the town is as healthy as ever, in their opinion. 'Tis so here ; and we ought to be upon our guard, as to the foundation of such determinations.

By the new method of treating patients during the progress of Inoculation, danger was understood to be intirely out of the case, confinement no ways necessary, all seasons of the year alike, and neither time, nor sex, nor age objected to ; the number of pustules

tules was to be *ascertained*, according to the caprice of the patients : And *the rectors, churchwardens*, and overseers of the poor, certifying, for the truth of the operators, success of hundreds, in their respective parishes : Who then can doubt it ?

IN consequence of which, a few idle unengaged days were fixed on, for a party to be inoculated, with as little concern as formerly to be electrified.

FACTS, it was said, were stubborn things ; and so they are, but *audi alteram partem* is a maxim in law, and so it should be always, before hearsay accounts should be established as facts. When I have doubted as to the authenticity of what I heard, I could see a suspicion, that self-interest was the great obstacle to my credulity ; therefore, I said but little, and waited for better authority. I had so many accounts the last autumn, of the ill consequences of this practice, that I was determined to obtain a fair and candid account of the success, from the then fashionable and extraordinary treatment of patients inoculated in some particular counties nearest this metropolis ; hoping that from this enquiry, a general plan might be established, for the benefit of mankind, during every stage of the

small-pox, as well in the natural way, as from Inoculation.

SOON after, a pamphlet was published by the learned and ingenious Dr. *Baker*; and another by Dr. *Glass*, a very eminent physician, at *Exeter*; but, as they seemed to differ in opinion, as to the general conduct of the disease, and, have not established what I intended, I was induced to collect the remarks I had made from time to time, and to begin to methodize them for the press. I should have published them the latter end of last year, but hearing by some of my friends that Dr. *Dimsdale* of *Hertford* had inoculated many hundreds, and treated them according to the *new plan*, with the greatest success, and that he was then about to publish his observations; this private account being soon followed by an advertisement in the public papers, of the Doctor's determination of putting them immediately to press. I concluded, my intentions would be fully answered, as those who know this gentleman best, have always distinguished him as a most accurate observer of diseases, as well as eminent for skill in every other branch of his profession. I therefore returned my papers to their place, waiting in daily expectation of a fair and candid account of the Doctor's experience. The book has now
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appeared, and, I cannot say, I am at all disappointed: I hope the public will now be disabused, and take their time for reflecting on the absurdities that have of late taken possession of their understandings; and that the practitioners of inoculation, on the *new* plan, will not suffer themselves to be any longer misled by clamour and fashion, contrary to reason and experience.

As the Doctor *in general* seems to fall in with my sentiments of conducting the disorder thro' its different stages, I shall take the liberty of quoting some passages from his book, in support of what I have mentioned in the foregoing pages; and where my experience occasions me to dissent from him in opinion, I am sure of his excuse, as the *salus populi* is as much his intention as mine.

PAGE 8, the Doctor's reasons against inoculating at the breast are nearly the same as mine; * but, page 11, he adds another objection; the difficulty there is of making children of that age take proper medicines, and indeed, I might have added, or of finding out their complaints; and, certainly, as he observes, it is reasonable to conclude, that many infants die for want of medical help, by their
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* *Vid.* p. 39. preceding.

refusal of medicine, and not unlikely sometimes given improperly, from not knowing their complaints, but by guess.

PAGE 12, I freely and gratefully acknowledge to have received instruction from the Doctor's experience, that scrophulous and arthritic habits are no objection to the operation, no more than those of people who are intemperate and irregular. I have inoculated some who were supposed of a gross habit of body, who have come off much better than reason and inexperience prognosticated, and, as I have advanced *, *children of scorbutic habits have been benefited in their general health, by inoculation, especially where there happened a plentiful crop of pustules.* I therefore conclude, that what the Doctor has upon repeated trials found no ways hazardous, may be of advantage to the patient: I cannot but say, I have a sort of prejudice against undertaking a patient where the preparatory regimen does not bring him to that state, that I suppose most advantageous to receive infection; for certainly we ought not to set out with any manifest chance against success; but these are only *my sentiments*, and will carry no farther weight with them but as such.

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* *Vid.* p. 6. preceding.

PAGE 13, As to the seasons, experience tells me, that a room may be made sufficiently warm in winter ; and if advantage arises *from the inclemency of the winter* to inoculated patients, *the summer's heat*, I should think, would be an objection, though they were permitted to walk in the streets the whole time. —As for my own part, *that* is the only season I would wish to avoid, as we cannot always insure a very light sort, the hot weather is not so favorable as a cooler season.

PAGE 17. Here appears the sensible and experienced practitioner, in preparing his patients ; if in too high health to reduce, if too low to strengthen the constitution, and bring both to that standard of health, as may give the best chance for carrying the patient thro' the disease : This I have taken notice of before, as necessary, in opposition to the empirical plan said to be practised by the itinerant operators, who treated all adults alike with mercurials and salts, and children with mercury only.

THESE general rules are fit only for such kind of practitioners ; but the Doctor always proportions the number of doses to the age and strength of his patient's constitution.

I AM sorry to differ from the Doctor, in respect of the manner of communicating infection to a patient *.

WHEN patients sit in the same room with others who have the small-pox at the height of maturation, they generally become infected; to prevent which, this operation was introduced: And, I have known people who have thought, that the whole depended on preparing the body for the reception of the effluvia of variolous particles; and, in consequence of that, have paid dear for their experiments. I do not mean to disturb the peace of any who have suffered by these trials, but to caution others to be more prudent. Let them perform the operation in what manner they please, I am certain, that we cannot infect the blood twice with variolous particles, no more than one can fire a train of gun-powder at each extremity, at a small distance of time, from the first touch of the lighted match; nor is it material whether it is done with a single spark of fire or a red hot bar of iron; but whether the small-pox should be communicated by effluvia received at the mouth and nostrils, or by insertion of variolous matter into some wounded vessels, I believe cannot be a matter of doubt at this time.

PAGE

* *Vid.* p. 8. preceding.

PAGE 28, If matter for inoculation should be taken during *the eruptive fever*, it must certainly be from the place where it was inserted; but this I never tried, having always chose it from *a pustule*, during its state of inflammation round the *stool*, and before the matter is too viscid.—But one thing I can say from experience, that matter taken from the incision, after the pustules were dried, did not produce the disease.

As for application to the incision's disguising the natural appearance of the infected wound, I cannot say I ever found it; a piece of dry lint and some plaster, to retain it on the part, is less liable to irritate the incision, than if left to the rubbing of the shirt and cloaths; sometimes, indeed, I have thought any application unnecessary after the thread was removed, till the time of the eruptive fever. I have given my reasons for pultices on the arms, at that time, where the incisions were made.—Fresh matter is certainly the best, though I have succeeded by a thread that had been impregnated with matter nine months before; others, I am told, have kept it much longer, and have produced the disease by it when they have inoculated.— I know, that once when I was pressed for time, by the parents of some children insisting on

its being done immediately, that I sent to a gentleman of the profession, who had some by him, that he had kept only a fortnight; yet not one of four took the disease, tho' they were inoculated in both arms; and by fresh matter inserted in the arms, about a fortnight afterwards, they all had the disease extremely well.

I CANNOT find any particular light is to be obtained, by examining the state of the arm by a glass, or the naked eye, more than what I have taken notice of already; nor do I comprehend the intention of giving mercury at this period of the progress of infection, otherwise than to procure stools, and keeping the body daily soluble, I should imagine, will prevent inflammation running too high, at the time of the eruptive fever; but, *to prevent it wholly*, I should think, is destroying the intention of the operation. In case the circulation is too languid, and the patient too much lowered, I mend their diet, and increase the inflammation of the blood, in order to bring on the eruptive fever in due time—I cannot but say, that, till I heard of patients going about till the symptoms of the eruptive fever came on, I was so far kept in awe, by the practice of those, who had been before me, as to confine my patients on the same floor, with the rooms open, and the
air

air to be changed as they went into a different room, with this caution, never to hazard getting of cold ; but now I send them out to take the air and their usual exercise, and never permit their going into bed in the day, unless a sweat comes on, during the eruptive fever, *then* they drink warm liquor, but till then, cold barley water, or toast and water, as their thirst may require ; but in case there should not be any moistness on the skin, I always keep them up *till the eruption is complete* ; as for my treatment afterwards, I have already given my reasons.

THE Doctor's method at page 36, I think, does not differ much from the practice I have generally followed of late, except in giving " a mercurial purge at the approach " of the eruptive fever, and being kept " broad in the open air, be it ever so cold ; " indeed he has an exception, *viz.* " unless the " weather be extremely severe, and the constitution very delicate." If the air is mild, I never object to their going out, during the eruptive fever, and, in general, the symptoms are alleviated by it. — The pimples coming out on the skin has been thought by some, to be a sufficient security against the disease for the future ; but the Doctor, I find, mentions *maturity* ; if this is the case, without doubt,

all is obtained that can be wished for, if not, I have given my objections to the practice.—The Doctor, page 37, in case of languor allows broth, wine-whey, or wine alone; therefore *cordials* are allowable sometimes, and have their turn, with cold water, according to the necessity of age or constitution, nay, sometimes after the eruption is completed, if occasion requires, boiled mutton, veal or chicken; when there is a *plentiful eruption, the Doctor has confined his patients to the house.*—I do so generally, after the eruption is complete, till the crusts are dry.—He says, page 40, maturation appears rather advanced than retarded, by a very mild laxative now and then given; this I have often experienced, but chose rather to rely on clysters, than a purgative by the mouth, as I always thought it was safer, lest more stools might be given than could be wished for.

THE * changing the diet gradually, is certainly a thing of more consequence, than *the itinerant* operators seem to think, as one dose of salts seems to them to be the passport to repletion: But the Doctor judiciously observes, that they ought to be very cautious in returning to their usual diet, and often finds *by the discharge from the arm remaining, after the disease is over, that dressings become necessary,*

* *Vid.* p. 38. preceding.

fary, as well as purging and alterative medicines; I sometimes go a little farther, and bleed, give antiphlogistic medicines, and, never apply a single topical remedy that has the least tendency to dry up the discharge *.

WHERE there is a rash accompanying the variolous pimples, the Doctor advises his patients *to refrain from cold water, and keep the house, with cordial medicines*: This is certainly a sensible practice, but the idle reports that were propagated, were, that the new method of practice was, the more alarming the symptoms, the greater necessity of turning the patients into the fields, and to be drenched with cold water: Page 46, the Doctor tells us of the absurdity of some practitioners, who, by these means, *have repelled the rash; and the bad effects experienced afterwards*.

HE observes likewise, that rashes happen during the preparation, and this suppressed for a time, returns again at the eruption of the small-pox; if this is the case, *is not maturation of the variolous pimples necessary?* Or will they vanish in the air?—I think the inflammation of the incised skin for two or three days only, and then going off, will frequently happen, where there has not been any variolous

* *Vid.* p. 15 and 38, preceding.

variolous matter inserted, but merely from a sharpness in the juices.—I own, when *this only* is the case, after inoculation, it is not satisfactory to me, without farther trial; and should there not be any eruption or fever after the second operation, I should be apt to suspect the patient has formerly had the disease unnoticed, and not at that time. Page 52, the Doctor tells you, that after the eruptive stage of the disease is complete, there is sometimes a second crop, in some cases, *without* maturation, in others *with*, and that some of his own patients, and of other inoculators *in this way, have had considerable eruptions after their return home to their families*; all that can be said, is this, that in the natural sort it is seldom seen, and is not to be wished for in inoculation.—This is certainly anomalous, and proves in the strongest manner what I have asserted, that the ferment is raised, and either not permitted, or not assisted to deplete the blood from the variolous matter.

PAGE 57. Boils, it is said, are rarely consequent of this *new* method of treating patients under inoculation; one happened in the axilla of a child, and two superficial ones in others near the place of insertion, which seemed rather to be occasioned by an irritation from the *discharge* at the incision. What

I have always understood of the *new method* of inserting the matter, was, that it became only a pustule, and never discharged, or required dressings, and dried up with the rest of the pimples; but the Doctor again says, that sloughs on the incisions have happened in a few instances, and now and then little breakings out, and scabs.—And now and then these said *accidents* have happened in *the last edition but one*, and generally go off by the second dose of gentle physic, as do the fullness of the vessels on the conjunctiva by taking away a little blood, and some saline or other cooling draughts, *without blisters*; page 58, the complaints heretofore *so frequent and grievous* by this *new method* are reduced.—I certainly have, *unknowingly*, been in the *new method* for some years, as I cannot say within my retail practice, I have either found them *frequent* or *grievous*.

THE Doctor adds a circumstance, which if it does not amount to a proof, admits at least of a fair *conjecture*, that the state of health is better here, than where those remains of putridity are so evidently existing in the habit.—If conjectures are allowed, I am of opinion, that if the same quantity of variolous matter is inserted into different subjects, and the ferment raised, if permitted to be thrown on the skin, and then the pimples to suppu-
rate,

rate, less putridity will be left, than where repellents and cooling medicines are given, and the patients constantly exposed to the cold air, even of the severest winter.

PAGE 59. I am surprized to find the Doctor should think, that any one should attempt to calumniate, and discredit the practice he has set down ; for it is sensible and consistent, and what every man of experience would always do, *if too low to raise, if too high to lower* ; cordials and antiphlogistics must have their turn, and cool air be frequently admitted into the chambers of those, where confinement is thought necessary ; for the Doctor's candour tells you there are such cases even in the *new method*.—How different is this from what the *prejudiced espousers* of what is called *the new method* assert, that they are not *ever confined after the eruption, and after that, nothing but cold air, and cold water* ; and that *this succeeds when the doctors have given their patients over in the natural small-pox*.

THIS, has been tried, from the good opinion entertained of those who recommended it, and when the patients have died, the answer is, Why most likely they would have died, if any other method had been used. A man must be hardened indeed, that could
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make light of a person's death, in consequence of a practice so opposite to common sense ; for I should think it just as reasonable for a physician to throw his patients into a river at the crisis of the disease, or lay them in the cellar with only a sheet on, because one or two out of many, have recovered after such treatment.

PAGE 60. I am fully convinced of the truth of every thing the Doctor has advanced ; but what I have had related to me, is not *an eruption*, the *consequence of repletion*, some short time after the patient had been so lowered as not to have sufficiently depurated the blood, at the time when the faint effort had been made to produce the disease ; but in patients where the strongest assurances had been given of security, and many months afterwards the small-pox has broke out in the natural way ; this an empiric would smother, this a man of character would proclaim, in order to establish a practice the most beneficial to mankind.

I SHALL here subjoin some of the Doctor's cases, as they prove every thing I have asserted in my account of the disease, either by proper or improper treatment ; and tho' prejudice in favor of a particular system may influence some authors, yet the Doctor's

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candour is so far predominant, that he relates the facts as they are ; and, from thence the skilful practitioner will obtain light for his future conduct.

“ Many were inoculated twice, and had
 “ signs of infection by the state of the arms,
 “ but without fever, others had symptoms of
 “ the eruptive fever, but no pimples.” Tho’
 most of these had been inoculated twice, yet I cannot say it is to me as satisfactory, as if they had been suffered to replete a little, and had been inoculated a month or two after the first operation ; as we find in many instances of other cases related by the Doctor, that on their returning to their houses, and usual way of living, the small-pox seeds were brought forward, and the disease appeared in its usual stages. This confirms what I have given as my opinion, page 30. The viiith case is very singular, and is as follows * :

“ A MAN between 50 and 60 was inoculated about four in the afternoon : On the morning of the third day after the inoculation I first saw his arms, when they shewed uncommon signs of infection, being already much inflamed ; and upon enquiry, I received from him the following account :

That

* *Vid.* Dr. *Dimsdale* on Inoculation, p. 91.

That on the same evening he was inoculated, he felt an uneasiness and numbness at and near the place of insertion ; and that the day following, these complaints increased, and spread up to the shoulder of one arm, which was very stiff and numbed ; that the incision had itched several times, and his arms felt as if they had been bruised by a blow with a very large stick. And on the preceding evening, which was the second from the inoculation, his head had been giddy and in pain, accompanied with some chilly fits ; but all these sensations went off without any other illness. He had rested well, and never thought himself in better health."

" FROM this time I saw him at different times every day, and he continued in perfect health ; only sometimes, especially towards evening, he said, he felt as if he had drank too much. The arms were much inflamed, but on the 6th and 7th day they altered their colour to a darker hue, and the inflammation and hardness were evidently abating. He now desired to go a journey of about 20 miles on business ; and this I consented to, from an absolute confidence that he was secure from any alarming attack ; having first enjoined him not to go into company where he might risque

spreading the infection ; for his breath at this time had that peculiar offensive smell which accompanies the disease."

" HE returned the following day, being the 8th, in the afternoon, making no complaint but of hunger ; yet said his head had ached the preceding night after his journey. His arms were now rather more inflamed, which I attributed to the friction they might have in the chaise ; but from this time all complaints of every kind ceased. His arms soon became quite well ; he took his first purge on the following day, a second on the 11th, and returned home on the 13th from the inoculation, without having a single eruption of any kind."

" IT is remarkable in this gentleman's case, that being so well, he did not chuse to live with those who had the distemper, but continued in a lodging with his wife, who accompanied him by way of nurse, upon full confidence of having had the small-pox many years since. However, after they got home, she fell ill, and had the distemper in a very clear but favourable manner, and doubtless caught it of her husband *."

IN the tenth case, the Doctor says, "*the pustules*

* *Vid.* p. 41. preceding.

pustules * having advanced properly towards maturation, I ordered him immediately to the house, where he remained perfectly well, and the pustules which were about twenty, matured very kindly."

"CASE XIII. On the 8th day an erysipelatous rash, with pimples; the rash went off as the pimples advanced, little or no fever, but by *white wine-whey* the *pustules* became large and matured well; no other complaints during the whole process."

"CASE XIV. After two of the preparatory powders an erysipelatous rash appeared; as soon as that went off, the person was inoculated; seven days after, the eruptive fever came on, the rash returned, *was then confined to her room*, and took the emetic tartar and crabs claws; kept her room, and a few distinct pimples appeared on the tenth day; the rash appeared fainter, and all did well."

"CASE XV. On the 6th day after inoculation complained of the usual symptoms of the eruptive fever; on the 9th about ten pustules, it is said, appeared after the alterative pill and purging

* I never call the first appearance of the eruption *pustules*, but *pimples*, and as the words are used as synonymous by some writers, I think it necessary to explain my meaning, to prevent cavil.

ging draught, and till that time kept in the air, his feverish complaints ceased; these pustules seemed to dry away without maturing, which is often the case when few. On the 12th he took physic, went home, and it was supposed all was over. On the 16th, was told he had been much indisposed since his removal. The Doctor saw him on the 17th, when he had 40 *pustules* in his face, his arms became inflamed, and many pustules near the incision.

CASE XVI. The 5th and 6th days after inoculation, the feverish symptoms came on, and lasted three or four days. The incision shewed evident signs of infection, but not in the usual manner, where things go on well. The 8th day two or three pustules were discovered near the place of insertion. The 9th day about one hundred appeared in different parts. The 10th day the pustules were properly advanced, and the patient seemed perfectly well; but the arm had not the usual good appearances, and was not satisfactory. The 11th day he was seized again with the usual symptoms of the eruptive fever, but more violent. 12th, The symptoms continued pretty high, was therefore advised to get up and go into the air, and to take a dose of physic, which gave four stools, and relieved all complaints, *on an*
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eruption succeeding, to double the number of the former; both orders of pustules matured about the same time. The Doctor thinks that the first order was retarded by the second eruptive fever, which hurried on the second order faster than usual. I * cannot say I understand this, the fever retarding the one crop, and forwarding the other.

CASE XVII. " A person had, the 2d day after inoculation, the symptoms preceding the eruptive variolous fever. The 3d day the wounds were quite healed; the person had been much in the way of infection, and therefore, supposed he was going to have it in the natural way." I do not see the reason for this, as several had been attacked as early after the operation; and it has been said, that *patients cannot be infected by the mouth or nose, from patients inoculated in the new way*; "the fever remaining, the mercurial and antimonial pill were given at night, and was directed to go into the air. The 4th day the complaints remaining, took another purge. 5th, Saline mixture, with tartar emetic and crabs claws; this purged and swetted, but the cough and difficulty of breathing was troublesome. 6th Day he was bled, blood fizy. 7th The arms began to inflame, the pain in the breast relieved, cough

cough still troublesome. 8th Day, the bleeding repeated, with the antimonial powder. 9th Day peripneumony, and fever worse; was bled again, and a blister applied, with a gum ammoniac mixture; in the evening the symptoms abated. The 10th day, the complaints relieved, but the fever still continued, medicines as the day before. The incisions spread, but not the usual appearance preceding an eruption. 11th Day, the peripneumonic complaints worse, a vesicatory to the side. 12th, The incisions looked pale. 13th, was bled again, the incisions put on the appearance of pustules irregularly shaped, with a fluid under the cuticle. 14th, The symptoms abated, on two pustules coming out on the face; the incisions advancing to maturation. 15th, The incisions were more elevated; but the pustules looked pale. The 16th, all was thought to be over, and he went out on horseback, and the Doctor took his leave, nevertheless, the day after, which was the 17th, in the evening, he had a return of fever. 18th The symptoms of fever went off, on the eruption of many pustules, which filled well, and *matured* properly without farther illness; the Doctor did not see him for near three weeks, and found what the patient related to be true, by the marks in his face, and other parts of his body.

SURELY, that the necessary treatment of the peripneumony retarded the eruption, will be allowed, and it is strongly proved, that tho' the variolous particles may lay dormant for a time, they will make their way to cleanse the blood of its impurity, if there is strength of constitution to effect it *.

CASE XVIII. The 6th day after inoculation, symptoms of an eruptive fever; the fever slight but remained 'till the 8th, when some eruptions appeared on the face, which the Doctor took to be variolous, but was so blended with scorbutic pimples, he was used to, that it was difficult to determine which were fresh, and which scorbutic; the incisions much inflamed. On the 9th day was perfectly well, and not any more eruptions shewed themselves; and the Doctor having had several patients, who had passed through the disease with no more illness than this man, and some without any eruption, concluded all was over. 10th, Took physic, and had mutton for dinner, and drank ale after it: The consequence of which was, he had more fever than any other time during his inoculation, but attributed it to catching cold during the operation of his physic. 11th, Still feverish and much indisposed, had a bad night; in the evening of this day

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* What would have become of this patient in the hands of one of our *itinerant* operators?

he found more pustules on his back, and thought himself much better. 12th, He went to a friend's house, and left word he was quite well. The Doctor did not see him till the 14th, when he found a moderate number of fresh pustules on his face and limbs, which *matured* kindly, and he remained in perfect health." Do not these cases evidently shew, that there was not strength of constitution to throw out the pimples till the patient lived a little better? If these cases do not shew the impropriety of suppressing the eruption in part, by keeping the patients too low after it is advancing, I know not what can.

“ CASE XX. The 5th day after inoculation, a person of a scorbutic habit, whose legs were particularly affected by the disease, had several pustules on them. On the 11th day more pustules. 12th, Slept ill the last night, but a great number of almost coherent pustules appeared under the hams, and on the legs, neck and face. He had been all along advised not to stir much, but had taken greater liberties of walking about than the Doctor allowed of. 13th, Had not slept a minute all the last night, but was walking about the house, complaining much of pain; was now rather cold, pulse low, aspect languid, his face livid and pale, complained of faintness and sickness. These symptoms alarmed

alarmed the Doctor. He was not taken into the snow, like the itinerant operator's patients, but was put to bed with *cordial medicines*, and the bark to be given frequently; by these means the pocks matured, and he recovered without mercurials or antimonials, and his legs better for inoculation."

"CASE XXI. A fore throat supervened inoculation, the eruption moderate, but matured kindly. On the 7th day from the eruption, bleeding, blistering, scarifications on the tonsils, were made more than once, the fever almost concluded, which certainly forwarded the maturation of the pimples."

"CASE XXII. Seems to have had the eruption kept from suppuration, by the repellent antimonial and mercurial medicine, and was much out of order till he kept within doors; the pill taken again, but white-wine-whey was taken with it; the next day he was much better, had rested well, three stools from the pill, and the small-pox advanced."

THE chincough ought always to be an objection to inoculation, as many of these patients die; children at the breast died; an adult died apoplectic, after being seemingly recovered; on the first attack it was thought to be owing to filling up too fast, with animal food; he had taken three doses

of physic, when danger from the disease was supposed to be out of the case.

As the following has been lately given me, I will insert it as a continuation of the facts advanced.

A PERSON about 17 years of age was inoculated by a gentleman of eminence in the profession, which did not take place, supposed to be owing to the matter inserted being taken too late in the disease; and after the expiration of a fortnight, was again inoculated with fresh matter. The incision became inflamed at the usual period, and eight or nine days after the operation, about four or five pimples within a circle of two inches diameter appeared on the incised arm, an inch or two below the plaster on the wound, which was then declared to be the disease, and seemed to advance towards maturation for two days, but being at a stand for three days longer, the question was asked of the physician and surgeon, If they thought security against any future attack was obtained by so few pimples not coming to matter? It was declared, as well, as if the person had had ever so many. A relation, tho' not of the profession, dissatisfied with the smallness of the number of pimples, and they not maturing, imagined, that the extreme low state the person was reduced to by abstinence,

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during the preparation, and after the operation, was the cause of it : He prevailed on the patient, the evening of the 5th day, after the eruption, by the consent of the physician and surgeon, to drink two or three glasses of raisin wine, after a little chicken had been ate for supper ; was hot and restless all night, and the next day, was seized with the usual symptoms of the eruptive fever, the succeeding day a plentiful crop appeared, which underwent the usual stages of the disease, but tho' pretty full, had not any second fever during the maturation. May we not ask, without suspicion of prejudice or malevolence, whether the first eruption would not have been said, according to the new plan, to be the true small-pox, and maturation of the pimples no ways necessary ? Or supposing this help to the circulation had not been given, by a little made wine and a bit of chicken, would not some of the variolous seeds have remained in the blood, and probably have been injurious to the constitution in future, had not this plentiful eruption followed ? No person, I dare say will assert, that the small quantity of aliment and wine would have given an eruptive fever, had not the blood been infected with variolous particles.

It may possibly be objected, by some, that the observations and practice hitherto related,

related, are not Mr. *Sutton's*, or the *new method of inoculation*; I will therefore add a few remarks, given by Mr. *Chandler*, on Mr. *Sutton's* practice, as executed by his partner Mr. *Peale*. This will certainly have its weight before the balance is struck, as Mr. *Chandler* professes himself an espouser of the *new method*.

MR. CHANDLER * tells us, “ that Mr. *Peale*, a partner of Mr. *Sutton's*, has reduced the preparation to three doses of mercurial powders at night, with an interval of *two days* between each, and the morning following each powder, a dose of purging salts, so that it is only eight days, instead of a fortnight, in preparing the subjects; and, on the ninth day he inoculates his patients so prepared †; the antimonial pill is not given till the fifth day, and then to almost all, except very young children; to them a little purging salt or senna-tea.” Is this not clear then, that the giving a stool or two is the intention at that time, and if the body has been kept open the whole time, from the patient's being inoculated, I should suppose the same thing is effected, as by giving a stool or two at that particular period, and should certainly depend on the propriety of doing it or not,
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* *Vid. Chandler on Inoculation, p. 6.*

† *Ibid. p. 7.*

by the person who sees the progress of the infection; if the pill is repeated every day from the 7th after inoculation, and is of a *purging quality*, I should think, that it is only *repellent* in its effects, so far as to check the efforts of nature, that I still conceive would be salutary. “When the eruptive fever comes on, the patients drink acidulated liquor, and when the *eruptive symptoms* are over, his patients are out of danger;” then it is plain, the pimples forming of matter is not at all necessary*. “A slight diaphoresis, it seems, sometimes came on by this acidulated liquor, but never a profuse sweat, as the patients are not permitted to lay in bed or come near a fire; but, during the eruptive fever, if the weather is tolerable, go out of doors, and drink nothing but toast and water.” So far so good. Mr. *Chandler* thinks Dr. *Baker* has been misinformed, in respect to purging, after the disease is supposed to be over, for Mr. *Peale* being asked the question, answered, “as a matter of mere indifference,” what Dr. *Glass* relates that “the patients who had a considerable degree of fever, were permitted to lie in bed.” This Mr. *Peale* used to allow “by way of indulgence, but never advised it.” Thus far, I think, we may conclude, that preparation will be reduced to two doses of physic, or sometimes

* *Vid. Chandler on Inoculation, p. 8.*

sometimes three within the week, which, I believe, has been the practice of almost every man of eminence for inoculation for some years past. Whether advantage from preparing with mercury or without, or any preparation at all, but emptying the bowels, seems, with all the accounts we have had, to be at present undetermined. Page 18, Mr. *Chandler* says “ That Mr. *Sutton’s* own opinion is, that the disease cannot be caught in the natural way from any of *his patients* ;” certainly not, if they have not the disease ; but most of his greatest advocates, that I have talked to on this subject, say, *that is not a fact*, for several have caught the disease from them : but tho’ they have not eruption, from Dr. *Dimsdale’s* account of the woman being infected by her husband, who had not any eruption, my assertion of the breath being infectious, is clearly proved *. But, † Mr. *Sutton’s* partner “ Mr. *Peale*, expresses a good deal of solicitude on this head ; if the natural infection is taken a few days before the operation is performed, *which has often happened here* : The time of coming on of the symptoms sufficiently distinguishes it.”

“ IF infection * should be received by the mouth, nostrils or pores. I cannot imagine

* *Vid.* p. 24 and 41, preceding.

† *Vid.* *Chandler* on Inoculation, p. 19.

“ gine any of these medicines would make
 “ this sort of small-pox like to the *inocula-*
 “ *ted*, nay †, they have often failed in the
 “ *natural* small-pox, even in the hands of
 “ Mr. *Peale*, almost as often as experi-
 “ mented.”

IF the medicines will not do any good in the natural small-pox, I should suppose them a chip in pottage in inoculated patients ‡. “ That Mr. *Sutton's* method
 “ seldomer fails than the old, in giving the
 “ infection, is surely a mistake; for we have
 “ often, very often, seen the operation re-
 “ peated §,” after urging the necessity of purging once in the interval of seven days to clear the bowels from any viscidities, produced by the kind of diet, during this period of the infection. “ However, says
 “ Mr. *Chandler*, we may be mistaken in
 “ the composition of Mr. *Sutton's* pill. But
 “ if it shall appear, that several who have
 “ been prepared by Mr. *Peale* himself have
 “ accidentally taken the natural infection,
 “ have afterwards been attended by him,
 “ and have swallowed as many pills as he
 “ chose to give them; and yet have died.”
 Why then there is an end of preparation and medicines.

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* *Vid. Chandler on Inoculation*, p. 20.† *Ibid.* p. 22. ‡ *Ibid.* p. 25. § *Ibid.* p. 27.

“ A CONSIDERABLE farmer * in the parish of *Wickham*, had a pretty full crop of the natural small-pox, which however was proceeding regularly through its stages; on the sixth day the pustules were growing very properly, the face and head swelling, and a proper degree of spitting was come on; when the impatience of those about him, made them send to Mr. *Peale*: who, as I am informed from very good authority, immediately gave him seven pills, ordered him to be taken out of bed, and placed opposite to an open window in the month of *February*, with future directions, to take a dose of manna and salt every other day till he was well. The pills brought on a violent convulsive vomiting, which had like to have killed him on the instant: but by the help of some proper, but now so much decried cordials, it was checked: and though the pustules immediately fell, a delirium came on, large blue spots appeared, the swelling of the face subsided, the spitting went quite off, and never could be again restored; yet with great care, and the farther help of cordials joined with antiseptics, he was at last happily and safely carried through it. A girl of sixteen was prepared by Mr. *Peale*, and inoculated at *Patrickstown* on *Tuesday*, the natural small-pox ap-

* *Vid. Chandler on Inoculation, p. 28.*

appeared on *Wednesday*; here was time enough for the pill to exert itself, but no pill was given; and though Mr. *Peale* was solely concerned, he endeavoured to save her with a bitter mixture and very sour drops, which probably were a decoction of the bark, and elixir of vitriol, however they failed, and the girl died. But, had this celebrated pill been possessed of the powers so liberally ascribed to it, would he not have depended for the cure on that alone? If these were not sufficient, I could enumerate several other cases of this sort: but that would be taking up my reader's time to no purpose."

THE cases related by Mr. *Chandler* had like to have been classed under the title of murder, by the assistance of Mr. *Peale*, partner with Mr. *Sutton* and his coadjutors repellent pill, and the cold air of *February* pressing in at the open window, opposite to which the patient was placed, from the most favourable symptoms of recovery was this poor man reduced to death's door, and would have *walked out*, had not farther cordials, and antiseptics been timely administered. The next case prepared and inoculated by Mr. *Peale*, on the *Tuesday*, and the small-pox appeared the day following, and she died.

"That Mr. *Sutton* prevents by virtue of his
 " medicines the symptoms of a great fever,

“ or more pustules than his patients would
 “ chuse is not very likely : for the symp-
 “ toms of a great fever never happen, and
 “ those must be unreasonable people who
 “ complain in his inoculation of too many
 “ pustules : a complaint of too few is much
 “ more frequent. *That a patient who has*
 “ *twenty or thirty pustules is said to have the*
 “ *small-pox heavy,* I cannot deny, for peo-
 “ ple will say what they please : but I have
 “ seen several here, who have had from two
 “ to four hundred pustules.”

BEFORE I conclude, I must add, that on
 recapitulating the reasons grounded on ex-
 perience, it appears that preparation for the
 operation must be different in different sub-
 jects ; that the variolous matter is ever the
 same, that neither the quantity nor quality
 of it makes any difference, but that the
 particular species of the disease depends on
 the constitution of the patient inoculated ;
 that too great heat prevents maturation, and
 too little makes cordials necessary to pro-
 mote it ; that a constant circulation of fresh
 cool air is ever necessary for carrying patients
 safely through the disease ; and, that till the
 eruption is complete, every person may with
 manifest advantage be frequently in the open
 air, and take their usual exercise, and, even
 during the eruptive fever, the symptoms, if
 violent, when confined in the house, will be

greatly alleviated by being carried into the open air. This, I believe every experienced practitioner will subscribe to, but let me not pass over in silence, the obligations I know we lay under to those gentlemen who first began the new method of inoculating, as they had opportunities from the number, and circumstances of their patients, to establish a fact, relative to the safety of keeping their patients in the open air till the time of eruption; and though some of the gentlemen of eminence in the profession had been endeavouring to inculcate this to their patients, yet such was the prejudice of parents and nurses, that, but rarely they dared to enforce it, as in case any cold had been taken, or any difference in the stages of the disease should have happened, from what they expected, it would then have been attributed to the little obliquity from the straight line of the established practice, and clamor would have injured their reputation in future; but, from the success of those gentlemen who were wholesale practitioners in the different counties of this kingdom, the prejudice is greatly removed, for which I most sincerely return them my thanks. But now comes the point, on which the established practice for the time to come depends. Is an eruption produced by inoculation sufficient to prevent infection from the small-pox in future? Or, is the maturation of the pimples necessary for that security,

security, and to prevent mischief from the ferment being raised, by the insertion of the variolous matter? Or are more than one or two purges absolutely necessary, to carry off the reliëts of the small-pox? To those who shall be of the first opinion, I will beg leave to ask the following question: Supposing a patient has had a malignant fever, which, after many efforts to destroy the patient, dame Nature should kindly interfere, and produce a critical tumor, would any surgeon of skill prevent its coming to suppuration, or rather, would he not do all in his power to promote it? To say that tumors are resolved without ill consequences, is not an answer, it must be the effect of a malignant fever, and then, I think, no man in his senses would risque the consequences. This may not be so evident to all, as the following fact; Supposing the inguinal glands became the seat of the *depôt* of venereal virus, and matter in the body of the tumor, not to be felt by the touch, the swelling had been dispersed, and for a few weeks the patient has thought himself well; but, how much more frequent is it that he feels violent nocturnal pains in his head, arms and shins, which, being taken by the unskilful for rheumatic; the warm bath and sweating is advised; the pains are relieved by an eruption, that soon determines under what class to rank it. If these are the consequences of

virus,

virus, whether variolous or any other species, remaining in the blood, the suppurating of every critical tumor on the surface of the body seems necessary, when nature makes the push ; or, if unfortunately prevented at that time, every outlet of the body should be thrown open, in order to obtain a thorough depuration ; and mercury, a specific in some cases, often becomes of more service as the the finisher of the cure, than when employed as a preparative for the operation.——It is possible what has been here related may bias some people in their practice till better authority is obtained, to effect which, some of the foregoing sheets were wrote, in hopes of prevailing on every unprejudiced, and competent judge, to make the strictest and most accurate enquiry into the number of persons, that have, during these two or three years last past, been inoculated within the circuit of their practice, and in the most candid manner faithfully to relate the state of the patient's health for some time before the operation was performed ; the particular treatment of the patients, whether on the modern plan, or what is called the new method, or as it was practised before, *viz.* by incision, inserting the variolous matter by a thread ; and in whom the pimples matured ; to remark likewise, where the pimples only appeared without suppurating ; and where the arms only discharged ; or if what is called
the

the eruptive fever came on, and declined without any pimples on the body in general: Then, as carefully to be informed how long since they were inoculated, and the state of their health since their recovery from the disease. These facts being properly authenticated, will have their due weight with those whose sole view is the benefit of their patients; and where an affected singularity of practice, might be necessary for some of the itinerant operators at first, to claim the public attention, even these, I hope, if humanity and integrity have not totally deserted them, will not persist in any part of their practice, which from experience, has proved prejudicial to their patients, as they need not own their errors, but imperceptibly to their patients in future correct them. Those who have adopted this or that particular plan of inoculating, in order to fall in with the present rage of the people, and have *interest* only in view, are not the persons I mean to address myself to; but whoever wishes to come at truth, for the benefit of mankind, I make no doubt will favour me with the accounts they have impartially obtained, and I will publish them, with the name of the person who has taken the trouble to collect the facts.



