ON THE TREATMENT OF STRANGULATED HERNIA AFTER OPERATION.

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[Read at the Annual Meeting of the Midland Branch of the Provincial Medical and Surgical Association at Lincoln, June 1, 1854.]

Although the provincial surgeon is not often, I am happy to say, called upon to perform the operation for the relief of strangulated hernia, it behoves us all to be well acquainted with the necessary measures and caution to be taken for the safe reduction of the incarcerated bowel when the painful necessity occurs, and to be thoroughly conversant with the most approved mode of treatment. In the opining of the operation itself has been successfully done. It is not my intention to detail the operative procedure, or to enumerate the anatomical difficulties that may arise; inasmuch as such a proceeding would be presumptuous in me, and a waste of valuable time. I propose therefore to take the management of the after-care of the disengaged bowel in the hands of the surgeon, and he may therefore by giving brie fly the treatment which others have formerly recommended, before explaining that of some modern surgeons and my own. The circumstances that I have devoted a great deal of my time to the consideration of this all-important subject, and also that I have had some experience, more than usually falls to the lot of the country practitioner, with the subject, may account for introducing this interesting point to your notice.

Upon referring to the writings of the late Sir A. Cooper, than whom a greater authority on this subject does not exist, I find that he says in his Lectures on the Principles and Practice of Surgery, "In five or six hours after the operation, give a little sulphate of magnesia or castor-oil. When a patient has two or three motions, the surgeon thinks he will do well; but the danger is not over, and it will be necessary to keep up a free discharge from the bowels." I have constantly found the fluid of venous blood of somewhat higher density than that of arterial blood; and even when, through imperfection of apparatus, the difference between the two seemed very slight, or was even inappreciable, I still found, on putting the two kinds of serum into an apparatus for showing endoallosis, that a current of considerable force was drawn from the arterial to the venous side. And this is the process, in fact, which, as carried on between the fluids that transude the arteries, for the purpose of nutrition and vital endowment, and the contents of the veins in the living body, constitutes venous absorption; the condition indispensable to this, viz., the higher density of the blood in the veins or returning channels than in the arteries or efferent vessels in all the peripheral parts of the body, being mainly due to the influence of the sudoriporous glands distributed through the texture of the common integument. This view of the function of the skin will be seen to harmonise perfectly with the fact that the grand process of absorption of the skin is simple water. It also explains satisfactorily the fatal effects of the entire suppression of the cutaneous transpiration, as in the experiments of Fournault and of Becquerel and Breschet. Finally, it sheds a new light on the cause of the great amount of disturbance in the general health that follows every even partial interference with this truly vital function.

It would have been easy for me to have greatly extended this communication, and to have shown the views it involves in a variety of practical applications; but I have purposely avoided doing more than exposing an essential idea which has now for many years possessed my mind, and directing the attention of the intelligent members of the Medical Society of London to a subject which I feel assured is pregnant with much that is of the highest importance in the theory and practice of medicine.

Barrow, May 1854.
case progressed most satisfactorily from the operation to its
termination.

I was so struck with the soundness and rationality of the
practice, that I made further inquiries, and found that this
was the practice Mr. J. Lawrence universally adopted, and
with great success. He had the history of no fewer than
twenty-five cases in which this plan was pursued; and in
the same sentiments he also stated that it was his
intention to publish, for the benefit of the profession,
the whole of the above cases in detail. But, alas! how un-
certain is life! within a few weeks of this time Mr. Law-
rence, in the midst of a brilliant and honourable career as
a surgeon, was himself the subject of obstruction in the
bowels; and, after several days of severe suffering, sud-
denly resigned his soul. He also stated that it was

The non-administration of purgatives after the operation
for strangulated hernia is evidently gaining ground; and,
indeed, has been especially insisted upon by more recent
surgeons. I find that Mr. Skey, in his Operative
Surgery, says, "As regards after treatment, it should be,
for the most part, passive. If the sickness subside, and
the bowels act quickly, it is a favourable omen of recovery;
but should some hours elapse without action, it is no excuse
for the administration of drastic purges. It is difficult
to give a definite rule on this subject, so various may be
the indications; but I believe it is better to leave a patient
alone. If, however, at the expiration of twelve or
eighteen hours no action appears probable, a mild aperient
may be given, in the form of mannia, with some compound
decocction of aloes, or mild form of neutral salts with some
tincture. The intestine may also be excited to action by
emulsions of warm water with salt, or other mild purgatives,
not to be repeated with too great frequency." Such is the
opinion of Mr. Skey, who is evidently in favour of the non-
purgative plan. Although he does not entirely negative the
use of purgatives, he admits that "it is better to leave a patient alone". I am inclined to have great re-
spect for any plan of treatment recommended by Mr. Skey,
placed, as he is, as surgeon to two of the largest hospitals
in London. His opportunities of witnessing and conduct-
ing the treatment of surgical cases are immense, and such
as rarely fall to the lot of others.

In the seventh volume of the Medical Times and Gazette, for
1853, is published the history of the following Case of In-
estinal Obstruction. It was submitted to me promptly after
the conclusion of the operation, by Mr. Paget. They are given in detail for the pur-
pose of shewing the result of this procedure, and with
regard to their after treatment. But, as Mr. Paget has
treated them after the manner I am advocating, I shall
take the liberty of quoting so much as may be necessary
towards elucidating and forwarding my views embodied
in this paper.

The first case was that of a strong healthy-looking
waterman, aged 23 years. The patient spent the greater
part of the twenty-four hours following the operation
in sound sleep; he had no vomiting or action of the
bowels; no medicine was given, and he took nothing but
a little bread, and water. On the second day, no
abstinence from food was all day voluntarily observed,
and no medicine was given. On the fourth day his bowels
were still unmoved; a common enema was injected, and
soon returned with a free evacuation of hard, and some fluid
fæces: he took bread and milk during the day, and felt and
looked nearly well. From this time his recovery was unin-
terrupted.

The second case was that of a man 41 years old, a tall,
muscular cabinet-maker, of pallid, unhealthy appearance,
and of rather intemperate habits. In the twenty-four hours
following the operation the patient often slept for short
hours. The abdomen was everywhere soft, pliant, and
perfectly free from pain; extraordinary exertion was in
place of operating. No
symptoms had occurred since the operation, and the bowels
did not act. In the second day no material change ensued,
except that the pulse fell to less than 96. There was prof-
suse sweating. Some beef-tea was ordered for him (he had
in the previous day taken nothing but a little bread, with
tea or water). During the third day he still often sweated
profusely. He looked and felt more feeble and depressed.
In the evening, four ounces of wine with more broth.
On the fourth day, he said that he had felt at
once better for the wine, and slept soundly, and with
re- freshment after it; the bowels remained inactive, and a
common enema was directed; after the enema the bowels
acted freely twice, and from this time his progress to com-
plete recovery was not interrupted.

In these interesting cases, so graphically
and admirably described by Mr. Paget. Nothing could
show more forcibly and satisfactorily the excellent plan
of leaving nature to herself after the operation, than the above
cases. No anxiety was evinced or expressed by Mr. Paget
in consequence of the bowels not having acted, nor did he
deem it necessary until the fourth day to have recourse
to any means for the purpose of exciting the bowels to action;
and, indeed, not even then (and with becoming respect to
Mr. Paget do I state it) do I think it was needful, for in
both instances, had time been given, the bowels would
doubtless have acted spontaneously.

In connexion with this subject, I must refer to the annual
on which was delivered in March before the Medical
Society of London, on The Improvements of Modern Surgery,
by Mr. Henry Smith. Speaking of hernia, in p. 16, he states:
"The other point alluded to is, the treatment of cases after
the operation has been performed, and here a great improve-
ment has taken place within the last five years, in conse-
quence of a more correct knowledge of the pathology,
and of the treatment of abdominal inflammations in general;
the majority of practitioners now recognize the great im-
portance of keeping the inflamed parts at perfect rest, and
of tranquillising the nervous and vascular system. It is no
longer considered necessary that a portion of bowel, which
had been constricted and irritated for hours or even days,
immediately after it has been liberated, be further irritated
and exposed to mischief by the action of purgatives, nor is
it deemed prudent that large abstractions of blood should
be made for the purpose of preventing or remedying peri-
toneal or intestinal inflammation. Thus, instead of giving
caustor-oil or colocony soon after the operation for hernia,
the surgeon allows nature to take its course for the
injured intestine to heal itself; and if signs of in-
flammation do come on, he depends upon opium as his sheet
anchor, instead of protrasting his patient by copious, local,
and general blood-letting, or by profuse salivation." The
above pertinent and laconic remarks of my friend, Mr.
Smith, relative to the administration of purgatives after
the operation for hernia, are so much in accordance with
my views, and are expressed by me so deservedly high in
his profession, as to make it almost superfluous for me to
proceed further. But I trust I shall be pardoned, and
not considered egotistical, if I detail the result of my own
practice in the treatment of hernia after operation.

It was not long after I had made up my mind as to the
course I should pursue, before an opportunity presented
itself.

Case i. A married female, aged 38, was three weeks after
her confinement attacked with the symptoms of strangulated
hernia. A small recent femoral hernia was discovered on
the right side: the usual means were adopted for its re-
duction, but without effect. The operation was thus performed,
and the constricted bowel was returned without much difficulty.
Ordered symptoms were evenly adjusted, and kept in apposi-
tion by means of sutures and adhesive plaster. The hori-
Zontal posture was strictly enjoined, and no medicine given.
The next day I found that the vomiting and hiccough had
quite subsided; there was little or no pain; and the bowels
had not acted; indeed, there was not a wish to feel at all at
the bowel to act. I de-
cided not to give a purgative, but to leave nature to take
her natural course. All the distressing and alarming symp-
toms were gone, the operation itself had been successful,
and the intestines were again in their natural state. The case progressed most favourably up to the evening of the third day, when, for the first time after the operation, the bowels were, without the aid of purgatives, naturally and satisfactorily relieved. From this time her recovery was rapid; and by the end of the month she was quite well.

Mr. Crowland, aged 56 years. He had not been the subject of rupture previously, and was ignorant of the cause of his vomiting and pain. Upon examination, I found that he had a small recent hernia on the right side; attempts were made to reduce it, but without avail. I proceeded to operate, and readily reduced the bowel in the usual way; the parts were bathed in adhesive plaster, and dosials of lint and bandage were applied for the purpose of producing slight pressure. No medicine was given. He passed a comfortable night after the operation; the vomiting had ceased, as well as the pain and hiccup; he had taken tea and toast. On the second day there was tenderness about the wound, of which he complained. A dozen leeches were applied, which considerably relieved him. The bowels were not yet relieved. He gradually improved up to the fourth day, when in the evening the bowels were copiously relieved. His progress to recovery afterwards was most rapid and satisfactory.

Case IV. A similar case to the above occurred last Sept. in the practice of Mr. Agar, of Crowland, in this county. The patient, a man, was upwards of 70 years, and was the subject of strangulated inguinal hernia. He suffered a long time before he would submit to the operation; but I at last prevailed upon him to do so. I had little difficulty in liberating and returning the incarcerated gut. He was treated after the same manner as the above cases. The next morning the bowels were relieved plentifully. The patient residing a considerable distance from me, I did not see him again after the operation. Mr. Agar, however, kindly gave me every particular. It appears that all went on well until the second day, when a collapse suddenly came on, and after a few hours he expired.

I much regret that in neither of the above cases was a post-operative examination permitted. This sudden sinking and expiring after the operation, I believe, is not an unfrequent occurrence, and without any apparent cause, in very old people. I am inclined to attribute it to the failure in the viva voce of aged persons, which is unable to contend with and resist the great havoc and shock the system receives during the time of the strangulation, from the distressing and agonizing symptoms necessarily attendant on so formidable a matter as constriction of the intestines, and from the operation itself. I never heard or read of a similar case happening in young persons.

I shall only detail one other case, before making some general and concluding remarks. I could give several more cases, showing clearly and indisputably the excellence of the practice of avoiding purgatives after the operation for strangulated hernia, and pursuing a passive plan of treatment.

Case V. The case I allude to is that of a lady, aged 51 years, who had been the subject of irreducible femoral hernia for years, and had not any pain or inconvenience from it, having had several attacks of sickness and constipation, but was always, after having had an evacuation from the bowels, relieved. From motives of delicacy, she had not consulted her medical attendant. Last summer she was seized with one of her attacks of sickness and pain in the abdomen; her stomach rejected everything. Pain, however, did not afford her much comfort, and before, she sent for her surgeon, who soon informed her that she was suffering from strangulated femoral hernia. I was requested to see her; and as all known means had been had recourse to without any benefit, I immediately operated, and readily returned the bowel. The sac I was unable to return, in consequence of its having formed strong adhesion to the surrounding parts; and as it interfered with the proper and accurate adaptation of the integuments, I removed a piece with the scalpel. The wound was dressed in the usual way, and no purgative was given. By their action, great and unnecessary irritation is produced within the bowels, at a time, too, when rest and quietude are most needed and beneficial; for we must not, in our anxiety, overlook the important fact, that the intestine has suffered already sufficient irritation and injury from the violent and continued constriction to which it has been subject prior to the operation. Surely then it is better that it should remain at rest, so as to relieve itself of an unusual state of congestion, and thus be afforded the chance of assuming its normal state again. In the cases I have related, the bowels generally acted about the third or fourth day.

The patient was able to bear a small quantity of milk of a case of strangulated hernia to its cure. The operation having been successfully performed, and the constricted bowel having been safely returned within the cavity of the abdomen, the edges of the wound must be brought neatly together by means of sutures, taking care to include nothing but the skin, which must be even and in exact apposition. Our object is to produce adhesion, and the more we can effect of this, the greater will be the advantage gained after this has been done; it is better to exercise slight pressure upon the part by means of dosills of lint, and a bandage. The patient must be strictly enjoined to keep the horizontal position; and when the bowels are relieved, he must use a bowdler by Mr. Clims, at whose hands this was not attended to. He directed that his patient should not quit his bed; a little time after the operation, however, he did just get out of bed, and whilst upon the night-chair the bowels forced their way into the sac, and displaced the dressings. The above caution therefore is not superfluous, but highly necessary. The sickness having now subsided, the gruel may be allowed. On the second day after the operation, the sutures may be removed; for, if adhesion have not taken place within this time, most assuredly it will not. The wound may now be dressed with a little simple cerate. Should it, however, inflame or suppurate, a few folds of lint dipped out of tepid water may be applied, and occasionally changed. Over this must be laid a silk. If there is much fever present, a simple saline may be given every three or four hours. The bowels may not yet have acted; a purgative, however, must not be administered, lest the intestines should not have recovered their tone. Should sickness continue or supervene, effervescing medicine must be given.

The plan of treatment I have described must be continued until the wound has completely healed, never omitting to apply slight pressure over the dressing by means of a pad of lint and bandage. After the wound is healed, the parts will remain for some time very tender, so much so that the patient cannot bear the pressure of a truss. Now it is essentially necessary that a truss should be worn until all parts are in such a condition as to bear the pressure of one, the use of a pad and bandage must under no circumstances be neglected; for, although the operation has relieved the strangulated gut, and enabled it to be returned within the cavity of the abdomen, still the liability to a return of the hernial protrusion remains; to guard against which a truss must be a constant companion.

The bowels will generally act spontaneously on or before the fourth day. Should they not, however, there need be no apprehension lest mischief should ensue; for, in the absence of any unfavourable symptoms, the fact is simply unimportant. Four days having been allowed to elapse since
The more the arm, is there recognised. This fatal affection. Arrest when sickness of traumatic peritonitis goes, on words of the Lawrence, does present. "

The patient usually recovers within a month of the operation. The symptoms of peritonitis are readily recognised. There is great uneasiness over the whole of the abdomen, with pain and tenderness about the wounds; the pulse is small, hard, and frequent; the skin is hot and dry; there is great thirst; the tongue is dry and brown down its middle; the knees are drawn up; the belly swells; there is a prostration of strength; breathing is short, and sometimes sickness happens. Such are the leading symptoms when peritoneal inflammation is present; and nothing short of the most vigorous antiphlogistic treatment will arrest this fatal affection. We must remember that it is traumatic peritonitis we have to deal with; and, as far as my experience goes, I believe it to be much more acute and mortal than idiopathic peritoneal inflammation. The patient must be bled largely and freely from the arm, and by the application of a dozen or even two of leeches to the abdomen; and a full dose of opium must be given. Should the symptoms not yield to the above treatment, mercury must be administered, and the system brought under its influence as quickly as possible. I wish especially to draw attention to the fact, that immediately after bleeding I have recommended a dose of opium, giving it the priority of mercury. I admit that this is contrary to the practice of the late Sir A. Cooper, Mr. S. Cooper, Liston, Lawrence, and some modern surgical writers; but to use the words of Mr. Scy, in his recent work on Operative Surgery, "in cases of peritoneal inflammation, the pulse will be less in the public mind than it does at present!" Then, again, Mr. Henry Smith, in his pamphlet on The Improvements in Modern Surgery, speaking of the treatment of hernia after operation, says that "if signs of inflammation do come on, he depends upon opium as his sheet anchor, instead of prostrating his patient by copious, local, and general bleeding, or by profuse salivation." This is strong and unmistakable language respecting the value of opium, and spoken by one whose position and experience entitle his opinion to the greatest respect. The researches of modern pathologists indisputably show us that inflammation is not simply a greater determination of blood to a given part, or an unnatural circulation of the blood; on the contrary, it is an excited state of the whole vascular system, but that the blood itself is in a morbid state, and is the immediate cause of many inflammatory affections; and that the plan of depressing and lowering the system by general and local bleeding, and giving powerful medicines, is wrong and may be fatal. I dare say many have suffered from treating such cases as acutaneous inflammation, that the acute lancinating pain has not always yielded to the abstraction of blood, but has at once been subdued by a full dose of opium.

In peritonitis, warm applications to the abdomen will be found both serviceable and agreeable; and this is best done by blankets wrung out of hot water. A simple saline mixture may be given, and warm water glasses thrown up the rectum as often as may be necessary to procure an evacuation of the bowels; sometimes a large blister, applied to the surface of the abdomen, will be found beneficial, after depilation has been carried as far as is thought prudent. I must confess, however, that I have not much faith in their efficacy. Peritoneal inflammation will generally be found to yield to the plan of treatment I have just detailed; if pursued in a determined and vigorous manner.

Since writing the above, my attention has been directed to the history of a "case of herniotomy" published in the Association Journal of May 12th, by Dr. John McIntyre, which so clearly shows the direful effects that may follow the administration of purgatives after the operation for hernia, that no apology, I am sure, is needed from me for introducing it here. James Cooper, aged 67, was the subject of strangulated femoral hernia; the usual means were tried to reduce it, but without effect; on December 20th, it was deemed unsafe to try the taxis further, the operation was proposed, to which he willingly acceded. The operation was done in the usual way, and the intestine replaced within the cavity of the abdomen; very little blood was lost during the operation, and no yessou round the ligature he immediately felt relieved. The wound was united by two or three points of suture, a compress and bandage applied, and he was placed in bed. The pulse was 70.

December 21st. He had passed a good night, and felt comfortable; there had been no pain or vomiting; he had passed urine twice, the bowels had not acted. He was ordered to have a large enema of gruel, and two scrupules of Epson salts every four hours. 8 P.M. The bowels acted freely three times from the enema; he had vomited twice, and now felt sick. You will observe now that the patient's troubles begin; purgatives are given within twelve hours after the operation. He complains of uneasiness round the upper part of the abdomen, which is distended from flatulence. There was no pain at the wound, the skin hot, great thirst, pulse 72. He was now ordered to take a calomel pill at once, and half an ounce of castor oil.

Dec. 22. The oil was rejected. "I was called to him," says Dr. McIntyre, "at four o'clock this morning, on account of vomiting and severe distress, the result, I believe, of another dose of aperient mixture that had been given by my assistant to him. At 11 P.M. pulse 78, tongue moist and somewhat furred; a calomel and opium pill was ordered every four hours.

"Dec. 23. He had passed a good night; the bowels felt as if they would be relieved; was free from pain. I used the bandage; the wound looked well. The pills were omitted at 6 P.M. The bowels had acted four times; the last motion was 'bloody and slimy'; the abdomen very collapsed; otherwise he remained in the same state. Thirty drops of laudanum in a mucilaginous mixture was given every four hours.

Dec. 24. The night had been disturbed by repeated actions of the bowels, dysenteric in character, and accompanied with tenesmus. An enema, containing half a dram of laudanum, was ordered, and the anodyne mixture continued; in the evening the bowels were quieter; the opium in mixture was continued.

"Dec. 26th. He felt better. The bowels had acted twice since last evening; four times since last report. The wound was rather inflamed; I removed the sutures, and applied water dressing; the pulse was 76. One ounce of chalk mixture, with five drops of tinct. opii, was given every six hours. On the 29th he had passed a very restless night, the bowels having been moved nine times; the stools were dysenteric, and apparently mixed with pus; an enema containing half a dram of laudanum, was given, and the chalk mixture continued in the evening. The bowels had acted three times; the stools were feculent, and mixed

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with blood and mucus. He had no pain, and felt comfortable; the enema was repeated. 31st. The bowels had not been moved; he felt more comfortable in every respect. The reports from this date tell of his gradual recovery.

The author then states in his remarks: "The mucous-enteritis, I believe, arose from a combination of causes: from the use of the aperients; from the specific action which mucous purges have upon the bowels of some individuals on its introduction, however slightly, into the system. The markedly beneficial influence of the opium throughout the case especially deserves notice, as it does to the evidence in favour of its use in strangulated hernia, and in abdominal injuries and diseases generally. Most recent writers in this affair of the bowel of the abdomen advocate the propriety of conceding rest to the bowel to enable it to recover the injury which its structure or function may have sustained, and this, not only by abstaining from the use of aperients, but by administering opium to accomplish it.

The duration of this repose will vary of course with individual cases, and will depend upon whether the patient has been brought under its influence during the trial of the taxis. In the present case, the patient continued drowsy after the operation was completed, and none was given until the bowels were relieved. Mr. Guthrie recommends that one grain should be given two or three times a day, according to its effect, for the first two days, and be followed up by mucous purges at the beginning of that time. I confess that I was not sufficiently delivered from the trammels with which the long inculcated orthodoxy of the aperient treatment had entwined me, to wait so long, but when the vomiting and pain that occurred on their administration supervened on a hitherto favourable condition, I repented of my adherence to past teaching, and resolved in future cases to adopt that plan unhesitatingly, which modern science has shown to be the most rational, and modern experience the most successful treatment."

Did time admit, I could say much more in favour of the passive plan of treatment after the operation for hernia. I am convinced that the administration of purgatives within the first twelve hours after the operation is not only unnecessary, but absolutely dangerous; and I have not the least doubt there are gentlemen present who have witnessed the beneficial effects of the former mode of treatment, and the deplorable results of the latter. In conclusion, permit me to observe that I am well aware I must yield to many present in point of opportunity and ability to treat this practice subject in the manner in which its vast importance demands; but I will yield to no man in the sincerity of my intentions. The few imperfect remarks that I have made are intended for comparison with the experience of others in the great field of practical surgery.

The life of one man is too short for him to do much towards advancing his profession as a science, but much may be done by comparing notes, for by this means the healing art may be placed upon a surer basis; and should my humble efforts in the least degree assist in promoting this much desired result, my labour will not have been in vain, or your time needlessly wasted.

Spalding, June 1854.

INQUIRY INTO THE PROPRIETY OF OPENING THE BOWELS SOON AFTER THE OPERATION FOR STRANGULATED HERNIA.

By JOSEPH SAMPSON GAMgee, Esq.

Thro'out, from the days of Franco, the most renowned surgeons have specially studied all matters relating to hernia—so much so, indeed, that the reputation of several of the most illustrious among them is mainly based upon those investigations, and that more may be said to be known of this disease than of any other in the whole range of surgery—there are yet some important points upon which opinion is divided.

Having already submitted to the profession, in the pages of this periodical, a few considerations upon the relative merits of the intra- and extra-peritoneal methods of herniotomy,—a vexed question of great practical moment,—I shall endeavour to contribute to the solution of another no less disputed and momentous question: Is it advisable, where they do not act spontaneously, to open the bowels soon after the operation for hernia; or is it, on the contrary, desirable to prevent the inmate of the abdomen from any such act, as much as possible.

This question has often perplexed me in watching cases of hernia: and the perplexity has been only augmented in my endeavours to remove it, by consulting the opinions of the most renowned surgical writers. One line of practice is insisted on by Louis, Samuel and Astley Cooper, Hley, Lawrence, Velpeau, Velpeau, and Syme; a totally opposite one by Dupuytren, Liston, Miller, Hancock, and others. Velpeau strenuously recommends purgatives after the operation for their power in preventing inflammation; their undoubted tendency to excite and aggravate it is the reason which Dupuytren alleges for objecting to them. The propriety of early administering them is regarded by Mr. Lawrence as one of the most unequivocal results of experience and the plainest dictates of common sense: Mr. Hancock insists that the most unequivocal results of experience, and the plainest dictates of common sense, no less than doctrine, prove the injurious effects of purgative medicines after the operation for strangulated hernia.

Considering the vast experience of the men who have defended each side of the question, and the certainty that the very opposite practices which they enjoin must in particular cases be productive of mischief, it becomes interesting to inquire into their respective claims to assent, by an examination of the reasons and facts they advance in their support.

Professor Miller teaches, that "after successful reduction by operation, the same treatment is required as in the case of simple taxis...bland enema, but no purge by the mouth, however simple, until many hours have elapsed; otherwise dilatation with obstruction will take place above the passed portion of intestine, and the patient will probably sink under the symptoms of ilium." Since the combination with obstruction of the passed portion of intestine is, to a greater or less extent, the condition par excellence of every patient whose bowels have not acted after his being the subject of strangulated hernia, there is no need of purgatives to induce it; the only question can be whether they would aggravate it: theoretically, we do not see how they can; and practically, we know the practical man has not succeeded in speedily removing the obstruction,—reduction, I presume, of course, to have been effected prior to their administration. If in such cases purgatives exercise an injurious influence, it must be of altogether an opposite character to that attributed to them by Professor Miller; by so much stimulating the intestinal functions as to excite or aggravate already existing inflammation, or by determining the rupture of an ill-conditioned piece of bowel. So far from sharing the fear of the Edinburgh professor, Vidal, after remarking that many surgeons, influenced by theoretical preoccupations, have too exclusively condemned the use of purgatives after the operation: 'for hernia, states that he has with great benefit had recourse to the exhibition of croton-oil to overcome the excessive sluggishness of the bowels in some old subjects. It must be observed, however, that Vidal expresses himself dogmatically, and addsuces no reasons or sufficient defences in his own, and in condemnation of the opposite practice."

For precisely the same reasons as Mr. Miller interdicts purgatives, Richter and Lisfranc recommend them. "If the strangulation," to use Richter's words, "depend upon an impaction of feces, the intestines are so weakened after the operation as not to be able to clear themselves of their contents, which are a source of irritation to them, and interfere with the patient's well doing. Small doses of Epsom salts and clysers speedily produce an evacuation, and get rid of a troublesome symptom."

* Practical Surgery, 2nd edit., p. 361.