XXV. An extraordinary Cure of wounded Intestines. By Charles Nourse, Surgeon, at Oxford.

TO GEORGE SCOTT, ESQ. F. R. S.

SIR,

Oxford, Dec. 20, 1775.

R. Mar. 29, In compliance with your request, and in discharge of the promise I made to you, when I had last the pleasure of seeing you in Oxford, I transmit to you, the case of James Langford, the unfortunate lad after whose welfare you were pleased, out of your great humanity, often to enquire. If any hints may be drawn from this narrative, that may prove useful to the young practitioner, it will not fail to give me much pleasure; if not, I shall always think that time has been well bestowed which has been employed in executing your command. Should the account I have given of this singular case prove worthy the notice of your learned Society, I shall esteem it as my greatest honour.

I am, &c.

THE

## THE CASE OF JAMES LANGFORD (a).

IN the evening of the 26th of September, 1775, I was called, in great hafte, to JAMES LANGFORD, a young man in the twenty-first year of his age, who had been maliciously stabbed, with a knife, in the left fide of his belly. The wound was between two and three inches in length, running from the left os ilium obliquely upwards towards the navel. I found him lying on the floor, weltering in his blood, with a large portion of his intestines forced through the wound; and I learnt, from the unhappy youth himfelf, that, as foon as the wound was inflicted, the bowels began to appear; and, by the time I got to him, which could not exceed ten minutes, I verily believe, that the full half of the intestinal tube was protruded through the opening. This I attributed, in some measure, to the fulness of the stomach; for, immediately before the accident happened, he had eaten a very hearty fupper. The wound at first bled freely; but the hæmorrhage was foon restrained by the pressure of the prolapsed intestines, which were, to a great degree, distended with air; and from this circumstance I was flattered with the best hopes that they had escaped the affaffin's knife; but, to my great disappointment, it proved otherwise, as will appear most evidently from the sequel of this narrative. Examining his pulse, I found it

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<sup>(</sup>a) He is a journeyman book-binder, and lives with Mr. ALEXANDER THOMPSON, in Oxford.

was exceedingly low, quick, and interrupted; his fkin was all over cold and clammy, and he laboured under great languor, anxiety, and pain about the pracordia. He likewife complained of a difagreeable tingling and numbness of the whole thigh, leg, and foot, of the fide wounded; and acquainted me, that he dropped on the floor in confequence of the inability of the limb to support him, and not from any faintness, as might have been reasonably expected from the loss of blood, or through fear, to which, indeed, he feemed an utter stranger. I ordered him to be conveyed to his bed in an horizontal posture, lest the raising of the body might encourage a farther descent of the parts which still remained in the abdomen; and a fomentation of port wine with warm water to be got ready immediately, out of which a double flannel should. be wrung, and applied directly to the prolapsed intestines, and renewed occasionally, to prevent them from getting too dry, as well as to preferve, as much as possible, their natural heat. The reduction of the difplaced bowels was begun with laying the patient's legs over an affiftant's shoulders, who was defired to kneel upon the bed for that purpose, with his back towards him, and then the legs were brought forward as far as to the hams. By this means the lower parts of the body were elevated, and, in consequence, the weight of the bowels falling back towards the cheft, counteracted their further protrusion. While the patient continued in this position, I endeavoured, with my hands, to force the guts back into their proper place; but foon

found, from the quantity of them protruded, together with their great inflation, that a larger or more extended pressure than my own hands could afford me was neceffary; and not thinking it prudent to employ any of the by-standers in so hazardous a task, lest by their inexperience they might handle the bowels too roughly, I fent for two of my fellow-labourers in the care of the Radcliffe Infirmary, to my affiftance, As foon as they came, the reduction was again attempted; one of us directing that portion of the bowel which was last protruded, while the two others made a gentle, regular, and circumscribed pressure from all fides towards the opening. But this endeavour not fucceeding, convinced us, that it would be much fafer to enlarge the wound, to facilitate the return of the prolapsed parts, than hazard the necessity of handling them too much, or exposing them too long to the external air, either of which would, in all probability. have proved fatal. This being done accordingly, by continuing the wound in the fame direction upwards about two inches, the exposed bowels were easily and foon returned into the abdomen. We then brought the edges of the wound together, and kept them by the future called gastroraphia, leaving a proper opening in the most depending part of it for the discharge of the blood or matter which might be collected in the cavity; and afterwards it was dreffed in the usual way, lightly and almost superficially, with an anodyne poultice over all.

The regimen enjoined him, with respect to diet, was only gruel, panado, and sage-tea, with barley water or thin gruel to drink; and the medicines were the following:

Rt Mannæ,

Ol. Amygd. D. ana 3 ff.

Aq. Alexit. Simp. 3j.

— Nucis Moschat. Zj. m. f. haustus quam primum sumendus et quarta quaque hora repetendus donec alvus responderit.

R. Decoct. Pectoral. Zviij.

Ol. Lini. Zij.

Tinct. Thebaic. guttas x1. f. enema quovis tempore infundendum si dolor abdominis urgeat.

27th, Visiting him early the next morning, I found the night had been spent in great restlessions and inquietude, notwithstanding the clyster had been thrown up according to the direction. He was exceedingly low; his skin felt still cold and clammy; his pulse weak and sluttering; he complained of frequent chills, and an oppressive tightness of his belly, though the wound had discharged considerably a thin, serous humour, which had wetted the bandage quite through. Nor was the tension of the abdomen, at this time, sufficient to account for this oppressive pain he complained of; from whence I concluded it to be spasmodic. The dressings were removed; and I desired my apprentice, to sometime the part with an infusion of the emollient

emollient flowers for a full hour, and to take particular care that the stupes were applied of a very moderate warmth; often having observed, that this manner of applying them, when an inflammation was either to be refolved or prevented, was more effectual than when the heat has been greater. This observation, upon a little reflection, will be found agreeable to reason; for as great heat proves an aftringent, on the contrary, a moderate and kindly warmth relaxes, and, by promoting a free perspiration of the parts to which it is applied, sooner effects the end proposed. The wound was dressed as before, with the addition of two ounces of the species pro cataplasmate de cymino to the poultice; and as the draughts he had taken had not produced any motion of the bowels, it was thought proper to inject the underwritten clyfter, as foon as it could be prepared:

R. Decoct. pro Clyst. zviij.
Ol. Lini. zij.
Elect. Lenitiv.
Mel. Solutiv. ana zff. s. enema.

This in about half an hour occasioned a very copious discharge of faces, together with a good deal of blood; some of it congealed into lumps, the rest sluid. This circumstance did not fail to alarm my apprehension of the imminent danger of the lad's situation, as it was no longer to be doubted, but that the bowels were wounded in some part of them; but what part still remained a matter of conjecture. When the clyster had done operating, he took this draught:

R. Sperm. Ceti (Mucilag. Gum. Arab. Solu.) Dj. Aq. Alexit. Simp. Zj ff.
Ol. Amygd. D.
Syr. de Meconio, ana Zij.
Tin&t. Thebaic. guttas x. M. f. haust.

Late this evening the fomentation and dreffings were again renewed, and directions given, that he should take one of the draughts, with manna, oil, &c. as first preferibed, at three o'clock in the morning; and to repeat them regularly every fourth hour, till they had had their defired effect.

28th, He had got but little fleep in the night, though he had lain fomething quieter, with short, but interrupted flumbers intervening. His pulse, and all the other fymptoms, were much in the same state as yesterday, except a general foreness of the abdomen; of which, at this time, he made great complaint, and more particularly about the wounded part. The whole belly was full and tense; and, when I struck it with my finger, it returned an emphy/emato/e found. The discharge from the wound was increased; it had stained the bandage of a deep reddish-brown colour, and was of a disagreeable smell. The draughts he had taken had not yet moved him; therefore, I defired they might be continued, according to the general direction; and that, in case any stools should come off, to put them by, separately, for my inspection. By the time I made my evening vifit, he had had two motions; in the first, there was a good deal of fluid blood; with the last, but little, no more than just to give it a tinge.

He was evidently relieved by the evacuation; was calmer and more composed; his pulse was rather more up, and his skin warmer. He said, he found himself lithesomer; that he was not fo tight, and thought he breathed with When I came to loofen the bandage, more freedom. I was greatly furprized to find it daubed all over with the discharge; but, as soon as the dressing was removed, there was no evidence wanting to affure me, that this discharge was in part fæcal, not only from the colour and fmell of it, but likewise from the sharp pain it had occafioned in passing through the wound. My hopes of his recovery now began to fail me; however, I refolved to persevere, and act as though I was fure of success. After dreffing, he was ordered to take the anodyne draught, and to begin again the manna draughts with oil early in the morning.

29th, Before I came to visit him, he had had another motion; and the nurse informed me, that his night had been better than any of the preceding ones, he having slept, at different times, full three hours. His pulse was stronger, but remitting, and his skin inclining to perspire. The tongue was foul, and the water clear and pretty high-coloured. In the stool, which had come off this morning, I did not find any blood, or in any he had afterwards during the time of his confinement. The wound had discharged a great deal, and was more inslamed; and the edges of it looked thick and ill-natured, and were ready to separate from each other. The tension of the belly still kept up, though I did not perceive, that it

had at all increased. The opening draughts were continued, once in fix hours only, through the course of this day, which kept him sufficiently open; and the anodyne was repeated at ten o'clock this night.

30th, This morning things wore but a melancholy aspect. His night had been restless, and his head confused, and he talked sometimes incoherently; his pulse was increased, though exceedingly irregular, and the ikin felt hot and dry; he was thirfty, and complained of a great tightness, particularly about the region of the stomach; his countenance was hollow, the eyes being funk, with a deadness in them not easily to be expressed. The wound had discharged very much, and it was extremely offensive. The edges of it were inverted, much fwollen, and feparated from each other confiderably more than the preceding day. He likewise complained of a fharp, burning pain, deep in the wound, but could not express precifely where. As foon as the wound was dreffed, the anodyne clyfter was administered; and I defired, he might have a small bason of the infusion of mint, with a knob of fine fugar, got ready for him as foon as possible, and that he would fip it down as warm At two o'clock this afternoon he was as he could. feized fuddenly with a most violent vomiting, and brought up a large quantity of bile. This I the more wondered at, as he had never made the least complaint of fickness, or nausea, from the time of his accident; for every thing he had taken had fat eafy and well upon his stomach. What he had brought up was of fo dark a colour, that I imagined

imagined it was mixed with blood; but, upon a careful examination of it, found I was mistaken. When the vomiting was over, the nurse gave him a little more of the mint infusion; and, soon after, he fell into a sound fleep, which continued more than an hour. In the evening he was hot and uneafy, complaining of thirst, and a pain in his head; his pulse was increased, and his skin felt dry. The wound had made a prodigious difcharge, which I observed always to increase, in proportion, as the bowels were more or less loosened by the medicines he was taking; and, from the violent efforts of the abdominal muscles in the time of his vomiting, most of the stitches in the wound were broken, so that you might plainly fee into the cavity of the abdomen. After dreffing the wound, twelve ounces of blood were taken from the arm, and the anodyne draught was given to him foon after.

Oct. 1st, I learnt, from the people about him, that for a few hours, after he had taken the *opiate*, he lay composed; but, soon after mid-night, he awaked in great hurry and confusion, complaining of his stomach and bowels, accompanied with convulsive twitchings of the tendons; and that, about five o'clock this morning, he brought up another large quantity of bile, which gave him great relief; for afterwards he lay perfectly easy, and got between two and three hours sleep. At nine o'clock, when I made my morning visit, I found him much refreshed, and without any kind of complaint. His pulse was full, but much steadier than it had been Vol. LXVI.

any time before, and his fkin was open. The water he had made was turbid, though still high-coloured. The wound, indeed, made but an indifferent appearance; the edges of it were very floughy, particularly the tendons of the oblique muscle, and so far receded from each other as to make it necessary to divide the remaining stitches. The lower part of the wound, or that next to the ilium, was beginning to digeft, and the inflammation and tenfion of the belly to abate. The opening draughts, made a little warmer, were continued, which kept the bowels conftantly and gently open. In the evening his pulse was rather increased; and I found that, some time in the afternoon, he had brought up a little more bile, though without any previous complaining. After dreffing, I directed more blood to be drawn, and the opiate to be repeated.

2d, The nurse acquainted me this morning, that her patient had had a very quiet night, and had slept many hours without intermission; that he had taken a sufficient quantity of nourishment, and that it had sat well on his stomach. I found him chearful, without any complaint, except that of hunger. His pulse was steady, his skin soft and open, his tongue getting cleaner, and his water beginning to break. The discharge, this morning, from the fore was exceedingly offensive; and when I had taken off the dressing, I was really astonished at the horrid appearance! The wound was burst open, in such a manner as to assume a circular form, and was rather more than three inches in the least diameter of

In the base of this dreadful opening, there was nothing to be feen but the circumvolutions of the fmall guts; and how this amazing breach was to be restored, I could not easily conceive. Had any one taken a view of the wound at this time, who was unacquainted with the real progress of it, he must naturally have concluded, there had been a great loss of substance. The patient was dreffed with thin pledgets of very fine unformed lint, moistened with the oil of the flowers of the bypericum luke-warm, laid first upon the exposed bowels; afterwards the cavity was filled up lightly with the fame fort of lint dry; the edges were covered with a moderately warm digeftive, and the whole fecured with the uniting bandage; which bandage had been used from the very beginning, to prevent, as much as art could prevent, the impending mischief.

3d, Appearances this morning were very favourable; he had flept well most part of the night; his pulse was perfectly quiet, and his skin moderately open. The water was become better coloured, and had made a fair separation; so that, from this time, all signs of sever, inflammation, and pain its concomitant, intirely ceased: nor did there even arise any alarming, or even disagreeable symptom afterwards; but every thing went on in an easy, regular way. The wound digested kindly, and was constantly dressed twice a day, as the quantity, and indeed the quality, of the discharge from it required. The opening medicines were repeated occasionally, and his nights secured by a few drops of the Theban tincture.

In a few days, the floughs from the edges of the abdominal muscles separated, and left the fore so largely open, that I could easily discover from whence the faces made their exit, which was from the middle of that part of the colon that lies between the left kidney, to which it is attached, and the upper part of the sacrum, where it empties itself into, and forms the rectum.

It was exceedingly fatisfactory and pleafing to observe, from day to day, the progress Nature made in renovating this formidable breach, and her mean of accomplishing it; for, after a little time, the furface of the intestines looked florid, and began to pullulate, throwing up fmall grains of flesh from every point. These granules, daily increasing, united with each other, and after filling up the intervals between the circumvolutions of the bowels, became one uniform furface; which furface meeting with that of the raw edges of the integuments, they both adhered together, and became one continued fore. the wound incarned, the facal discharge lessened daily, and about the twenty-fecond or twenty-third day intirely ceased. I now allowed him chicken broth, milk porridge, calves-feet jelly, &c. The wound was dreffed once a day with dry lint only, and in feven weeks it was completely healed.