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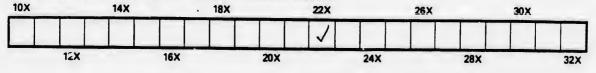
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Umbilical Fæcal Fistula in an Infant Cured by Radical Operation.

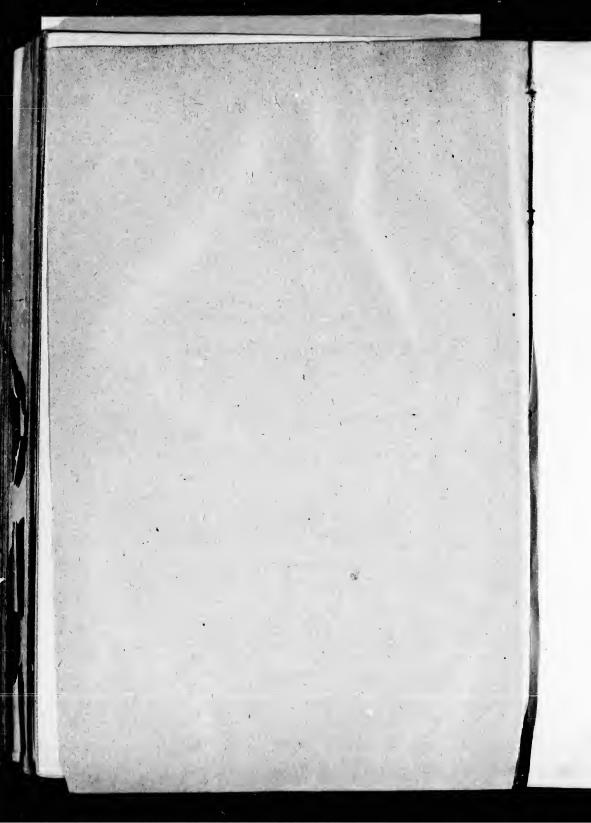
(ILLUSTRATED)

By FRANCIS J. SHEPHERD, M D., C.M.,

Professor of Anatomy and Lecturer on Operative Surgery in McGill University: Surgeon to the Montreal General Hospital.

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UMBILICAL FÆCAL FISTULA IN AN INFANT CURED BY RADICAL OPERATION.

(ILLUSTRATED.)

By FRANCIS J. SHEPHERD, M.D., C.M.,

Professor of Anatomy and Lecturer on Operative Surgery in McGill University ; Surgeon to the Montreal General Hospital.*

CASES of umbilical fæcal fistula in infants are comparatively rare, and when they occur are caused by the inclusion of prolapsed intestine in the ligature used to tie the cord. This intestine may be a herniated portion of small bowel, or, as is most commonly the case, a persistent omphalo-mesenteric duct extending down into the cord. This duct not infrequently persists as a diverticulum from the ileum, ten to sixty inches from the ileo-cæcal valve. It is then called Meckel's diverticulum, and is usually two to three inches long, and of about the same diameter as the bowel. It occurs in about two per cent. of individuals, and chiefly in males. In some rare cases it is connected with the umbilicus by a cord which represents the obliterated duct, and is one of the causes of internal strangulation of the bowel. In still rarer cases the duct is patent not only as far as the umbilcus, but even some distance down the cord. In such cases when the cord is ligatured at birth the duct is included in the ligature, and as the ligature ulcerates through and separates, it cuts through the duct, and hence a fæcal fistula is the result. Now the cure of these fistulæ has always been difficult and unsatisfactory. Holmes asserts that as far as he has seen they are incurable, and Mr. Owen "Surgical Diseases of Children," says no plastic operation or cauterization is apt to succeed, but asserts that he has cured two cases by cleaning out the contents of the bowels with rhubarb and soda, and then keeping the bowels at rest for a fortnight with

^{*} Read before the Montreal Medico-Chirurgical Society, November 20, 1891.

SHEPHERD: Umbilical Fæcal Fistula.

opium in small doses. At the same time the fistula is covered by a thick dressing of vaseline and eucalyptus. It seems to me that only very small facal fistula could be cured by these means, and that the more scientific procedure is the one I adopted with success in the following case :

CASE.—Arthur B., of Moosejaw, N. W. T., aged three months, a strong, healthy, well-nourished infant, was admitted into the Montreal General Hospital, September 18, 1891, suffering from a faccal fistula at the umbilicus. At birth nothing seemed amiss with the cord except that it was thicker than usual. The ligature came away on the fifth day, and the nurse noticed that flatus was escaping from the navel next day. Later faces appeared, and have been discharging in larger or smaller quantities ever since. After the ligature separated, Dr. Turnbull, under whose care the case was, writes me that the stump of the cord appeared much as in other cases, but in a few days began to protrude or grow outward.

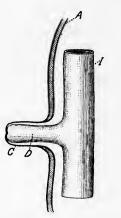
The condition of the umbilicus on entrance into hospital was as follows : "At the site of the umbilicus a protrusion, which is in size and appearance like a child's penis; it is one and a half inches long, with an opening at the extremity looking much like the preputial orifice. The outer surface of the protruded portion is red and vascular, bleeds easily on handling, and very much resembles mucous membrane. There is an areola some three or four inches in diameter around the umbilicus, which is in a raw, red, eczematous condition, owing to the parts being kept continually moist by the constant discharge from the end of the protrusion. On introducing a probe, it enters freely for some distance, and on withdrawing it some yellow faces escape. The fistula is easily dilatable, and a pair of Pean's artery forceps can be passed in with case." Now as to the nature of the protrusion : it was either a portion of prolapsed intestine everted so that the mucous membrane was external, or it was the stump of the cord denuded of epithelium and in an eczematous condition.

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SHEPHERD: Umbilical Facal Fistula.

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The child was shown at the Meeting of the Canadian Medical Association, which happened to be meeting in Montreal at the time, and among others it was seen by Mr. Bryant, of London. The general opinion was that the protrusion was due to everted mucous membrane probably from a persistent vitelline duct. That the fistula was connected with a Meckel's diverticulum was probable, for the excellent condition of the child led me to the conclusion that the fistula was either connected with the large bowel or the lower end of the small intestines.



A, Abdominal wall; C, Stump of cord containing (D) diverticulum from (I) ileum.

Operation for radical cure having been determined on, the patient was put under chloroform on September 19th. An incision was first made through the protrusion, near to its exit from the abdomen. This incision revcaled the fact that it was not mucous membranc, but skin deprived of epithelium; for, on cutting it through, the peritoneal cavity was entered and a portion of bowel seen to be protruding through an opening at the umbilicus; this bowel, by its open extremity, was continuous with the fistula already described. It was now determined to enlarge the incision by opening up the abdominal cavity above the

SHEPHERD: Umbilical Fæcal Fistula.

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umbilicus, and to examine further. This was done, and the protruded portion of the bowel was drawn out and found to be a diverticulum from the small intestines. The diverticulum was cut off close to where it was given off from the gut, and the opening thus left sutured by a double row of continuous silk sutures, the outer row of which included only the peritoneal coat of the bowel. The sutured bowel, after having been found perfectly water-tight, was dropped back into the abdomen, the stump of the cord cut off and the abdominal wound closed with three silkworm-gut sutures. The wound was dusted over with iodoform, covered with absorbent cotton, kept in place by adhesive plaster. The child's condition after operation was excellent. For twenty-four hours it was given no food, and then was allowed to have the breast for a few minutes at a time every two hours. Having to leave town, Dr. James Bell kindly looked after the case for me. The stitches were removed on the sixth day, and the wound was found to be perfectly healed. The child's condition continued good, and he left the hospital on the 25th of September, and went home to the Northwest as well as ever on the 30th. I have since had a letter from Dr. Turnbull, dated November 18, 1891. He writes that the child is in the best of health and growing rapidly.

