

vagina for closure of the fistula, but both of them failed, because the cicatricial tissue allowed the stitches to cut out.

A third operation was proposed, but she refused it and returned to Canada, being admitted soon after to the Western Hospital under my care. After making a series of careful experiments to ascertain whether it was really a uretero-vaginal fistula or not, plastic operations on the vagina were twice repeated without any result, but she was promised that if they failed, she would be cured by a more serious operation, which she readily consented to. Accordingly, on the 15th Aug., transplantation of the ureter was undertaken as follows: the abdominal wall was incised down to, but not through the peritoneum, and the latter was pushed off the pelvic wall until the ureter was found. This was tied, and cut off close to the cicatricial tissue surrounding its lower end about one inch from the bladder; the proximal end was not tied nor hurt in any way, but was gently held in a gauze sponge until it was introduced into a diagonal opening in the upper and anterior surface of the bladder, where it was firmly attached by fine catgut stitches, suturing the mucous membrane of the ureter to the mucous membrane of the bladder, and silk stitches fastening the fibrous coat of the ureter to the muscular wall of the bladder. For fear of accidents, a drainage tube and gauze were left in for a day or two, but there was no leakage. An important precaution was the leaving of a glass catheter *a demeure* for four or five days. Not a drop of urine has come by vagina since, and six weeks after the transplantation, when she left the hospital, she was able to hold her water four hours.

Case II. This was a very stout and flabby woman of forty, who was delivered of a very large child with great difficulty by the aid of forceps, the male blade of which caught the anterior lip of the uterus, the vagina and bladder against the arch of the pubis, making a diagonal cut through all three of them, extending from the urethra to the left vaginal fornix, and making an opening through which three fingers could be introduced into the bladder.