

Case Report

Laparoscopic Davydov Correction of a Failed Gracilis Flap Neovagina in a Patient With Mayer-Rokitansky-Kuster-Hauser Syndrome With a Pelvic Kidney

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ABSTRACT The laparoscopic Davydov procedure is a surgical technique for creation of a neovagina in patients with Mayer-Rokitansky-Kuster-Hauser syndrome (MRKH) or vaginal agenesis. Herein we report its use in creating a neovagina after failure of a previous surgical attempt in a patient with a pelvic kidney, which has not been described to date. The patient, a 28-year-old woman with MRKH in whom creation of a neovagina using bilateral gracilis flaps had been attempted, was unable to have intercourse because of a shortened and scarred vagina. We successfully used the laparoscopic Davydov procedure to create a functional neovagina despite the previous surgery and the presence of a pelvic kidney. The Davydov procedure is an option for use in patients with MRKH with history of unsuccessful neovaginal surgery and can be performed in the presence of a pelvic kidney. *Journal of Minimally Invasive Gynecology* (2013) 20, 262–265 © 2013 AAGL. All rights reserved.

Keywords: Laparoscopic; Mayer-Rokitansky-Kuster-Hauser syndrome; MRKH; Neovagina; Pelvic kidney; Vaginal agenesis

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Mayer-Rokitansky-Kuster-Hauser syndrome (MRKH) is the most common cause of vaginal agenesis, with an estimated incidence of 1:1500 to 1:4000 in female infants [1]. Affected individuals have absence of the vagina and uterus (rudimentary uterine tissue may be present), with the normal 46XX female genotype as well as functional ovaries and the development of normal secondary sexual characteristics. Because these individuals are phenotypically normal, diagnosis is often delayed until adolescence, when primary amenorrhea is noted. Associated abnormalities may include skeletal malformations (most often affecting the vertebral column), auditory deficits, and urinary tract anomalies such as duplication of ureters and horseshoe or pelvic kidney [2].

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Management of MRKH is challenging because confirmation of the diagnosis has a substantial effect on the patient's sense of femininity. Along with psychologic support, creation of a neovagina is mandatory so that the patient can have a normal sex life [2]. Typically, most young women attempt to create a vaginal canal with the use of dilators. However, this is not always successful, and therefore a surgical approach is often considered.

There are multiple options for creation of a neovagina. The laparoscopic modification of the Davydov procedure is a minimally invasive alternative in which the patient's pelvic peritoneum is used for creation of a neovagina [3]. This procedure has not been as extensively described as some of the more commonly performed neovagina procedures such as the McIndoe or Vecchietti operations [5]. In addition, in the currently available literature, the presence of a pelvic kidney has been an exclusion criterion for performance of the Davydov procedure because of the potential risk of damage during laparoscopic mobilization of the peritoneum [1,4]. Herein is reported the case of a patient with MRKH with a pelvic kidney in whom previous neovagina construction failed. To create a neovagina in this patient,

Fig. 1

Sagittal magnetic resonance image of the pelvic kidney.



we elected to use a laparoscopic modification of the Davydov procedure.

Case Report

A 42-year-old premenopausal woman came to our office with a history of congenitally shortened or absent vagina and uterine agenesis as a result of MRKH. She had undergone previous surgery to create a neovagina using gracilis flaps. However, the length achieved was insufficient to allow intercourse between the patient and her husband. On initial examination, the vaginal length was 2.5 to 3 cm, with scarring at the apex and some lateral bulging at each side of the introitus. In addition, the patient had a history of cleft palate

repair, difficult intubation, and a right-sided pelvic kidney (Fig. 1). The patient elected to proceed with the Davydov laparoscopic technique to elongate the neovagina after she was made aware of the possibility of encountering substantial adhesive disease and possible injury to the pelvic kidney during the laparoscopic portion of the procedure. In addition, the patient understood that, depending on the laparoscopic findings, the procedure might not be able to be completed if the pelvic kidney was in a position that would prevent mobilization of the peritoneum to create the neovagina.

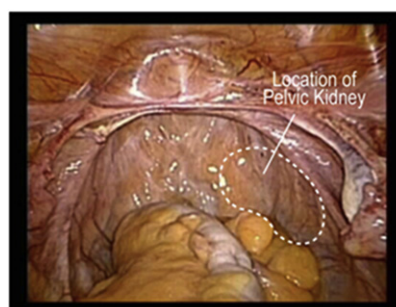
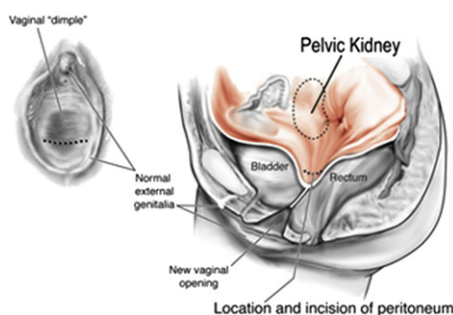
With the patient under general anesthesia, cystoscopy was performed, and a right ureteral stent was placed and maintained during surgery to aid in visualization of the ureter and pelvic kidney. In addition, a Foley catheter was placed, and the vagina was inspected before proceeding with the laparoscopic portion of the procedure. Two 10-mm ports were placed, one at the inferior edge of the umbilicus to accommodate the laparoscope and the other in the left paramedian area. Five-millimeter ports were also placed in the right paramedian area and in the suprapubic region.

Severe bowel adhesive disease was encountered. However, it was reduced without complication to the point at which we were able to identify the anatomic landmarks in the lower abdomen and pelvis and completely free the pelvis of all adhesions. Minimal trauma or bleeding was encountered within the pelvic peritoneum. The right pelvic kidney was identified and thought not to be in a position to preclude completion of the procedure (Fig. 2). Both ureters were identified.

A vaginal approach was then used to make a horizontal incision at the apex of the shortened vagina. Using gentle blunt dissection, the potential space between the bladder and rectum was created. An EEA sizer was passed into the newly created space until it could be directly visualized through the peritoneum from above via laparoscopy. A horizontal incision was then made through the peritoneum, abutting the head of the end-to-end anastomosis (EEA) sizer, creating a communication between the peritoneal cavity and the vaginal opening. This opening was then widened to accommodate at least 2 fingers. A large EEA sizer

Fig. 2

Location of the pelvic kidney in the pelvis.



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