Conservative management using the triple approach and the Rouen technique in large deep rectovaginal endometriosis involving low rectum and sacral roots

Abstract ID : 3410
Submitted by : Roman Horace the 2018-02-14 06:44:07
Category : 10- Endometriosis treatments
Typology : Video
Status : Validated
Authorisation to disclose : Yes/Oui

-------------------------------------

Introduction: Colorectal resection is performed in numerous patients presenting with large endometriosis of mid and lower rectum, however many of these patients develop severe bowel dysfunction resulting in incontinence for flatus and/or feces, urgency, and frequent bowel movements. This combination of symptoms is referred to as rectal low anterior resection syndrome and can be associated with a negative impact on quality of life. To avoid such unfavorable outcomes, we propose an original technique combining vaginal excision of infiltrated vaginal cul de sac, laparoscopic deep rectal shaving and transanal disc excision using a semi-circular stapler: the Rouen technique.

Methods: The Rouen technique is reserved in patients presenting with deep endometriosis nodules infiltrating the low and mid rectum, up to 10cm height, on 5 to 6 cm length, with or without stenosis, on up to 180° width. The video presents the procedure performed in a 32 year-old nullipara referred with a large endometrotic nodule infiltrating the vaginal posterior cul de sac and the anterior wall of the mid/low rectum on more than 30mm length responsible for symptomatic stenosis, and leading to compression of left sacral roots. The first step of the procedure is represented by the excision of vaginal infiltration using a vaginal approach. The second step includes a laparoscopic resection of deep endometriosis nodule, and dissection of left sacral roots. The third step induces deep rectal shaving performed using exclusively the plasma energy, which allows combining the excision of the fibrous nodule with in situ ablation of residual infiltration, until rectal wall becomes soft and thin. Then, transanal excision is performed from rectal approach, by placing traction parachute sutures in the middle and outside the shaved area. Their traction induces the prolaps of shaved rectal wall, that is resected using a semicircular stapler. At the end, diaphragmatic endometriosis is managed by plasma energy ablation.

Results: Operative time was 260 min. Immediate postoperative outcomes were uneventful. Sciatic pain has completely regressed, and baseline dysuria has been improved. To date, the Rouen technique was successfully carried out in 42 women with large deep endometriosis of the mid and lower rectum. To date, no major postoperative impairment of rectal function was observed, particularly no case of anal incontinence. The advantages of the Rouen technique are related to the preservation of the mesorectum, of the overall capacity of the rectum, and the lack of postoperative stenosis of the digestive tract. The disadvantages are related to a more sophisticated procedure requiring the training of the colorectal surgeon and the deep rectal shaving performed by the gynecologist, a tension of the transversal suture which significantly decreases the length of the anterior rectal wall, an excess of posterior rectal wall resulting in a posterior rectal pouch of uncertain symptomatology.

Conclusions: The Rouen technique is a conservative procedure, which is feasible and reproducible in large mid and lower rectal endometriosis and might avoid the risk of unfavorable outcomes related to low colorectal resection.

-------------------------------------

Keywords : deep endometriosis; colorectal endometriosis; disc excision; full thickness excision; colorectal resection; transanal stapler.

Authors : 


References : , ,

Authors

Horace Roman 1, Jean-Jacques Tuech 1,

1. Expert Center in the Diagnosis and Multidisciplinary Management of Endometriosis, Rouen University Hospital, Rouen, FRANCE

Authors (raw format)

Roman Horace - email : horace.roman@gmail.com Institution : Rouen University Hospital Department : Expert Center in the Diagnosis and Multidisciplinary Management of Endometriosis City : Rouen Country : FRANCE Speaker : Yes
Tuech Jean-Jacques - email : Jean-jacques.tuech@chu-rouen.fr Institution : Rouen University Hospital Department : Expert Center in the Diagnosis and Multidisciplinary Management of Endometriosis City : Rouen Country : FRANCE Speaker : No