

Rectal shaving for deep endometriosis infiltrating the rectum: a 5-year continuous retrospective series

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Objective: To report postoperative outcomes after rectal shaving for deep endometriosis infiltrating the rectum.

Design: Retrospective study using data prospectively recorded in the CIRENDO database.

Setting: University tertiary referral center.

Patient(s): One hundred and twenty-two consecutive patients whose follow-up observation ranged from 1 to 6 years.

Intervention(s): Rectal shaving performed using ultrasound scalpel or scissors and plasma energy in 68 and 54 women, respectively.

Main Outcome Measure(s): Postoperative digestive function assessed using standardized gastrointestinal questionnaires: the Gastrointestinal Quality of Life Index (GIQLI) and the Knowles-Eccersley-Scott-Symptom Questionnaire (KESS).

Result(s): Nodules were between 1 and 3 cm, <1 cm, and >3 cm in diameter, in 73.7%, 11.5%, and 14.8% of cases, respectively. They were located on the middle (9.2%) and upper rectum (50.8%). Clavien-Dindo 3a, 3b, 4a, and 4b complications occurred in 0.8%, 5.7%, 1.6%, and 0.8% of cases, respectively. Excepting two rectal fistulas (1.6%), the majority of complications were not related to rectal shaving itself. Gastrointestinal scores revealed statistically significant improvement in digestive function and pelvic pain at 1 and 3 years after rectal shaving, but not constipation. Rectal recurrences occurred in 4% of patients, 2.4% of whom had segmental resection, 0.8% shaving, and 0.8% disc excision. Three years postoperatively, the pregnancy rate was 65.4% among patients with pregnancy intention, 59% of whom conceived spontaneously.

Conclusion(s): Our data suggest that rectal shaving is a valuable treatment for deep endometriosis infiltrating the rectum, providing a low rate of postoperative complications, good improvement in digestive function, and satisfactory fertility outcomes. (Fertil Steril® 2016; ■ : ■ - ■ . ©2016 by American Society for Reproductive Medicine.)

Key Words: Colorectal endometriosis, colorectal resection, rectal endometriosis, shaving

Discuss: You can discuss this article with its authors and with other ASRM members

Rectal shaving is among the first techniques used to treat deep endometriosis infiltrating the rectum (1–3). In the literature, the terms shaving or partial full thickness excision correspond to removal of endometriosis nodules from the rectal wall without opening the lumen (4). For this reason, the technique of shaving does not mandatorily require suturing of the rectal wall, except in cases where the shaved rectal wall is excessively thin. In this latter case, the muscular layer may be considerably

or completely removed, with a consecutive and increasing risk of necrosis and fistula of rectal wall.

Postoperative outcomes of rectal shaving have been evaluated in the literature through retrospective case series, most of them noncomparative. The investigators emphasized low rates of postoperative complications, which were presumed inferior to those after colorectal segmental resection (5, 6). In addition, postoperative digestive function related to conservation of mesorectum and overall rectal capacity could be better after rectal shaving than after colorectal resection (7). Conversely, the rate of postoperative recurrences could be

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119 higher, particularly in women seeking to conceive and having
120 stopped contraceptive pill intake (8).

121 Our case series assessed postoperative rectal function,
122 pelvic pain, fertility outcomes, and risk of recurrence in a se-
123 ries of consecutive patients managed by rectal shaving for
124 deep endometriosis infiltrating the rectum.

125 MATERIALS AND METHODS

126 Patients

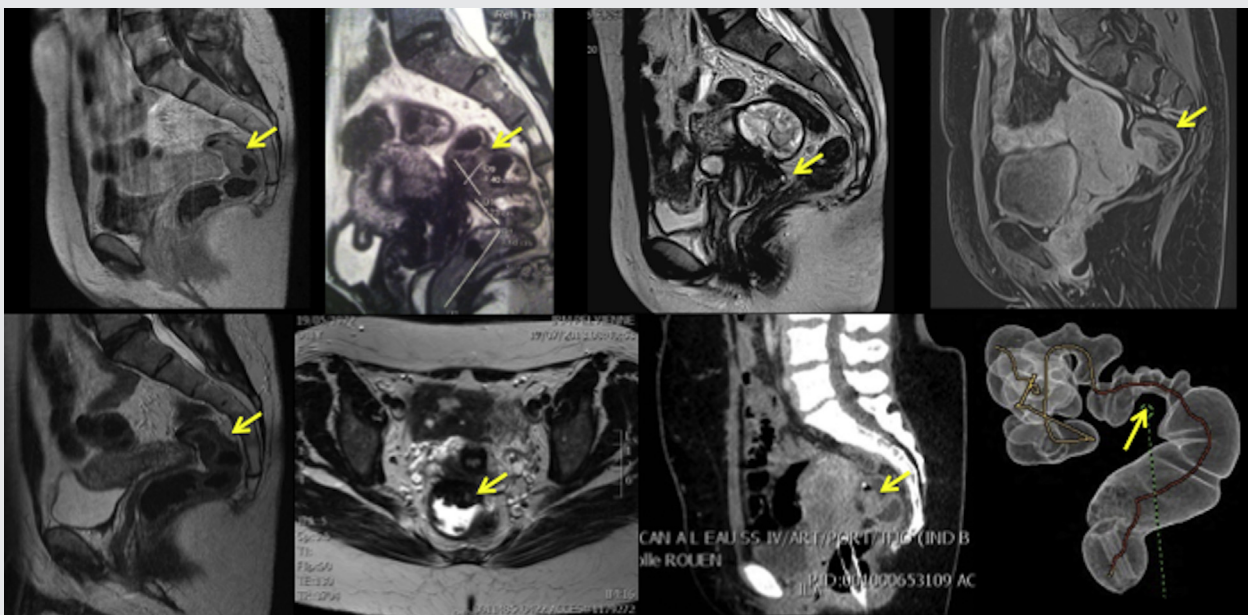
127 We included consecutive patients managed by rectal shaving
128 for deep endometriosis infiltrating the rectum in the Depart-
129 ment of Gynecology and Obstetrics of Rouen University Hos-
130 pital (France) from June 2009 to September 2014, respecting a
131 minimal follow-up of 12 months. Inclusion criteria were deep
132 endometriosis revealed by clinical examination, confirmed by
133 magnetic resonance imaging and/or endorectal ultrasound
134 and intraoperatively; infiltration of the rectal muscular, sub-
135 mucosal, or mucosal layer; rectal involvement up to 15 cm
136 above the anus; and a postoperative follow-up evaluation
137 of more than 12 months. Patients presented with at least
138 one rectal nodule, in some cases associated with nodules
139 located on the upper digestive tract, so segmental resection
140 of the sigmoid colon could be associated with rectal shaving.
141 Patients presenting with deep rectovaginal endometriosis
142 involving only rectal serosa and requiring superficial rectal
143 shaving were excluded.

144 Patients were prospectively enrolled in the CIRENDO
145 database (the North-West Inter Regional Female Cohort for
146 Patients with Endometriosis), a prospective cohort financed

178 by the G4 Group (the University Hospitals of Rouen, Lille,
179 Amiens, and Caen, France), and coordinated by the corre-
180 sponding author of the present study (H.R.). Information
181 was obtained from surgical and histologic records and from
182 self-questionnaires completed before surgery. Data recording,
183 patient contact, and follow-up evaluations were performed by
184 a clinical research technician. Postoperative follow-up evalu-
185 ation was based on data from the aforementioned question-
186 naires completed at 1 and 3 years. Prospective data
187 recording and analysis were approved by the French author-
188 ities CNIL (Commission Nationale de l'Informatique et des
189 Libertés, the French data protection commission) and CCTIRS
190 (Comité Consultatif pour le Traitement de l'Information en
191 matière de Recherche dans le domaine de la Santé, the advi-
192 sory committee on information technology in healthcare
193 research).

194 The protocol for management of patients with rectal
195 endometriosis in our department has been described previ-
196 ously elsewhere (7). Patients underwent preoperative assess-
197 ment of deep endometriosis that included clinical
198 examination, magnetic resonance imaging, endorectal ul-
199 trasonography, and later computed tomography-based virtual co-
200 lonoscopy, performed exclusively by experienced operators
201 (Fig. 1). One senior gynecologic surgeon with experience in
202 surgery of deep endometriosis selected the type of surgery
203 to perform then performed the rectal shaving without being
204 assisted by general surgeons. For the women who were not
205 intending to conceive, postoperative treatment by contin-
206 uous contraceptive pill intake was systematically
207 recommended.

151 **FIGURE 1**



174 Preoperative assessment of deep endometriosis infiltrating the rectum in patients managed via rectal shaving (magnetic resonance imaging and
175 computed tomography-based virtual colonoscopy).

176 Roman. Rectal shaving for deep endometriosis. *Fertil Steril* 2016.

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