IS MARGIN INVOLVMENT MEANINGFULL IN LAPAROSCOPIC RECTAL RESECTION FOR ENDOMETRIOSIS?

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Results

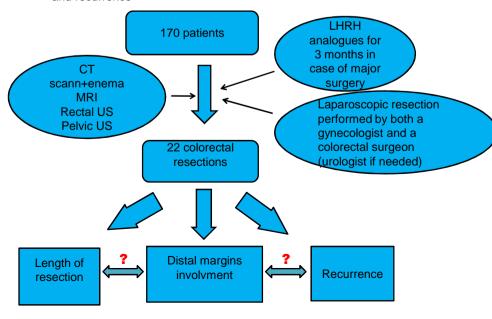
Mortality & Morbidity

Introduction

Laparoscopic colorectal resection is common in case of deep infiltrating endiometriosis. Surgeons's resection length is based on the macroscopical aspect of the bowel and established in order to perform complete resection. In case of proctectomy, increasing length of resection can lead to increased morbidity and diverting stoma rate . However neither the optimal resection margin nor the significance of microscopic margins involvment have been studied.

Method

Retrospective study on patients undergoing colorectal resections for endometriosis. Data from 170 patients treated from 01/2008 to today for endometriosis were extracted from our prospective database. them 22 underwent colorectal resections. Amona Pathological results regarding length of resection, distal margins and margins involvment where studied to assess their influence on follow up and recurrence



Surgery

- >22 colorectal resections
- >2 partial cystectomy
- >8 loop ileostomy
- Distal Transsection level decided peroperatively at a normal part of the bowel
- >Side to end stapled colorectal anastomosis.
 - •2 upper third of the rectum
 - •15 median third
 - •4 low third

- No Mortality
- ▶1 major Morbidity (Pulmonary embolism)
- >1 conversion (lack of exposure in an obese patient)
- >1 anastomosis bleeding requiring reoperation.

Pathology

- >19 Rectal involvment
- >4 Sigmoid involvment
- >Median length of resection 13.9 cm(6-35cm)
- >All margins free from disease at gross examination
- >4 Microscopical margins involvment = R1

Margin involvment was not significantly associated with the location of the initial lesion, level of the anastomosis or length of resected bowel.

Cases of microscopical margin involvment are listed below

	Initial lesion	Level of anastomosis	Length of resection	Macroscopical Margin (cm)
Case 1	rectum	median	13	6
Case 2	rectum	median	15	5
Case 3	sigmoid	Median	18	5
Case 4	rectum	median	7	3

In one of the 4 patients undergoing R1 resection (25%)follow-up (18months) showed a pelvic relapse (ultrasonography). Any clinical or radiological sign of recurrence occured during followup in cases with complete macroscopical and microscopical resection.

Conclusion

Rectal resection for endometriosis is guided by preoperative imaging. Bowel transection is performed considering pre-perative imaging and per-operative aspect of the bowel.

Both surgeons and pathologists can face microscopic margins involvment even if their grosss exam concluded to complete resection

