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OP18 Outcomes of Anastomosis of Mechanically prepared bowel Vs Mechanically unprepared bowel in Laparoscopic Anterior Resection of adult patients with colorectal cancer in surgical units of Teaching Hospital Karapitiya.

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Introduction

The limited evidence in the literature to assist the use of mechanical bowel preparation (MBP) in patients undergoing laparoscopic anterior resection (LAR) remains a question. The aim of this study was to investigate the clinical outcomes of anastomosis of MBP vs mechanically unprepared bowel in LAR.

Methodology

A retrospective comparative study was conducted in the surgical units, Teaching Hospital Karapitiya (THK). Three hundred and six colorectal cancer patients participated in the study, including 151 MBP patients and 155 non-MBP patients and, the post-operative complications and the difference in the costs incurred among two groups were compared.

Results

The anastomotic leakage rate was 2.6% in the no MBP group and 6.0% in the MBP group, ($p=0.143$). Postoperative paralytic ileus rate was 18.5% and 5.8% in the MBP group with no bowel preparation group respectively ($p=0.001$) displaying a significance. Wound infection, Pneumonia, Urinary tract infection and cardiac complication rates also were higher in MBP group. Overall mortality rate was 1.3% in the no MBP group and 2.0% in the MBP group.

Conclusion

Study shows significant increase in the post operative complications in the MBP group. Thus, prophylactic MBP in anastomosis of LAR has not been proven any benefit over the non MBP group.