

Laparoscopic colorectal resection with transanal extraction. Phase II trial

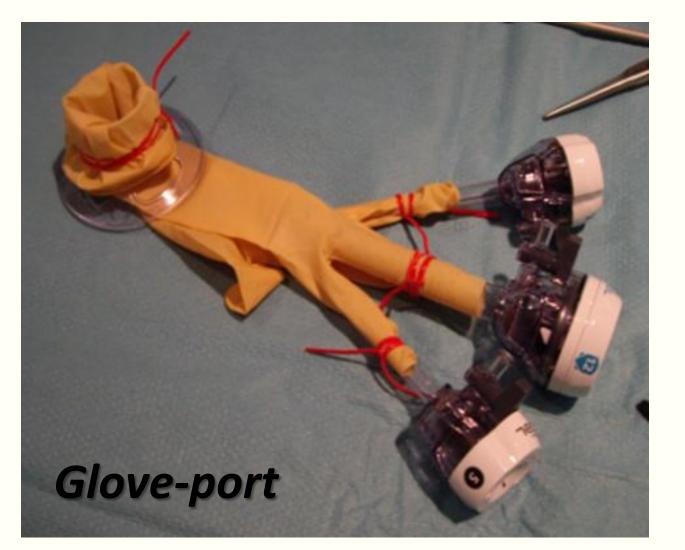


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INTRODUCTION

The laparoscopic technique, what has been consolidated as boarding of choice for colorectal resections, requires a minilaparotomy for the extraction of the specimen. The incision adds pain and morbidity: wound infections and incisional hernias. A prospective descriptive analysis of laparoscopic surgical technique development for colorectal resection is presented using the rectum and/or anal canal as a way to extract the specimen

From October 2009 to April 2014, in two teaching hospitals, 31 colorectal resections was performed by laparoscopy and specimen extraction through the rectum and/or anal canal. The patients were 19 women and 12 men, median age 63 years (range: 22-87). The estimated lesion size did not exceed 3 cm in diameter. In 12 cases some method of protecting rectal stump was used (7 cases by TEO-Storz, 5 cases with Alexis® Applied Medical and 1 case by bag device). In 8 cases transanal endoscopic resection devices were used (6 Glove-port and 2 Gel Point Path®Applied Medical). The followings points were evaluated: Indications, type of surgery, surgical time, adequacy of the surgical specimens, patient recovery time in hospital and mortility.





RESULTS

Indications	Nº
Colorectal Cancer	19
Polyps	5
Familial Adenomatous Polyposis	2
Ulcerative colitis	2
Dolicosigma-volvulus	1

Procedure	Nο
Sigmoidectomy	10
Proctectomy	10
Anterior Resection	8
Total colectomy	3

Surgery	
Time (min.)	177 (100-360)
Conversion (%)	0

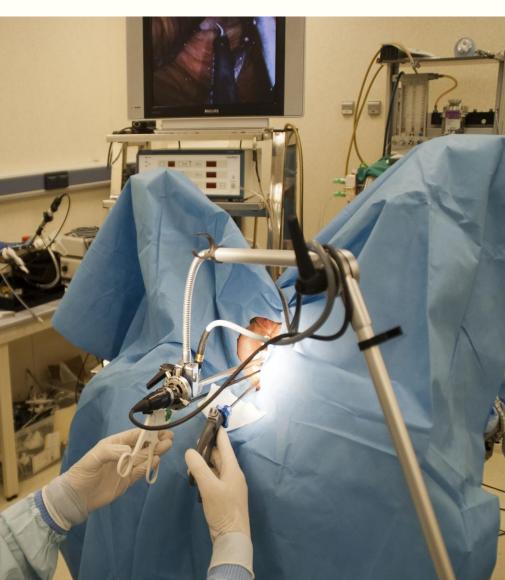
The intraoperative incidents were two openings of the rectal stump and one urethal injury, without requiring stitches. Oral tolerance and digestive transit (stool or gas) presented a median and mode of 2 days. In oncological parts the number of nodes were greater than 12 in all cases. The median postoperative hospital stay was 11 days (range 4-42). During the postoperative, one dehiscence occurred in colonoanal anastomosisl, 4 ileus and one intra-abdominal abscess what needed 2 reoperations and one transrectal drainage. In one case the distal margin was affected. Mortality: Two patients died due to SIRS and pneumonia. Only a case of colo-anal anastomosis alteration was found in sphincter function with Wexner over 10 points.



Phase 0 Trial (Animal)

CONCLUSIONS

Although experience in use of this combined laparoscopic colorectal surgery with removal of transanal specimen is still limited, our results indicate that it is a reproducible, safe and quality oncology technique in selected patients with small lesions located in left-colon and rectum.



Phase 0 Trial (Cadaver)



Phase IIb Trial (Patient)

