Four cases of Hartmann's surgery for rectal cancer with TaTME approach.

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Introduction

Transanal total mesorectal excision (TaTME) is a method of minimally invasive surgery for rectal cancer, which has enabled surgery in compliance with radical TME into narrow pelvis. TaTME is often used in surgery which needs intestinal anastomosis such as low anterior resection, and we have recently introduced to perform in Hartmann's surgery for rectal cancer in our department.

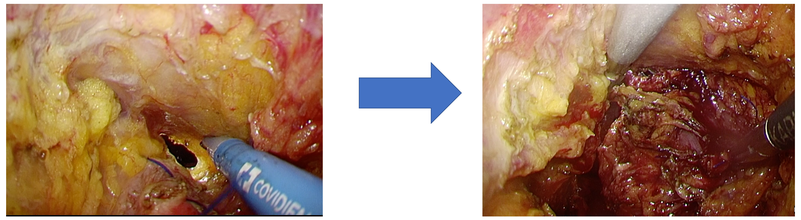
Case presentation

We reported four cases of rectal cancer performed Hartmann's surgery with TaTME in January 2022 to September 2022. After total mesorectal excision, the anal edge of the rectum was closed with a continuous suture by a monofilament absorbable yarn in TaTME. Patient characteristics and surgical outcomes are presented below.

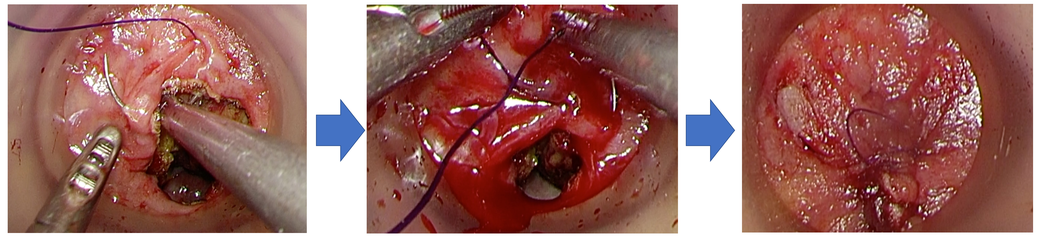
Case	Sex	Age	ASA	PS	BMI	Operation time(min)	Blood loss(ml)	localisation	T	N	M	Postoperative days	Complication
1	male	49	1	0	27.9	273	517	Ra	4a	0	0	16	None
2	female	86	2	2	17.8	311	104	Rb	3	1b	0	21	None
3	male	69	2	3	24.2	390	50	Rb	3	0	0	30	None
4	female	87	2	3	18.8	209	200	Ra	3	0	0	35	None

- The median operation time was 292 minutes (209-390), and the median blood loss was 152ml.
- The average length of postoperative hospital stay was 23.5 days.
- There were no major intra- and postoperative complications.
- The depth of cancer was deeper than T3 in all cases and oncologic resection margins were complete.

Surgical procedure



the abdominal and transanal rendezvous　　the rectum was completely mobilized



continuous suture closure for the anal edge of the rectum by a monofilament absorbable yarn

Discussion

Even in cases of advanced rectal cancer, including elderly patients, the use of TaTME allowed for safe radical Hartmann's surgery. Although continuous suture closure for the anal edge of the rectum demanded technically difficult, it has the advantage of avoid to use the automatic suture machine.

Conclusion

Laparoscopic Hartmann's surgery with TaTME for rectal cancer considered to be a useful procedure for treatment.