

## TITLE:

Laparoscopic redo coloanal anastomosis for rectovaginal fistula following transanal total mesorectal excision – a video vignette

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# - Correspondence

Laparoscopic redo coloanal anastomosis for rectovaginal fistula following transanal total mesorectal excision – a video vignette

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Dear Sir,

Rectovaginal fistula (RVF) can occur as a postoperative complication, typically following sphincter-preserving rectal resection [1]. Although some studies have reported colostomy, fistulectomy, suture closure, pull-through, and redo anastomosis for treatment in such cases, an optimal strategy remains controversial due to high failure rates [2-5]. To achieve successful outcome, several factors needs to be taken into account including the size, location, and etiology of the RVF [6].

A 58-year-old woman was referred to our hospital for treatment of a postoperative RVF that had persisted for more than 1 year following transanal intersphincteric resection at another hospital. As the symptom of RVF, vaginal fecal discharge presented. The RVF was identified 4 cm from the anal verge. Intraoperative vaginal injury was considered a cause of RVF. We initially performed transvaginal local repair with closure of the rectal and vaginal defects; however, the RVF relapsed 3 months later. Therefore, we performed laparoscopic redo anastomosis to treat the RVF.

Under direct vision, we performed intersphincteric dissection transanally approximately 2 cm below the RVF. Thereafter, we switched to a laparoscopic approach and dissected the anastomosed colon down to the pelvic floor. Using a two-team approach, we completed successful resection of the anastomosed colon concomitant with the vaginal posterior wall. After closure of the vaginal wall by interrupted sutures, a pedicled omental flap was interposed between the vagina and re-anastomosed colon to reinforce the closure site. Adding the splenic flexure mobilization and division of the Riolan's arcade, we performed hand-sewn redo coloanal anastomosis.

The total operation time was 560 min, and the intraoperative blood loss was 90 mL. The postoperative course was uneventful. At 6-months postoperative follow-up, no recurrence of the RVF was observed. Although some studies reported that redo coloanal anastomosis is acceptable for morbidity and function [7], the patient's functional outcomes and quality of life require follow-up. Herein, we present the first report of successful treatment of postoperative RVF following taTME surgery for rectal cancer.





## **Conflicts of interests**

Drs. Keita Hanada, Kenji Kawada, Tomoaki Okada, Koji Yamanoi, Masaki Mandai, and Kazutaka Obama have no conflicts of interest or financial ties to disclose.

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