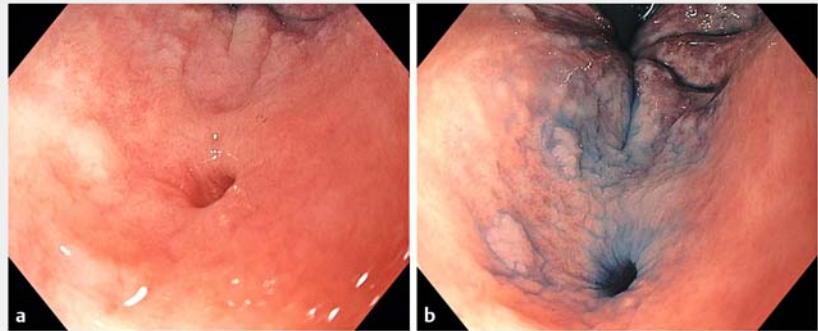


Successful closure of a chronic vesicorectal fistula after radical prostatectomy with an over-the-scope clip



► **Fig. 1** Cystography after the bladder had been filled with contrast media showing contrast in the rectum because of a vesicorectal fistula.

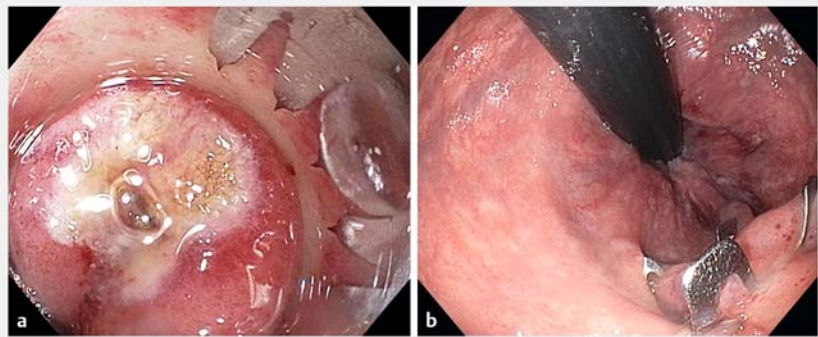


► **Fig. 2** Colonoscopic views showing the epithelialized vesicorectal fistula: **a** before the instillation of indigo carmine into the urinary bladder via a transurethral catheter; **b** after the instillation of indigo carmine.

A vesicorectal fistula after prostatectomy is a nightmare for the urologist. Treatment is challenging, invasive, and often unsuccessful. Endoscopic treatment using an over-the-scope clip (OTSC) may be an elegant alternative for the closure of such fistulas, even if they persist for several months after initial surgery.

We report the case of a 62-year-old man with a vesicorectal fistula originating from the urethrovesical anastomosis after laparoscopic radical prostatectomy. A micturating cystourethrogram 7 weeks after surgery showed the presence of the fistula (► **Fig. 1**), which was treated conservatively at first because of minimal complaints. However, the fistula persisted and was confirmed by endoscopy (► **Fig. 2**).

Fistula closure was performed 5 months after surgery using an OTSC (Ovesco). First, the fistula tract was visualized and debridement of the re-epithelialized fistula tract took place. An OTSC was then placed over the rectal orifice of the fistula, while regular checks were made – by moving the urethral catheter – for patency of the urethra (► **Fig. 3**; ► **Video 1**). Immediately after the procedure, the symptoms of pneumaturia and rectal



► **Fig. 3** Colonoscopic views showing: **a** after debridement of the fistula, the rectal fistula orifice being drawn into the cap of the over-the-scope clip (OTSC) system by applying gentle suction; **b** a retroflexed image of the rectum after OTSC placement.

urine loss disappeared and the patient has remained symptom-free until now, 18 months after the treatment. Endoscopy at 12 months demonstrated that the OTSC had disappeared and a scar was present as a result of the treatment, but there was no sign of a residual fistula. OTSC closure is an effective treatment for acute (iatrogenic) perforations of the gastrointestinal tract [1–4]. In one patient with an early vesicorectal fistula, OTSC application was successful in closing the fistula 5 days after surgery [5].

However, attempts to close chronic vesicorectal fistulas have so far been unsuccessful [4,5]. To our knowledge, this is the first report that describes the successful closure using an OTSC of a chronic vesicorectal fistula. The debridement of the re-epithelialized fistula tract is probably essential for long-term fistula closure in these patients.

Endoscopy_UCTN_Code_TTT_1AQ_2AG



Fistula 5 months after radical prostatectomy

Video 1 Endoscopic closure of a chronic post-surgical vesicorectal fistula by application of an over-the-scope clip (OTSC).

Bibliography

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Competing interests

None

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References

- [1] Shoar S, Poliakin L, Khorgami Z et al. Efficacy and safety of the over-the-scope clip (OTSC) system in the management of leak and fistula after laparoscopic sleeve gastrectomy: a systematic review. *Obes Surg* 2017; 27: 2410–2418
- [2] Saxena P, Khasab MA. Endoscopic management of esophageal perforations: who, when, and how? *Curr Treat Options Gastroenterol* 2017; 15: 35–45
- [3] Weiland T, Fehlker M, Gottwald T et al. Performance of the OTSC system in the endoscopic closure of iatrogenic gastrointestinal perforations: a systematic review. *Surg Endosc* 2013; 27: 2258–2274
- [4] Mercky P, Gonzalez JM, Aimore Bonin E et al. Usefulness of over-the-scope clipping system for closing digestive fistulas. *Dig Endosc* 2015; 27: 18–24
- [5] Brodak M, Kosine J, Tacheci I et al. Endoscopic treatment of a rectovesical fistula following radical prostatectomy by over-the-scope clip (OTSC). *Wideochir Inne Tech Maloinwazyjne* 2015; 10: 486–490