Resection of a large rectal polyp with the simultaneous combination of snare polypectomy and full-thickness resection device resection

A new device for full-thickness colorectal resection, the so-called full-thickness resection device (FTRD; Ovesco Endoscopy, Tübingen, Germany) has been available since November of 2014. It is the first commercial system based on the over-the-scope clip (OTSC) principle. The FTRD consists of a modified 14 t OTSC mounted on a transparent cap, which has a monofilament polypectomy snare preloaded on its tip. The FTRD can be mounted over a standard colonoscope [1]. Because the volume of the transparent FTRD cap is greater than that of the OTSC cap (3 cm³ vs. 0.9 cm³), full-thickness specimens with a median resection surface of 5 cm² (range 1.6 cm² – 12.9 cm²) can be obtained [2].

A 59-year old patient was referred for further treatment after incomplete polypectomy of a large rectal polyp. Histologically, a tubulovillous adenoma harboring high grade dysplasia was described. The index endoscopic procedure demonstrated a villous polyp in the rectosigmoid curve that was difficult to visualize. With a mounted transparent distance cap (MAJ-663; Olympus, Tokyo, Japan), better visualization was possible, and a large, broad-based villous polyp remnant about 3 cm in diameter was seen (Fig. 1).

After the patient had provided informed consent, polypectomy of the polyp remnant was performed close to its base with a standard snare (FlexSnare; Medwork, Höchstadt/Aisch, Germany; Fig. 2). Then, the FTRD was mounted on a colonoscope (CF-H180AI, Olympus), and a full-thickness resection of the entire polypectomy site was carried out uneventfully (Fig. 3). The snare polypectomy remnant and the FTRD specimen measured 3 x 2 x 1 cm and 3.1 x 2.5 x 0.8 cm, respec-
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Fig. 4. The entire procedure is presented in Video 1. Histological examination confirmed full-thickness resection. The polyp remnant contained low grade dysplasia, and the FTRD remnant contained parts of the tubulovillous adenoma with negative resection margins. At follow-up 8 weeks later, the OTSC had detached spontaneously. A normal scar with some granulation tissue (typical after FTRD resection) was seen (Fig. 5).

To our knowledge, this is the first report of simultaneous snare polypectomy and FTRD resection. The volume of the polyp was too large for FTRD resection alone, and it would not have fit into the FTRD cap. After the snare resection, clearly no R0 resection had been obtained. We decided on the simultaneous snare polypectomy and FTRD resection in order to avoid scarring and the development of tissue fibrosis. For successful FTRD resections comparable to OTSC treatment [3], tissue mobilization into the FTRD cap is crucial. At a later time, this might be complicated or even prevented by the healing process after the resection of a large polyp [1–3].

In conclusion, if incomplete snare polypectomy can be expected, additional resection of the polyp base remnant with the FTRD in the same session may be reasonable. Informed consent should be obtained before the procedure, and the necessary materials must be available.

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