

Double-channel colonoscopic snare resection of large pedunculated polyps using a clipping method

The predominant complication associated with colonoscopic polypectomy is bleeding, the rate ranging from 0.44% to 2.6% [1,2]. Iida et al. [3] used a clipping method for endoscopic polypectomy in 40 patients. However, this maneuver might be quite difficult to accomplish with a single-channel endoscope when the endoscopic view of the pedicle is limited. We developed a new and easy clipping technique for double-channel colonoscopic snare resection of large pedunculated polyps in an attempt to reduce the incidence of hemorrhage.

The procedure was performed as follows. A double-channel colonoscope (CF-2T200; Olympus Optical Co., Tokyo, Japan) was inserted to the level of the polyp. An Olympus SD 5U-1 snare was passed through the right channel and the wire loop was placed and closed over the stalk. The polyp head was tented away from the colon wall, providing adequate visualization of the stalk (► Figure 1a). An Olympus HX-600–135 clip was passed through the second channel and fitted onto the pedicle, near enough to the colon wall to allow transection of the stalk above the clip with a sufficiently large margin (► Figure 1b). It is important that the wire snare does not touch the metal clip in case an aberrant current pathway is activated which could burn the colon wall. The stalk was then transected using electrocautery and snare closure (► Figure 1c).

We treated a total of 15 pedunculated colorectal polyps (in 12 patients) with heads all measuring over 10 mm in diameter (mean 20 mm, range 11–32 mm). All the lesions were easily and safely resected. The clipping technique itself took an average of 4 minutes (range 3–6 minutes). No massive bleeding and no perforations occurred during or after polypectomy, and there were no clip-related complications. These preliminary results suggest that our method is an easy and reliable technique for the prevention of postpolypectomy hemorrhage.

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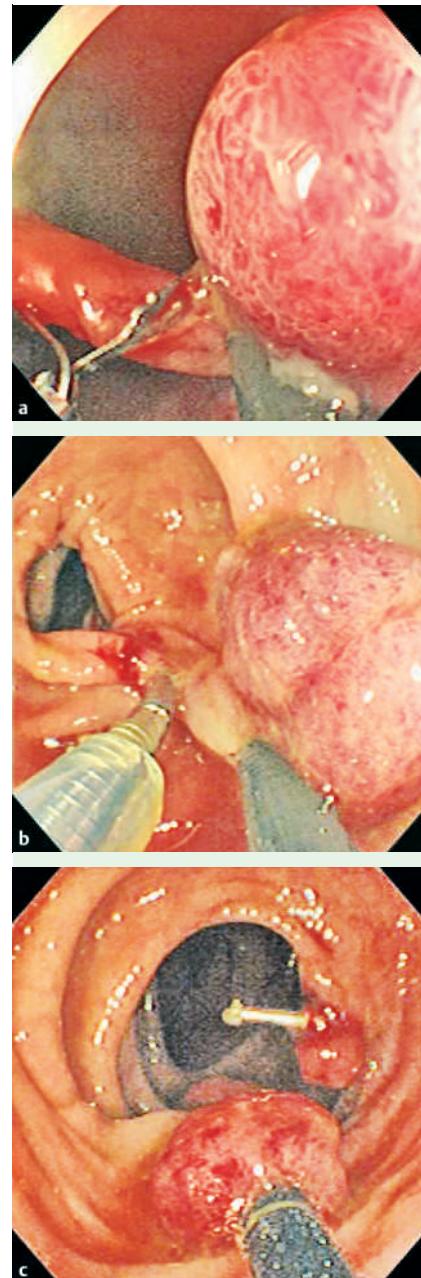


Figure 1 Endoscopic views showing the clipping technique for double-channel colonoscopic snare resection of large pedunculated polyps. **a** The snare loop can be seen completely encircling a pedunculated polyp. The polyp head is tented away from the colon wall, providing adequate visualization of the stalk. A clip has been passed through the second instrument channel to the level of the pedicle. **b** The clip is fitted onto the pedicle near enough to the colon wall to allow transection of the stalk above the clip with an adequate margin. **c** The stalk is transected, leaving the clip in place with no bleeding at the excision site. The polyp is grasped with a tripod.