Polypectomy-snare entrapment is a rare but serious complication of colonoscopy, frequently requiring surgical intervention. We report a case of polypectomy-snare entrapment successfully treated using a novel endoscopic “zip-line” approach that, to our knowledge, has not been previously reported.

A 35-year-old woman underwent a colonoscopy in our office-endoscopy suite, during which a 4 cm, broad-based, semipedunculated polyp was noted in the ascending colon (Fig. 1). After submucosal epinephrine injection into the polyp base, a 25-mm snare was closed around the polyp and current (coagulation and then blended) was applied; however, the polyp could not be transected. The snare appeared to have become embedded in the polyp tissue and could not be opened. The handle of the snare was now cut and, through an "exchange" technique, the colonoscope was withdrawn, leaving the wire of the entrapped snare exiting the anus. A new snare was then inserted through the colonoscope channel and the entrapped-snare wire was inserted through the open snare (Fig. 2 a), which was then partially closed and withdrawn into the colonoscope, leaving a small portion of the snare outside of the channel. The colonoscope, which at this point appeared to be "hanging" from the entrapped wire as if it were on a “zip line” (Fig. 2 b), was reinserted and easily passed to the level of the polyp (Fig. 3 a).
The snare was opened (Fig. 3b), easily positioned below the entrapped snare (Fig. 3c), and then closed. Blended current was then used to transect the polyp without difficulty (Fig. 3d). After an inspection for polypectomy adequacy (Fig. 4), the snare-entrapped polyp was removed along with the colonoscope. Pathology of the polyp revealed a tubulo-villous adenoma. A repeat colonoscopy performed 3 months later showed no residual adenomatous tissue (Fig. 5).

Risk factors for polypectomy-snare entrapment include ensnaring too much tissue, using too low a coag setting during polypectomy resulting in tissue charring around the snare, and frank malignancy. Attempts at nonsurgical management have included needle-knife polyp transection [1] and the use of cautery forceps for targeted piecemeal tissue removal around the entrapped snare in attempts to free it [2].

We report a technique that uses endoscopic equipment normally stocked in an office-based endoscopy setting. Inserting the entrapped wire through the newly placed open snare allowed the second snare to be easily positioned below the entrapped one and the polypectomy to be completed. We propose that the zip-line technique be considered as first-line management for polypectomy-snare entrapment.

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References


Bibliography

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Fig. 4  Endoscopic view showing the site immediately after the polypectomy had been performed.

Fig. 5  View of the ascending colon during an endoscopy performed 3 months later showing no residual adenomatous tissue at the polypectomy site.