Endoscopic Snapshot



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Ligate-and-Resect Technique for Resection of a Large Pseudo-Pedunculated Subepithelial Lesion in the Ascending Colon

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Keywords

Lipoma · Colon · Polypectomy

Técnica de ligadura e resseção para a exérese de uma lesão pseudo-pediculada volumosa no cólon ascendente

Palavras Chave

Lipoma · Cólon · Polipectomia

A 66-year-old male with a medical history of diabetes and hypertension was referred for resection of a large pedunculated lesion in the ascending colon, found in a screening colonoscopy. During the second colonoscopy, a pseudo-pedunculated subepithelial lesion with 35 mm (Fig. 1a, b) and a long and thick pseudo-stalk (Fig. 1c, d) was found in the ascending colon. The mucosa over the lesion was congestive with discrete erosions and a slight yellow tone from the subepithelial lesion was evident. With a dual channel colonoscope (Olympus, CF-2T160I), an endoloop (Olympus, MAJ-254) was placed near the base of the pseudo-stalk (Fig. 2a). Using the loop-over-

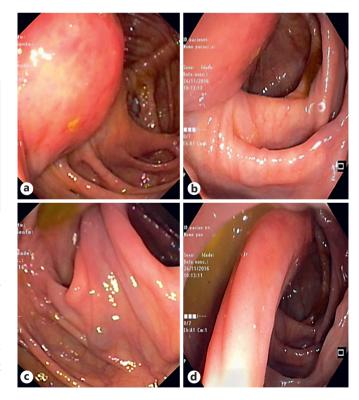


Fig. 1. Endoscopic appearance of the pseudo-pedunculated subepithelial lesion on the ascending colon. **a**, **b** Head of the lesion. **c**, **d** Pseudo-stalk.

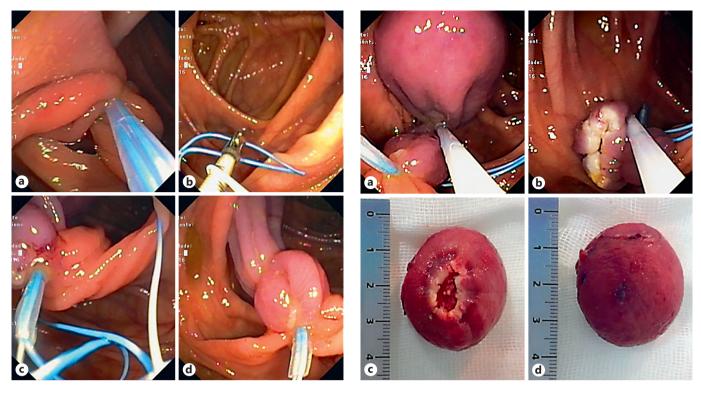


Fig. 2. Loop-over-loop technique. **a** Placement of the first endoloop. **b**, **c** Grasping of the first endoloop using a grasping forceps inside a second endoloop to place the second endoloop below the first one. **d** Tightening of the second endoloop with visible congestion of the mucosa above.

Fig. 3. Resection of the lesion. **a** Resection of the subepithelial lesion above the two endoloops. **b** Polypectomy scar immediately after resection. Apical (**c**) and base aspects (**d**) of the lesion.

loop technique, a second endoloop was placed below the first endoloop (Fig. 2b). A grasping forceps placed in the second working channel was used to pull the first endoloop and retract the lesion into the second endoloop (Fig. 2c, d). Resection of the lesion with a conventional oval snare was then safely performed above the two endoloops (Fig. 3a, b) and the lesion was captured (Fig. 3c, d) for histological analysis, which revealed complete resection of a 30-mm lipoma with non-dysplastic overlying mucosa.

Colonic lipomas are benign adipose tissue tumors predominantly arising from the submucosal layer, with a reported incidence of approximately 0.2–4.4% [1]. In most cases, colonic lipomas are asymptomatic and found incidentally [1]. Nevertheless, large lipomas (>20 mm) are more prone to cause abdominal pain, diarrhea, or constipation, and less frequently, gastrointestinal bleeding, intestinal occlusion, and intussusception [1]. In this case, the lipoma was felt prone to complications as it was large and very mobile from its pseudo-pedunculated morphol-

ogy and already had an overlying congestive and eroded mucosa resulting from mechanical trauma from peristalsis. As there is no consensus on the resection or surveillance of asymptomatic large colonic lipomas, the patient must be involved in the decision. Resection is usually the preferred option because of the fear of complications and the relative low risk of the endoscopic techniques when the characteristics of the lesion are favorable, as in this case [1]. One of the most common practices for the treatment of large subepithelial colonic lipomas is the ligateand-let-go technique along with removal of one fragment of the lesion for histological analysis using the unroofing technique [2–4]. The use of two endoloops increases the efficacy of this technique and reduces the risk of perforation [5]. In this case, the long pseudo-stalk allowed the safe resection of the lesion after placement of the two endoloops, with the advantages of histological characterization of the entire lesion and higher complete resection rate. Thus, in selected cases, this approach may be an alternative to consider to the ligate-and-let-go technique.

Statement of Ethics

Disclosure Statement

This study did not require informed consent nor review/approval by the appropriate ethics committee.

The authors declare no conflicts of interest.

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