Double-scope resection of a large duodenal polyp

An 83-year-old man underwent right colectomy with ileostomy because of Ogilvie syndrome with perforation of the ascending colon. After 10 days, the patient, who had multiple co-morbidities, had a myocardial infarction without ST-segment elevation. For this reason, percutaneous coronary intervention with the application of bare metal stents was required, and he subsequently received the standard dosage of antiplatelet therapy with acetylsalicylic acid and clopidogrel.

Because of recurrent episodes of upper gastrointestinal bleeding with hematemesis and a decreasing hemoglobin level, an esophagogastroduodenoscopy was performed, which identified a large, bleeding, pedunculated polyp at the duodenal bulb (Fig. 1, Fig. 2). Because the stalk of the polyp was more than 10 cm long, it was impossible to pull the endoscopic snare (FlexSnare; Medwork, Höchstadt/Aisch, Germany) around the stalk. Therefore, an attempt was made to resect the polyp by bending the stalk into a U-shape close to its base in the polypectomy snare (Fig. 3).

Resection with electrocoagulation was intended, but meanwhile bleeding occurred. After the injection of epinephrine 1:10 000 and the application of hemoclips (Long Clip HX-610–090L; Olympus, Tokyo, Japan), a clear view was restored. The stalk of the polyp had a diameter of approximately 1 cm. The endoscopic snare failed to cut through the whole polyp stalk, which was folded at its base, and caused only tangential injury. An effort was made to dissect the remaining polyp stalk by using the tip of the polypectomy snare with electrocoagulation and an almost totally closed polypectomy snare (arrow). The resulting tangential cutting plane is clearly visible. Double-scope resection with the simultaneous use of argon plasma coagulation (star) and the application of tissue tension with an endoscopic grasper (triangle) introduced via the second endoscope (Fig. 4 a, Fig. 4 b).

Resected specimen: a duodenal lipoma with a total length of 11 cm (Fig. 5).

Fig. 1 Duodenal polyp in situ in an 83-year-old man receiving antiplatelet therapy with acetylsalicylic acid and clopidogrel after a myocardial infarction.

Fig. 2 The base of the polyp.

Fig. 3 Approaching the polyp with an endoscopic snare (arrow).

Fig. 4 a Dissection of the polyp base with electrocoagulation and an almost totally closed polypectomy snare (arrow). The resulting tangential cutting plane is clearly visible. b Double-scope resection with the simultaneous use of argon plasma coagulation (star) and the application of tissue tension with an endoscopic grasper (triangle) introduced via the second endoscope.

Fig. 5 Resected specimen: a duodenal lipoma with a total length of 11 cm.

Fig. 6 Polypectomy site treated with an over-the-scope clip (star).
snare like a needle knife. However, because of the flat position of the stalk in the duodenum, the orientation of the resection became too tangential to the axis of the polyp (Fig. 4a).

Next, a pediatric gastroscope (GIF-XP190N; Olympus) was introduced into the duodenum in addition to the standard endoscope (GIF-HQ190; Olympus). Now, the polyp stalk could be stretched upward by using a grasper (MTW, Wesel, Germany) and the standard endoscope. Introduction of an argon plasma probe (MABS GIT 1.8-mm probe; KLS Martin, Tuttlingen, Germany) through the pediatric endoscope allowed an uneventful en bloc resection of the polyp close to its base (Fig. 4b). Finally, five hemoclips and 2 mL of fibrin glue (Tissucol Duo; Baxter Deutschland, Unterschleißheim, Germany) were applied to the polypectomy site to prevent bleeding.

The resection of large lipomas may be technically challenging [5]. If resection appears to be impossible with a single gastroscope, the double-scope resection we have described, although maneuverability is difficult, provides an elegant alternative to surgery.

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References


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