A 73-year-old man was referred for therapy of a duodenal adenoma discovered incidentally for an esophagogastroduodenoscopy (EGD) performed for evaluation of gastroesophageal reflux disease. On EGD the polyp (▶ Fig. 1) measured 3 cm and was sessile and slightly elevated (Paris classification 0-IIa). Preparations were made for endoscopic mucosal resection (EMR). A solution of 3% heta-starch, normal saline, and methylene blue was injected into the submucosal layer of the distal aspect of the polyp. The distal aspect of the polyp lifted well. An attempt was made to lift the central and proximal component of the polyp, but the lift was not adequate to allow EMR. Attempts were made using a waterjet probe (ErbeJet 2; Erbe USA, Marietta, GA, USA) at high settings of 360 psi (Effect 25) and then 725 psi (Effect 50). Given the lack of lifting after submucosal injection, the decision was made to perform cryotherapy using the CryoBalloon (C2 CryoBalloon Focal Ablation System; Pentax Medical, Redwood City, CA, USA). This had been discussed with the patient prior to the procedure as a back-up option. Two 10-second ablations were applied to the polyp (▶ Fig. 2). A deep erythema of the polyp was seen, indicating effective ablation. The polyp was biopsied extensively using a jumbo biopsy forceps, and the pathological study showed low-grade dysplasia (histology immediately after cryotherapy is not affected by the cryotherapy, the effects of which occur later). The patient returned 3 months after the procedure for follow-up. At this point about 30% of the polyp remained (▶ Fig. 3). Another CryoBalloon ablation treatment was applied, this time with a single 10-s ablation. Biopsies again showed low-grade dysplasia. At 6-month follow-up no polyp remained. Biopsy of the scar showed benign tissue (▶ Fig. 4).
This case shows that CryoBalloon cryotherapy can be an effective option for eradication of duodenal polyps when EMR cannot be performed.

Competing interests

A.J.T. is a consultant to Pentax Medical. All other authors have no conflict of interest to report.

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