A 20-year-old woman was referred to our hospital for recurrent postprandial epigastric pain and vomiting. Physical examination revealed no abdominal mass, and laboratory data were within normal limits except for slight elevation of serum amylase (301 U/l). Esophagogastroduodenoscopy identified double duodenal lumens at the inferior duodenal flexure (Fig. 1 a). One lumen was discovered to lead into a blind sac (Fig. 1 b), which was identified as a soft tissue mass in the third portion of the duodenum, covered by normal-appearing duodenal mucosa (Fig. 1 c). In a double contrast study of the small intestine, the blind sac was noted to be surrounded by a narrow radiolucent line, the so-called “windsock sign” (Fig. 2). We thus diagnosed the patient as having a pocket-type intraluminal duodenal diverticulum (IDD) [1]. Considering the patient’s recurrent abdominal symptoms, we treated her condition with an endoscopic canalization technique using the two-channel method; the bottom of the IDD was externally held with grasping forceps from the true lumen and was resected by snaring with electrocautery without any complication (Fig. 3). Histologically, both surfaces of the resected specimen were covered by normal duodenal mucosa (Fig. 4). Although IDD is generally treated surgically [2], therapeutic endoscopy has been increasingly applied [3]. Two types of therapeutic endoscopy using snare or needle devices for endoscopic submucosal dissection and endoscopic injection sclerotherapy have been reported so far [3–7]. However, incision of IDD using needle devices may carry a risk of duodenal perforation and internal excision by snaring requires inversion of the diverticular wall. Because external canalization using the two-channel method enables keeping the IDD away from the duodenal wall, this procedure seems preferable for the treatment of pocket-type IDD.

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