A 23-year-old white woman underwent colonoscopy for the investigation of hematochezia. She was found to have a 5-cm pedunculated polyp in the sigmoid colon (Figure 1). A standard injection-assisted polypectomy was performed. A 10-mm defect was noted immediately afterward at the polypectomy site (Figure 2a), and this was closed using six endoscopic clips (Figure 2b). The area was tattooed with India ink.

After the procedure the patient developed severe abdominal pain and leukocytosis. Computed tomography showed retroperitoneal air. She was managed conservatively, including antibiotics, and was discharged home 5 days later. Histology revealed a tubulovillous adenoma with a thick portion of the muscularis propria invaginated in the stalk (Figure 3). Her follow-up colonoscopy at 6 months was normal (Figure 4).

In general, polyp stalks do not contain a muscularis propria layer. However, removal of the muscularis propria layer is strongly correlated with colon perforation in patients with large colonic lipomas [1]. The exact frequency of this finding in post-polypectomy perforation is unknown. In our patient, intestinal peristalsis probably caused a continuous pulling effect on the polyp and its pedicle, which dragged the attached bowel segment, resulting in mechanical protrusion of the deeper layer of the bowel wall into the polyp stalk. Pedunculated tumors have been reported to act as the leading point in intussusception [2]. There is limited evidence that large lipomas can be removed safely by endoscopy after endoscopically confirming that the muscularis propria layer is not involved [3]. The same approach might apply to large pedunculated polyps with a broad pedicle. Endoscopic removal might identify the presence of this finding. One should be aware of this finding and consider prior endosonographic evaluation prior to endoscopic removal.


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ence of a muscularis propria layer in the stalk and could help to avoid the complication of post-polypectomy perforation in this setting.

The use of endoclips to close gastrointestinal perforations has been reported previously [4], based on the premise that immediate closure of the perforation should minimize contamination of the peritoneal cavity. However, controlled data are lacking. We treated our patient conservatively because of the small size of the perforation and because it was closed immediately, thus minimizing the risk of fecal contamination.

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References


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