In an otherwise healthy 39-year-old female patient with a family history of colon carcinoma, a sessile adenoma with low-grade intraepithelial neoplasia of approximately 2.5 cm was found in the cecum during screening colonoscopy. After indigo carmine staining the adenoma was lifted by submucosal injection of 8 mL normal saline containing epinephrine 1:100,000, and endoscopic mucosal resection (EMR) was performed using a standard polypectomy snare (Fig. 1).

The day after the procedure the patient developed generalized abdominal defense, and an abdominal radiography was performed showing a pneumoperitoneum (Fig. 2). Because of a suspected perforation of the cecum the patient underwent explorative laparotomy and ileo-cecal resection the same day. Macroscopically, only a hematoma of the cecal wall was seen, and neither perforation of the cecum nor local peritonitis was observed intraoperatively, and thus primary anastomosis was performed. The patient was discharged in good health 5 days later. Histopathological analysis of the resectate revealed a defect at the site of mucosal resection down to the muscularis propria, with granulocytic infiltrates and a pneumatosis of the cecal wall (Fig. 3 and Fig. 4).
Perforation of the colon is a common complication after EMR, with an incidence of up to 0.5% [1] and frequently requiring surgical repair [2]. We report here a case where clinical and radiological signs of perforation following polypectomy were present, although no transmural opening of the cecal wall was observed at laparotomy or histopathologically. We conclude that the presence of a radiologically proven pneumoperitoneum does not necessarily indicate perforation of the colon, but might merely reflect translocalization of inflated air through the thinned colonic wall. Caution should be given to the evaluation of the clinical relevance of these symptoms and the indication for surgery. It has been reported that nonoperative management of even colonic perforation might be possible in selected patients [3].

**References**


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