Retroflexion-induced perforation during colonoscopy after polypectomy: a word of caution

A 75-year-old man underwent colonoscopy (Pentax colonoscope, EC3970Li, air insufflation; Tokyo, Japan) for colorectal cancer screening and was found to have a small pedunculated polyp (1 cm) in the rectum (Fig. 1a). A snare polypectomy was performed and the procedure was uncomplicated.

After the polypectomy had been completed, a retroversion maneuver was attempted. When the scope was straightened, a perforation measuring about 4 cm was noted in the rectal wall at the site of the polypectomy (Fig. 1b), through which the intraperitoneal structures visible through the perforation in the rectal wall; complete closure of rectal wall perforation with metal clips.

The patient received intravenous ceftriaxone (2 g once daily) and metronidazole (500 mg 8-hourly) for 5 days. A computed tomography (CT) scan of abdomen was done 48 hours later and showed no evidence of perforation or leakage of contrast from the rectum. He was discharged on the third day after the colonoscopy and was asymptomatic at follow-up. Histology showed the polyp to be a tubular adenoma.

Colonoscopy-related perforations are generally small (< 1 cm) and if they are detected early, they can be managed with the application of metal clips. There are four reports of the closure of large perforations (> 3 cm) with multiple clips [1–3] and with over-the-scope clips (OTSCs), which are used for closure of perforations of up to 2 cm but have also been used for larger perforations, though with somewhat lower overall success rates (88% for perforations < 3 cm and 75% for those > 3 cm) [4]. However, the application of OTSCs to chronic lesions with surrounding fibrosis works less efficiently.

Rectal perforations related to colonoscopic retroflexion are usually small and below the level of the peritoneal reflection. The linear rent in this case indicates that the perforation was likely due to the scope tip and not to the bent section of scope [5]. We report a rare occurrence of a large retroflexion-related intraperitoneal rectal perforation that was closed successfully with metal clips. With this report, we re-emphasize that after any therapeutic procedure in the rectum, retroflexion should be done with great caution, as even in expert hands, it can result in complications.

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