Endoscopic extraction of a special foreign body impacted in the colon

A 22-year-old man was admitted to the emergency department reporting insertion of a long foreign body into his anus 6 hours previously. Physical examination showed no signs of peritonitis. An abdominal computed tomography (CT) scan showed the foreign body in the descending colon and proximal rectum, with no signs of perforation (Fig. 1). Emergent endoscopy was performed and showed that the foreign body was 35 cm from the anus and completely obstructing the bowel lumen (Fig. 2).

We used a polypectomy snare and grasping forceps in succession to attempt to remove the foreign body but failed, despite several attempts, owing to the limited space between the foreign body and the bowel wall, and the slippery surface of the foreign body. Subsequently, we inserted two balloons (one at the proximal end of the foreign body and the other at the distal end) under fluoroscopic guidance (Fig. 3), and were able to pull the foreign body out by about 5 cm. Although further movement could not be achieved using this method, it did create more space between the foreign body and the bowel lumen. We then returned to the combination of the snare and grasping forceps to extract the foreign body (Fig. 4). Finally, the foreign body was grasped by the snare and then extracted easily (Video 1). The foreign body was about 46 cm in length and 3.5 cm in diameter (Fig. 5). The patient was discharged on the same day, with no further discomfort.

Snares are commonly used to extract long foreign bodies [1]; however, in some cases, the procedure can be difficult because of the location, size, shape, or other features of the foreign body, meaning grasping forceps or balloons may play an unexpected role [2, 3]. As presented in this case, a combination of two or more devices may achieve better results if a single approach does not work.

Endoscopy_UCTN_Code_TTT_1AQ_2AH
Competing interests
The authors declare that they have no conflict of interest.

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Acknowledgments
We acknowledge the support from the Health Commission of Sichuan Province (GB2018001).

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DOI https://doi.org/10.1055/a-1097-5302
Published online: 2020
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Video 1 Endoscopic extraction of a special foreign body that was impacted in the colon.

Fig. 5 Photograph of the extracted foreign body, which was 46 cm in length.

Video 1 Endoscopic extraction of a special foreign body that was impacted in the colon.

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Feng Yilong et al. Endoscopic extraction of colonic foreign body... Endoscopy