Combined endoscopic and surgical management of small-bowel polyposis in a patient with Peutz-Jeghers syndrome

Peutz-Jeghers syndrome (PJS) is a hereditary condition characterized by hamartomatous polyps throughout the gastrointestinal tract, typically in the small bowel and colon [1,2]. PJS carries an increased cancer risk and requires lifelong surveillance in order to detect polyps that may cause both intussusception obstruction and cancer [1,2].

A “clean sweep” is a combined endoscopic and surgical procedure for the management of small-bowel polyps in PJS [3]. At laparotomy, the surgeon telescopes the endoscope over the small bowel with subsequent endoscopic/surgical polypectomy, minimizing the need for bowel resection and reducing the risk of short-gut syndrome [3]. This procedure was converted to a surgical resection, but this revealed multiple polyps more proximally throughout the small bowel. To clear the remaining small-bowel polyps, a clean sweep was performed. A pediatric colonoscope was introduced orally and advanced distally to the ileal anastomosis by plicating the bowel over the scope (Fig. 1). About 50 polypectomies were then performed using endoscopic mucosal resection (Fig. 2).

At the 3-month follow-up, magnetic resonance enterography identified no high-risk polyps in the small bowel. The combination of endoscopy and surgery allowed effective management of the obstructing ileal polyp and overall polyp burden.

Endoscopy_UCTN_Code_TTT_1AT_2AF
Competing interests
None

The authors
Feng Li1, Neal Mehta1, David Liska2, Beatrice Dionigi2, Matthew F. Kalady2, Carol A. Burke1, Amit Bhatt1
1 Department of Gastroenterology, Hepatology and Nutrition, Cleveland Clinic Foundation, Cleveland, Ohio, United States
2 Department of Colorectal Surgery, Cleveland Clinic Foundation, Cleveland, Ohio, United States

Corresponding author
Amit Bhatt, MD
Department of Gastroenterology, Hepatology and Nutrition, Cleveland Clinic Main Campus, Mail Code A31, 9500 Euclid Avenue, Cleveland, OH 44195, United States
Fax: +1-216-444-6284
Bhatta3@ccf.org

References

Bibliography
DOI https://doi.org/10.1055/a-1011-4122
Published online: 2019
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at https://mc.manuscriptcentral.com/e-videos