Small intestinal obstruction by a Peutz-Jeghers polyp – double-balloon enteroscopic removal

A 38-year-old woman with Peutz-Jeghers syndrome was admitted due to a 2-week history of intermittent abdominal pain and symptoms of incomplete intestinal obstruction. She had experienced symptoms of incomplete intestinal obstruction 2 years previously, and had undergone explorative laparotomy, which revealed a large polyp of the jejunum that required resection. On admission, laboratory results of the patient were unremarkable. Physical examination revealed a mild distension of the upper abdominal quadrants. Abdominal radiograph gave no hint of bowel obstruction.

Double-balloon enteroscopy via the oral route was carried out, and revealed a polyp at approximately 150 cm distant from the pylorus, which nearly completely occluded the intestinal lumen (Figure 1). Using guided double-balloon enteroscopy, the polyp was captured with a snare and resected by electric cautery. Resection and salvage of the polyp in one piece was achieved (Figure 2). No subsequent complications occurred. Histology showed a hamartoma with adenomatous components. Further examination of the remaining small bowel was refused by the patient. The patient was discharged in good health 1 day after the intervention. No intestinal symptoms reappeared in the following 12 months.

Peutz-Jeghers syndrome is characterized by multiple gastrointestinal hamartomatous polyps [1]. Peutz-Jeghers polyps have an increased risk of developing malignancy and they bear the risk of complications, such as intestinal hemorrhage or intestinal obstruction. As localization of symptomatic polyps in the small bowel prevents access by conventional gastrointestinal endoscopy, the majority of comparable cases have required surgical treatment [2].

Technical advances in endoscopy of the small bowel have been achieved by the invention of push-enteroscopy; nevertheless its range is limited [3]. Capsule endoscopy provides images from the whole small intestine [4], but lacks the ability to include therapeutic interventions, and moreover bears the potential complication of capsule impaction [5]. The recent invention of double-balloon enteroscopy [6] has improved greatly the ability to image the small intestine; moreover it enables endoscopically directed therapy to be carried out.

In the present clinically subacute setting, recurrence of a symptomatic Peutz-Jeghers polyp was likely. In order to avoid surgical re-intervention, double-balloon enteroscopy was carried out as a first-line diagnostic procedure. This proved to be a successful minimally invasive diagnostic and therapeutic method, accurately visualizing the polyp and allowing effective, definitive, and safe therapy by polypectomy. This report points out the beneficial role of double-balloon enteroscopy in Peutz-Jeghers syndrome with symptomatic polyps of the small intestine, potentially obviating the need for surgical intervention.

References


Bibliography

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Corresponding author
H. Ullerich, MD
Department of Medicine B
Westfaelische Wilhelms-Universitaet Muenster
Albert-Schweitzer-Str. 33
D-48129 Muenster
Germany
Fax: +49-251-8347576
ellerih@mednet.uni-muenster.de

Figure 1 Double-balloon enteroscope video image of a snare-captured Peutz-Jeghers polyp in the jejunum, which nearly completely occluded the intestinal lumen.

Figure 2 Resected Peutz-Jeghers polyp of the jejunum, measuring 25 mm (width) × 50 mm (length). Histopathology showed a hamartoma with adenomatous components.