Retrograde single-balloon enteroscopy for a symptomatic, unusual, ileal polypoid lesion

Meckel’s diverticulum is a remnant of the omphalomesenteric duct, which is normally obliterated between the 5th and 8th week of gestation. It occurs in 2% of the population [1] and it is often an incidental finding. Anatomically, Meckel’s diverticulum comprises all layers of the intestinal wall and, in approximately 50% of cases, contains ectopic tissues which can cause complications. Meckel’s diverticulum can cause abdominal pain, bleeding, and intestinal obstruction but is rarely symptomatic (4%) [2]. Adult intussusception due to an inverted Meckel’s diverticulum has also been reported [3].

We report the case of a 42-year-old man who was referred to our institution because of mild microcytic anemia (hemoglobin 10.9g/dL) and a positive fecal occult blood test. Family and past medical history were unremarkable. The patient underwent outpatient gastroscopy and colonoscopy, with negative macroscopic results. Histological analysis of the duodenum, stomach, and colon specimens was inconclusive.

While awaiting a video capsule endoscopy appointment, the patient was admitted to our emergency department because of right lower abdominal pain. Computed tomography of the abdomen revealed a suspicious intussusception of the ileum, which was due to the presence of a tumor. A retrograde single-balloon enteroscopy (GIFQ180; Olympus, Tokyo, Japan) revealed the presence of an inverted Meckel’s diverticulum with eroded apex in the distal ileum (70–90 cm proximal to the ileocecal valve). We marked the site with a tattoo (Spot; GI Supply, Mechanicsburg, Pennsylvania, USA) and an endclip for laparoscopic segmental ileum resection (Video 1). Histological analysis of the surgical specimen confirmed the diagnosis of inverted Meckel’s diverticulum and also showed the presence of inflamed heterotopic pancreatic tissue, as described in the literature in 5% of cases [4]. At follow-up 2 months later, the patient had no symptoms and normal hemoglobin levels.

In conclusion, intussusception of Meckel’s diverticulum is a rare but important clinical entity with nonspecific presenting symptoms. Diagnosis of Meckel’s diverticulum intussusception should be considered and radiologically suspected. Enteroscopy can guide the appropriate surgical or endoscopic management.

Endoscopy_UCTN_Code_CCL_1AC_2AH

Competing interests

Cristiano Spada is consultant for Medtronic and received speaker and travel support from Olympus.

The authors

Nicola Olivari1, Sebastian Manuel Milluzzo1,2, Denise Bianchi3, Cristiano Spada1,4
1 Department of Medicine, Gastroenterology and Endoscopy, Fondazione Poliambulanza, Brescia, Italy
2 Department of Gastroenterology, Fondazione Policlinico Universitario A. Gemelli IRCCS – Università Cattolica del Sacro Cuore, Roma, Italy
3 Pathology Unit, Fondazione Poliambulanza, Brescia, Italy
4 Digestive Endoscopy Unit, Fondazione Policlinico Universitario A. Gemelli IRCCS – Università Cattolica del Sacro Cuore, Roma, Italy

Olivari Nicola et al. Retrograde SBE for ileal polypoid lesion... Endoscopy 2019; 51: E183–E184
Corresponding author

Sebastian Manuel Milluzzo, MD
Digestive Endoscopy Unit and Gastroenterology, Fondazione Poliambulanza Istituto Ospedaliero, Via Leonida Bissolati 57, Brescia 25124, Italy
Fax: +39-030-3518221
sebastian.m.milluzzo@gmail.com

References


Bibliography
DOI: https://doi.org/10.1055/a-0875-3402
Published online: 12.4.2019
Endoscopy 2019; 51: E183–E184
© 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

E184

Olivari Nicola et al. Retrograde SBE for ileal polypoid lesion... Endoscopy 2019; 51: E183–E184