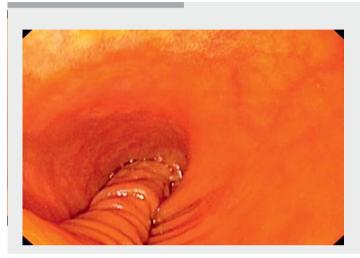
Thieme

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 10.9 g/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





▶ Video 1 Retrograde single-balloon enteroscopy for a symptomatic, unusual ileal polypoid lesion.

an endoclip 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

surgical or endoscopic management.

Endoscopy_UCTN_Code_CCL_1AC_2AH

diverticulum intussusception should be

considered and radiologically suspected.

Enteroscopy can quide the appropriate

Competing interests

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

The authors

Nicola Olivari¹, Sebastian Manuel Milluzzo^{1,2}, Denise Bianchi³, Cristiano Spada^{1,4}

- 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

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

- [1] Perne AS. Meckel diverticulum: Meckel's diverticulum; x-ray diagnosis. N Engl J Med 1959; 260: 690 – 696
- [2] Moore T, Johnston AOB. Complications of Meckel's diverticulum. Br J Surg 1976; 63: 453 – 454

- [3] Ito T, Sato K, Maekawa H et al. Adult intussusception caused by an inverted Meckel diverticulum. Case Rep Gastroenterol 2011; 5: 320 – 324
- [4] Zarand A, Bajtai A, Baranyai Z et al. Inflammation of ectopic pancreatic tissue in a Meckel's diverticulum causing acute abdominal symptoms: a case report and review of the literature. Int J Surg Pathol 2011; 19: 359 363

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