Small-bowel perforation caused by AdvanCE capsule endoscopy delivery device

We report herein the case of a 58-year-old-woman who was admitted for hematochezia with acute anemia (hemoglobin 9g/dL). She had a history of small-bowel adenocarcinoma (T3N0M0) complicating celiac disease; this had been treated by a Whipple procedure 12 years previously, with complete remission since then. She was taking anticoagulants following mitral valve replacement with a mechanical valve, with international normalized ratio (INR) of 2 at the time of admission. Computed tomography (CT) showed no intestinal abnormalities. Upper and lower endoscopies showed normal findings. Small-bowel video capsule endoscopy (VCE) was performed, using the AdvanCE capsule endoscope delivery device (ACEDD; US Endoscopy, Mentor, Ohio, USA) because of the patient’s intestinal loop anatomy. The procedure was carried out without any obvious complication. Of note, the upper endoscopy was done without anesthesia, and poor tolerance led to quick removal of the scope after capsule release. Several hours later, the patient complained of acute abdominal pain. CT showed a perforation close to the gastrojejunal anastomosis. Laparotomy revealed a small-bowel perforation 10 cm below the anastomosis with the capsule impacted in the mesentery. The VCE reading (Video 1) showed an immediate perforation induced by the ACEDD before release of the capsule; this was confirmed by the intraoperative findings (Video 1). The outcome was favorable after resection and anastomosis of the perforated area. The ACEDD was described as safe in a small case series of 16 patients in 2007 by Holden et al. [1]. To our knowledge this is the first case of perforation caused by this device.

Endoscopy_UCTN_Code_CPL_1AI_2AB

Competing interests: None

Marion Simon1, Sandrine Barge2, Florence Jeune3, Helene Corte3, Pierre Cattan3, Jean-Marc Gornet1
1 Department of Gastroenterology, St. Louis Hospital, AP-HP Paris, France
2 Department of Gastroenterology, Robert Ballanger Hospital, Aulnay-sous-Bois, France
3 Department of General, Endocrine and Digestive Surgery, St. Louis Hospital, AP-HP Paris, France

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DOI http://dx.doi.org/10.1055/s-0042-118164
Endoscopy 2016; 48: E342
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Corresponding author
Jean-Marc Gornet, MD
Service de Gastroentérologie
1 Avenue Claude Vellefaux
Hôpital Saint Louis
75010 Paris
France.
Fax: +33-1-42499168
jean-marc.gornet@aphp.fr