

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 hema- tochezia 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.

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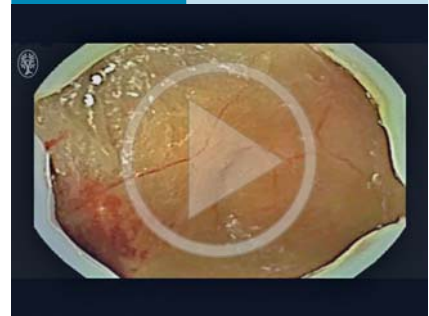
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Reference

- 1 Holden JP, Dureja P, Pfau PR et al. Endoscopic placement of the small-bowel video capsule by using a capsule endoscope delivery device. *Gastrointest Endosc* 2007; 65: 842–847

Video 1



Small-bowel perforation by the AdvanCE capsule endoscopy delivery device (ACEDD). The capsule endoscopy video shows an immediate perforation below the gastrojejunal anastomosis, caused by the rigid extremity of the ACEDD, with complete stalling of the capsule thereafter. Capsule impaction in the perforated area is confirmed intraoperatively.

Bibliography

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