

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 mit-
ral 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 with-
out 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 per-
foration close to the gastrojejunal anasto-
mosis. Laparotomy revealed a small-bowel
perforation 10 cm below the anastomosis
with the capsule impacted in the mesen-
tery. The VCE reading (▶ **Video 1**) showed
an immediate perforation induced by the

ACEDD before release of the capsule; this
was confirmed by the intraoperative find-
ings (▶ **Video 1**). The outcome was favor-
able 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

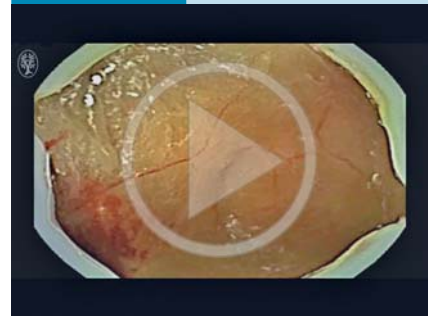
² Department of Gastroenterology,
Robert Ballanger Hospital, Aulnay-sous-
Bois, France

³ Department of General, Endocrine and
Digestive Surgery, St. Louis Hospital,
AP-HP Paris, France

Reference

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

Video 1



Small-bowel perforation by the AdvanCE cap-
sule endoscopy delivery device (ACEDD). The
capsule endoscopy video shows an immediate
perforation below the gastrojejunal anastomo-
sis, 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

DOI [http://dx.doi.org/
10.1055/s-0042-118164](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