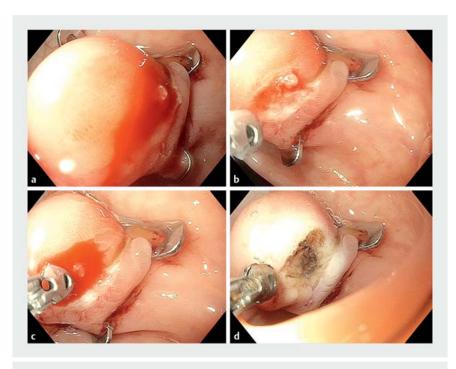
An over-the-scope clip placed for large colonic perforation can be complicated by delayed bleeding despite its known hemostatic mechanical effect

The efficacy and safety of the over-the-scope clip (OTSC) to manage acute gastrointestinal defects have been demonstrated for several years [1]. Data have shown a technical success rate of almost 100% [2], with very good safety [3]. The most common complication after the use of an OTSC for acute gastrointestinal defects is peritonitis, which occurs when leaks remain [4]. We present a case of delayed bleeding after the closure of an iatrogenic colonic perforation with an OTSC (> Video 1).

A 48-year-old woman underwent a colonoscopy to rule out a colorectal tumor in the context of paraneoplastic polymyositis with severe malnutrition and ongoing corticosteroid therapy over several days. The colonoscopy was complicated by a sigmoid perforation caused by the scope (>1cm). This iatrogenic perforation was managed as per procedure by placement of an OTSC, with technical success. No surgery was necessary in the aftermath. However, 6 days after the successful closure, the patient developed hematochezia and a fall in her hemoglobin was noted. At the time, she was receiving ongoing anticoagulation for a mechanical mitral valve. A second endoscopy confirmed that there was bleeding at the site of the OTSC (> Fig. 1 a). In fact, an enlarged pulsating vessel with active nonpulsating bleeding could be seen in the middle of the clip teeth (> Fig. 1 b, c). Hemostasis was achieved with hot biopsy forceps coagulation (▶ Fig. 1 d).

This case highlights an unusual outcome of an OTSC that has not been well described in safety studies [4]. Furthermore, it is important to be aware of this surprising cause of bleeding, even though OTSCs are well known for their use in controlling bleeding.

In conclusion, bleeding can be a complication of an OTSC and it can present in a delayed manner. Despite the hemostatic



▶ Fig. 1 Endoscopic images of delayed bleeding complicating the placement of an over-the-scope clip (OTSC) for colonic perforation showing: **a** bleeding from the center of the mucosa that had been trapped into the OTSC; **b** a vessel drawn into the OTSC teeth; **c** active bleeding after contact with the forceps; **d** the appearance after hot biopsy forceps coagulation.





▶ Video 1 An over-the-scope clip (OTSC) placed for a large colonic perforation was complicated by delayed bleeding despite its known hemostatic mechanical effect.

features of OTSCs, it is important to do a second-look endoscopy to re-examine the OTSC site in patients who present with delayed bleeding.

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Competing interests

None

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