Over-the-scope clip used to treat duodenal ulcer can cause damage to ulcer base and massive bleeding

The efficacy of the over-the-scope clip (OTSC; Ovesco, Tübingen, Germany) to achieve primary hemostasis and prevent rebleeding has been demonstrated in the treatment of gastroduodenal ulcers [1]. Recent data have shown technical success and hemostasis rates of almost 100% [1–3]. We present the case of technical failure of an OTSC used for a rebleeding duodenal ulcer, leading to massive bleeding when the clip was released (▶ Video 1).

A 61-year-old man was admitted for hematemesis, anemia, and hypotension. A Forrest IIb ulcer located on the posterior wall of the duodenal bulb was treated by adrenaline and hot biopsy coagulation. He was readmitted a week later for a severe recurrence with hemorrhagic shock. Second gastroscopy confirmed rebleeding from the initial duodenal ulcer graded Forrest IIa, and hemostasis was achieved with hot biopsy forceps coagulation (▶ Fig. 1a, b). We decided to prevent a new recurrence by applying an OTSC. Unfortunately, release of the OTSC damaged the ulcer base leading to a large defect on the arterial branch and resulting in acute hemorrhagic shock (▶ Fig. 1c, d, ▶ Fig. 2a). Endoscopic hemostasis appeared impossible and we transferred the patient as an emergency to the radiology unit.

A computed tomography (CT) scan confirmed a large arterial blush of 8 mm in diameter (▶ Fig. 2b, c). Arterial embolization of the gastroduodenal and pancreaticoduodenal arterial ramifications was performed successfully (▶ Fig. 2d). Five days later, the patient suffered from melena with hemodynamic instability. CT scan concluded rebleeding from the gastroduodenal artery that had undergone embolization. Fortunately, a successful surgical treatment was finally performed, which controlled the bleeding.
This case highlights the fact that OTSCs may sometimes dramatically worsen bleeding by ripping out the base of an ulcer and the bleeding vessel. Release of the OTSC may be more challenging in posterior wall and fibrous duodenal ulcers, as previously published [2]. Rescue OTSC placement should be performed in units equipped with interventional radiologists with experience in embolization for cases of massive bleeding.

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Competing interests

None

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