Successful repair of wide traumatic rectal perforation using over-the-scope clip

Introduction
The over-the-scope clip (OTSC) (Ovesco Endoscopy GmbH, Tübingen, Germany), designed for tissue approximation, is already recommended as first-line endoscopic treatment for endoscopic acute iatrogenic perforation [1]. To the best of our knowledge, no data regarding gastrointestinal traumatic, not iatrogenic, perforation repaired with the use of OTSC, are available.

Case report
A 16-year-old girl was referred to the emergency room for copious rectal bleeding and secondary syncope, due to violent trauma. Computed tomography (CT) scan and subsequent colonoscopy revealed a voluminous pelvic hematoma and a 35–40-mm irregular full-thickness defect, located in the posterior rectal wall, about 30 mm from the dentate line (Fig. 1).

Because of the lesion’s features and the acute setting, an OTSC was placed (12/6 mm, traumatic type) using the OTSC twin grasper (Ovesco Endoscopy GmbH, Tübingen, Germany) (Fig. 2). This auxiliary device has two jaws which can be opened separately, allowing better gaping edges approximation.

The entire procedure was performed under deep sedation, using CO₂ insufflation Video 1.

The endoscopic treatment was effective, as confirmed after contrast medium injection and CT scan.

A Few days later, second endoscopic look confirmed complete sealing of the defect and the patient was discharged home (Fig. 3).
Conclusion

In conclusion, OTSC with a twin grasper can successfully treat wide traumatic rectal perforation, avoiding major surgery with definitive or temporary stoma, especially in a young patient.

Competing interests

The authors declare that they have no conflict of interest.

Reference