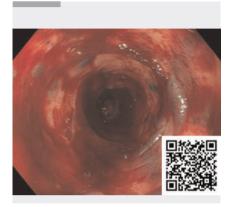
A heart-stopping procedure: severe esophageal injury arising from difficulty in withdrawal of a motorized spiral enteroscope





□ Video 1 Second look at esophagus using a gastroscope, after challenging extraction of motorized spiral enteroscope in an 83-year-old man.

We present the case of an 83-year-old man, with a history of heart disease and duodenal ulcer, who was admitted for syncope and a 5-day history of melena and anemia.

After several radiologic and endoscopic explorations (gastroscopy, two capsule endoscopies, and a double-balloon enteroscopy), the second capsule endoscopy showed a submucosal lesion in the mid-ileum, so, as a last resort, the team decided to perform motorized spiral enteroscopy (MSE).

The enteroscopy was done under general anesthesia. A Dieulafoy lesion with active bleeding was observed in the mid-ileum, and was treated with argon plasma coagulation. A submucosal lesion that was not treated was also seen.

At the end of the procedure, we were confronted by an unexpected problem: the scope could not be withdrawn, neither forward nor backward movement being possible. After 20 minutes

and following different interventions by different endoscopists, it was decided to hyperextend the patient's neck and deflate the balloon from the orotracheal tube, permitting the appropriate withdrawal of the scope.

A gastroscope was used to inspect the resulting damage. Numerous hematomas and mucosal tearing throughout the esophagus could be seen, but no perforation was observed (**Video 1**).

The patient was conscious when he left the room. After a 48-hour fast, an esophagogram was taken, and no perforation was seen. A progressive diet was started, the patient presented mild dysphagia, and was discharged from the hospital.

Reviewing the literature, no recent international papers have described complications similar to our case, though some have described mild esophageal lesions [1].

In a meta-analysis published in September 2022 that included 9 studies with 959 patients, adverse events were seen in 17%, with only 1% considered to be serious (3 perforations, 2 pancreatitis, 6 hemorrhages) [2]. There were no deaths and, of course, no report of the complication described above.

In another systematic review and metaanalysis published in June 2023 that included 10 studies and 961 patients, adverse events were seen in 18.1%. These included 6 difficult withdrawals, all considered to be minor events, and 20 instances of esophageal abrasions (deep and superficial), also considered to be minor events [3].

In July 2023, the manufacturers of the motorized spiral enteroscope recalled it from the market because of an unsuc-

cessful withdrawal of the instrument that had required surgical intervention to remove it from the patient.

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Conflict of Interest

The authors declare that they have no conflict of interest.

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