

**Title:**

**GASTRIC BAROTRAUMA INDUCED BY THE SELICK-MANEUVER PERFORMED TO ENABLE  
ENDOSCOPIC SUBMUCOSAL DISSECTION**

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## **Gastric barotrauma induced by the Sellick maneuver performed to enable endoscopic submucosal dissection**

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A 55-year-old male underwent endoscopic submucosal dissection (ESD), under general anesthesia and orotracheal intubation, of a 22 mm Paris 0-IIa+0-IIb lesion located in the greater curvature of the medium/distal antrum (Fig. 1A). It was not possible to start the procedure after several attempts due to permanent belching and inability to maintain adequate gastric distension. ESD was only feasible after performing the Sellick maneuver (manual pressure application at the cricoid cartilage to occlude the upper esophagus), which allowed sustained gastric distension throughout the procedure (60 minutes).

Finally, a very large, oozing mucosal laceration was detected extending from the lesser curvature of the body to the cardia, consistent with gastric barotrauma (Fig. 1B). Hemostasis was achieved using forceps coagulation and the laceration was completely closed with through-the-scope clips (Fig. 1C). The post-procedure course was

uneventful and histopathologic assessment revealed low-grade dysplasia, R0 resection.

The Sellick maneuver, described to avoid tracheobronchial aspiration during orotracheal intubation, was adapted to prevent gastric deflation during esophagogastroduodenoscopy. A prolonged Sellick maneuver in this patient induced gastric barotrauma, a rare phenomenon related to increased gastric wall pressure. We report a potentially severe complication of this maneuver, which raises awareness of the need to avoid prolonged uncontrolled gastric overinflation during endoscopic procedures.

*Conflicts of interest: the authors declare none.*

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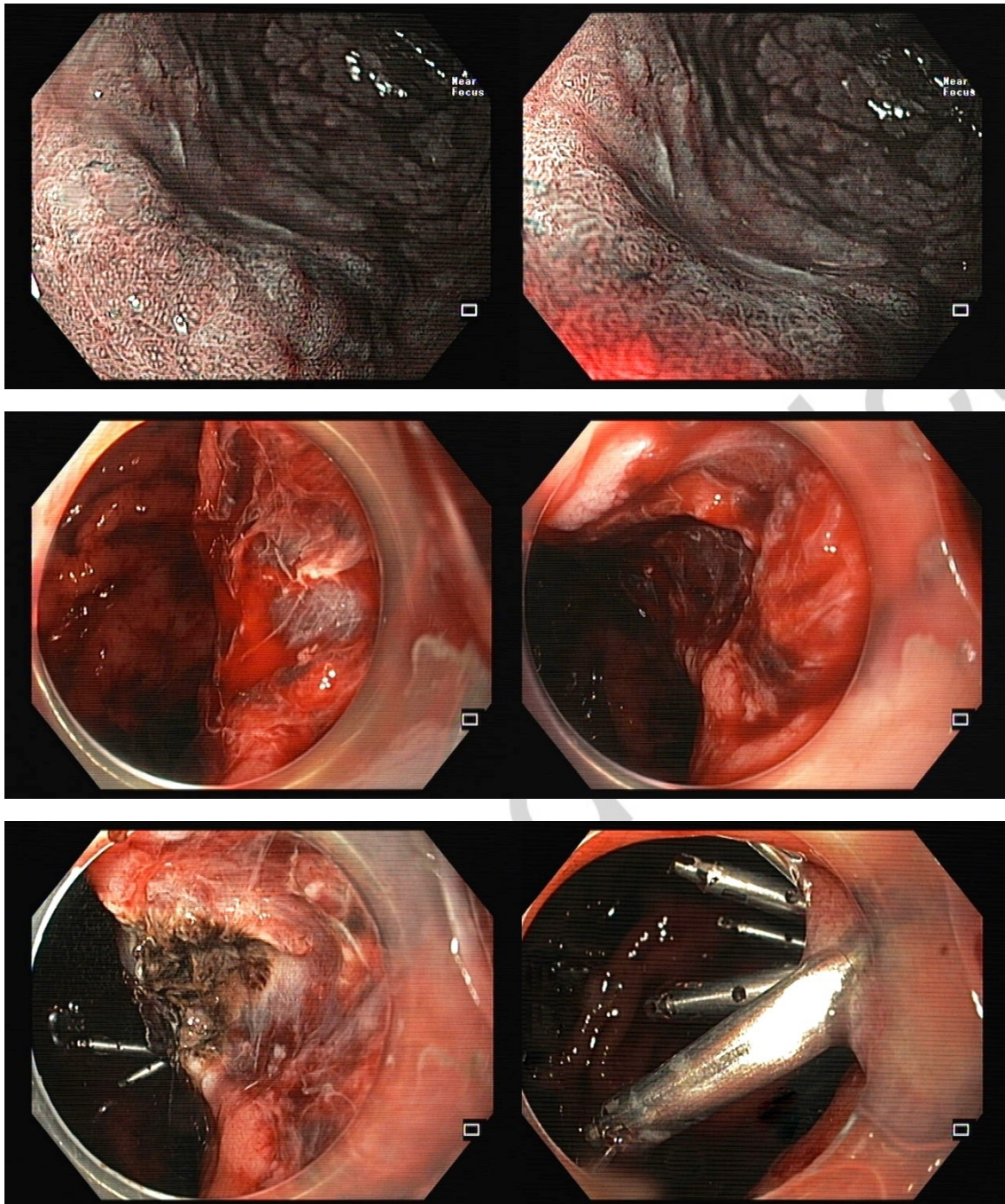


Fig. 1. A. Paris 0-IIa + 0-IIb lesion in the greater curvature of the gastric antrum. B. Gastric mucosal laceration extending from the lesser curvature of the body to the cardia. C. Gastric laceration completely closed with through-the-scope clips.