Endoscopic submucosal dissection (ESD) is a useful alternative to surgery for the treatment of selected cases of early gastric cancer (EGC) [1–3]. The two main complications associated with ESD are perforation and bleeding.

A 66-year-old woman with EGC was admitted to our hospital for ESD. The EGC (adenocarcinoma) lesion was type IIc, was 15 mm in diameter, and was located in the cardia. No lymph node metastasis was seen with stomach computed tomography. ESD was performed using an Olympus XQ-240 video endoscope with an insulated-tip knife (Figure 1). Immediately following ESD, the patient complained of dyspnea and abdominal pain with distension. A chest radiograph revealed pneumoperitoneum and left pneumothorax (Figure 2). The rate of perforation and immediate bleeding in the cardia and the upper portion of the gastric body during endoscopic resection is higher than in the lower third of the stomach [3,4]. Gastric perforations after ESD have predominantly been successfully treated with endoscopic clipping, intubation of the nasogastric tube, and administration of antibiotics without surgery [1, 5]. Although most post-ESD perforations can be conservatively treated, endoscopists must keep in mind that pneumothorax can develop during ESD in the cardia, and that a careful procedure is essential.

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