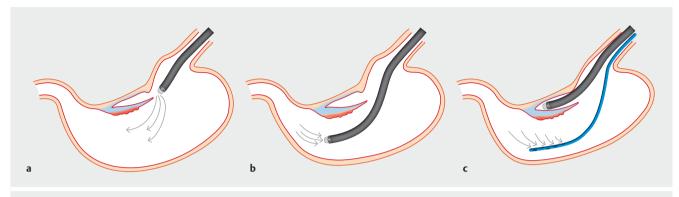
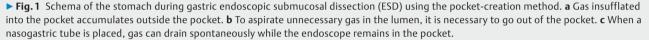
E-Videos

Nasogastric-tube decompression facilitates the pocket-creation method of gastric endoscopic submucosal dissection.





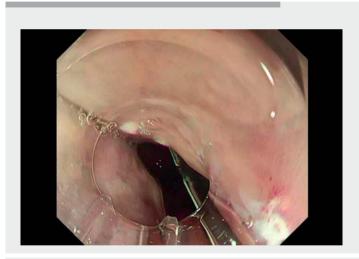


The pocket-creation method (PCM) [1] was developed as an effective strategy for endoscopic submucosal dissection (ESD), and its usefulness in gastric ESD has been reported [2].

Aspirating gas from the stomach and collapsing the lumen facilitates the PCM because it helps to keep the submucosa thick and improves the controllability of the endoscope (> Fig. 1) [3]. However, it is not efficient to aspirate gas while placing the electric knife in the accessory channel. It is also time-consuming to remove the device just to aspirate gas.

We devised a method of gastric ESD using a nasogastric tube (► Video 1). A 14-Fr nasogastric tube was inserted through the nasal cavity and fixed at 65 cm (► Fig. 2). ESD with the PCM was then performed in the usual manner. During ESD, unnecessary gas and fluid drained through the tube without being aspirated through the endoscope (► Fig. 3). In addition, when bleeding occurred during the ESD, the blood also drained through the tube and no clots accumulated in the stomach. The tube placement did not cause any deterioration in endoscope controllability.

This method has other advantages. Keeping the stomach at low pressure by removing gas seems to be less stressful for





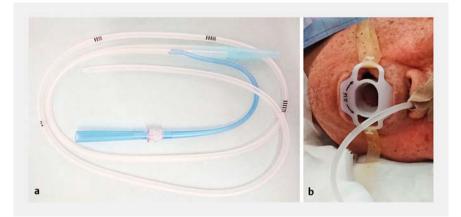
Video 1 The pocket-creation method of gastric endoscopic submucosal dissection using a nasogastric tube.

patients, which may allow sedation to be more effective. In addition, maintaining the stomach at low pressure may prevent Mallory–Weiss syndrome and vagal reflexes associated with hyperextension of the gastric wall. Even if an intraprocedural perforation occurs, leakage of air into the abdominal cavity can be minimized. In situations when the stomach is too collapsed to continue ESD, this can be solved by just clamping the tube with Pean forceps. In conclusion, the nasogastric tube decompression technique facilitates gastric ESD using the PCM.

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Competing interests

The authors declare that they have no conflict of interest.



▶ Fig. 2 External pictures of the tube. **a** A 14-Fr nasogastric tube (Salem Sump; Cardinal Health, Dublin, Ohio, USA). **b** The nasogastric tube is inserted into the stomach and fixed at 65 cm.

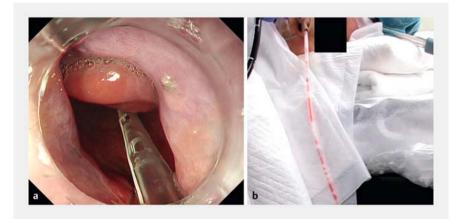


Fig.3 The nasogastric tube during ESD. **a** Endoscopic view of the nasogastric tube placed in the stomach. **b** Gas and fluid drain through the nasogastric tube.

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