Tarry Stool Occurred after Replacement of Percutaneous Endoscopic Gastrostomy Tube

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Question: A 77-year-old man came to the emergency room because he defecated tarry stool. His hemoglobin decreased by 4.5 g/dL compared to the previous test. Blood pressure was 90/60 mmHg, and pulse rate was 110 per minute. The patient had right hemiplegia with a stroke 18 months ago and was taking clopidogrel.
Percutaneous endoscopic gastrostomy (PEG) tube was replaced 2 months ago. Emergency endoscopy revealed a reddish blood clot near the tip of the balloon type tube (Fig. 1A). Second-look endoscopy revealed a clear, ovoid active-staged ulcer at the posterior wall of the gastric antrum (Fig. 1B, C). What other measures should be taken besides anti-ulcer drugs?

**Answer:** PEG insertion had been performed at the anterior wall of the gastric antrum, actually in other institute. When the stomach lumen was deflated during endoscopy, as shown in Fig. 1D, the solid tip of the balloon type tube was in contact with the antral ulcer base. In other words, it suggested that the rigid tip of the tube induced an ulcer via applying constant pressure to the opposite gastric wall. In order to prevent recurrence of bleeding, it was necessary to insert a new tube into the gastric body, or to replace it with a bell-type tube with a non-rigid tip. No recurrent bleeding episode have been reported over one year since the replacement with a bell-type tube.

PEG feeding is a good choice for maintaining nutritional intake in patients with swallowing difficulty due to neurological deficit. Endoscopists should be familiar with the complications of PEG and their preventive measures.1,2 The recommended site for insertion of the PEG tube is the anterior wall of the body, usually at the lower body. Even if the puncture site is determined, it should be confirmed by trans-illumination that it does not interfere with the transverse colon that can run on the anterior wall of the body.3 Occasionally, a novice may puncture on the antrum when inserting a PEG tube. Antrum is a rigid muscular part, and it has to play a role in pumping the digested food into the small intestine. If puncture is performed here, the antral pumping action can be disturbed. Besides, the risk of the pressure ulcer is higher because the lumen is much narrower than the gastric body. It should be noted that endoscopists should avoid puncturing the antrum during PEG tube insertion.

**REFERENCES**