Transnasal gastrointestinal fibroscopy using a small-caliber fiberscope (N-GIF) has been established as a safe procedure because it can prevent undesired pharyngeal reflux [1, 2]. However, the risks and complications related to N-GIF remain unclear [1–5].

A 38-year-old man complaining of epigastralgia with a small amount of hematemesis was admitted to a private clinic and underwent emergency N-GIF (Olympus GIF-XP150N; Olympus, Tokyo, Japan), which revealed mild hemorrhagic esophagitis. During N-GIF he did not feel severe discomfort, and suffered only slight pharyngeal reflux. He had a small amount of hematemesis, dyspnea and tachycardia 20 hours after N-GIF, and hyperglycemia, disorientation, hypotension, and anuria 2 days later. CT revealed an abnormality in the left piriform sinus and mediastinal emphysema (Figs. 1, 2).

He was transferred to our center and underwent emergency conventional oral gastrointestinal endoscopy (GIF), which revealed pooling of bloody pus around the left piriform sinus with local redness and edema (Fig. 3). During the emergency operation, we found purulent inflammation around the cervical esophagus but could not find the perforation site. We diagnosed a minor perforation of the left piriform sinus and performed simple drainage. GIF performed on the 6th postoperative day revealed no ulcer (Fig. 3).

Most of the reported complications due to N-GIF involve nasal bleeding [5]. There has been no report of pharyngoesophageal injury. However, because of the flexibility of the fiber, the endoscopist may not feel any resistance even when the fiber becomes wedged in the piriform sinus, and may continue to push the fiber without any resistance. Although in most cases the tip of the fiber can slip into the esophagus without any injury, it can cause a mucosal injury during such a slip. In our patient, it is thought that a nontransmural piriform injury that occurred during N-GIF became transmural due to his clearing his throat or straining himself after N-GIF.
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