A 56-year-old man with schizophrenia presented with acute hematemesis. He had been taking nonsteroidal anti-inflammatory drugs frequently for headache. Emergency panendoscopy revealed a huge gastric ulcer on the posterior wall, high in the body of the stomach. The ulcer had a large visible vessel in its base. The vessel was coated with red clot but there was active oozing under the clot (Figure 1).

Considering the firm ulcer base and the large vessel, a clipping device was used to place two endoclips on both ends of the vessel. This did not stop the oozing, however. Despite various measures, including injection of saline and epinephrine, and repeated thermoagulation with heater probe, bipolar hot biopsy forceps, and argon plasma coagulation, the oozing could not be stopped. Band ligation was not considered for the firm ulcer base. Eventually the bleeding was stopped by injection of 4 mL of a mixture of equal amounts of N-butyl-2-cyanoacrylate (Histoacryl; B. Braun, Melsungen, Germany) and Lipiodol (Laboratoire Guerbet, Aulnay-Sous-Bois, France). Although immediate hemostasis was achieved, massive hematemesis occurred 2 days later. The patient underwent surgery, when a giant penetrating ulcer extending to the liver bed was found. Moreover, an incidental finding of portal vein embolization was made when a computed tomographic scan was performed for the investigation of postoperative fever (Figure 2).

Numerous trials have demonstrated the benefit of endoscopic intervention compared with medical management alone for acute nonvariceal upper gastrointestinal hemorrhage [1]. Endoscopic treatment modalities can be categorized into three groups: injection, thermal, and mechanical [2]. What is the cost of hemostasis using these treatments, however? Can they damage adjacent organs? Histoacryl injection for the treatment of varices is well established, despite its complications [3, 4], and it is used as a last resort before surgery in ulcer bleeding [5]. Vascular complications have rarely been reported. This case highlights the possibility of unnecessary iatrogenic embolization of an adjacent organ while treating a huge and deep ulcer.

References

Bibliography
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Corresponding author
C.-S. Fan, MD
Department of Gastroenterology
Changhua Christian Medical Center
135 Nanhsiao Street
Changhua 500
Taiwan
Fax: +886-4-7228289
60909@cch.org.tw