Endoscopic injection sclerotherapy (EIS) is a major therapeutic modality for the treatment of patients with bleeding from ruptured esophageal varices [1]. In addition, it has been demonstrated that prophylactic sclerotherapy in cirrhotic patients with known varices can reduce the rate of subsequent bleeding and improve survival [2]. The complications of endoscopic sclerotherapy include, for example, esophageal ulceration and esophageal perforation [3]. However, few reports have focused on the development of gastric ulcers following sclerotherapy [4].

A 45-year-old man was admitted to our hospital with liver cirrhosis due to hepatitis virus B and esophageal varices. His varices were classified as LlF,CbRC(+),Lg-cf(+) according to the general rules for study of portal hypertension [5]. About 5 months prior to admission, he had undergone three uneventful sessions of sclerotherapy for risk-associated esophageal varices. At 3 days after admission, he underwent EIS; a total of 10 ml of 5% ethanolamine oleate was injected into several large varices at different sites under radiographic guidance (Figure 1). The patient had a moderate degree of upper epigastric discomfort following the procedure. The abdominal pain increased and the patient vomited blood on the morning after the procedure. A subsequent endoscopy examination revealed a large gastric ulcer in the lesser curvature of the gastric body (Figure 2). A computed tomography examination also showed a low-density area in the lesser curvature of the gastric body. The giant gastric ulcer, which responded to conservative therapy, appeared to be healing at 1 month after the sclerotherapy.

In view of its location, the giant gastric ulcer may have formed because of ischemia as a result of arterial obstruction by the sclerosant. Only one previous report has focused on the formation of gastric ulcers following sclerotherapy. Asano et al. [4] reported that a gastric arterial branch was detected in a portion of an ulcer by means of varicealography; however we did not observe any gastric arterial branches in the present case. Giant gastric ulcer is a very rare but serious complication of sclerotherapy.

Figure 1 Endoscopic varicealography performed during endoscopic injection sclerotherapy (EIS) shows the left gastric vein through the fundic plexus; however the left gastric artery branch is not visible.

Figure 2 Endoscopic image showing a giant gastric ulcer on the lesser curvature of the gastric body, 1 day after the EIS.

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References

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