Endoscopic sclerotherapy under balloon-assisted enteroscopy for hemorrhagic jejunal varices after choledocho-jejunostomy

Hemorrhage from varices in the jejunal loop after reconstruction of the biliary tract is quite rare. Portal hypertension due to extrahepatic portal vein stenosis or obstruction at the site of a previously performed choledocho-jejunostomy results in the formation of hepatoporal collaterals through the anastomosis, thus creating varices in the afferent loop that can rupture and hemorrhage [1, 2]. We present endoscopic sclerotherapy under balloon-assisted enteroscopy for hemorrhagic jejunal varices after choledocho-jejunostomy (▶ Video 1).

A 67-year-old man was admitted to our hospital with recurrent massive gastrointestinal bleeding (GIB). He had undergone choledocho-jejunostomy (Roux-en-Y) for pancreaticobiliary maljunction 14 years earlier, and 12 years later, he had the first episode of GIB. At another hospital, it was revealed that the cause of hemorrhage was jejunal varices at the site of the choledocho-jejunostomy anastomosis, which appeared to have developed due to an extrahepatic portal vein obstruction.

A transileocolic vein obliteration utilizing a catheter and coils was carried out and resulted in successful hemostasis. On the arrival at our hospital, recurrent jejunal varices were revealed by enhanced computed tomography (▶ Fig. 1). Balloon-assisted enteroscopy using a single-balloon endoscope (SIF-Q260; Olympus, Tokyo, Japan) was carried out. It showed the coils, which were exposed (▶ Fig. 2a) near to the site of the choledocho-jejunostomy anastomosis (▶ Fig. 2b). Jejunal varices with a fibrin plug were also revealed (▶ Fig. 2c). We performed endoscopic injection sclerotherapy (EIS) using a mixture of 1.5 mL N-butyl-2-cyanoacrylate and 0.5 mL lipiodol at the jejunal varices (▶ Fig. 2d). After EIS, the injectate could be seen occupying the jejunal varices (▶ Fig. 3). There were no adverse events concerning the EIS treatment. From then on, no GIB episodes were encountered. We conclude that EIS using balloon-assisted enteroscopy can be an effective, easy, and safe treatment selection for hemorrhagic jejunal varices.

Competing interests
None

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Video 1 Endoscopic sclerotherapy under balloon-assisted enteroscopy for hemorrhagic jejunal varices after choledocho-jejunostomy.

Fig. 1 Enhanced computed tomography showing jejunal varices (arrow).
References


Bibliography
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Fig. 2 Endoscopic images. a The coils, which were exposed near to the site of the choledocho-jejunostomy anastomosis. b Choledocho-jejunostomy anastomosis. c Jejunal varices with a fibrin plug (arrow). d Endoscopic injection sclerotherapy for jejunal varices.

Fig. 3 After endoscopic injection sclerotherapy, the injectate was seen occupying the jejunal varices (arrow).