Endoscopic sclerotherapy with a high concentration of n-butyl-2-cyanoacrylate for anastomotic varices after choledochojejunostomy

Anastomotic varices are an uncommon cause of variceal bleeding. After choledochojejunostomy, the anastomosed afferent jejunal loop may have a propensity to form varices, with hepatopetal flow [1, 2]. Endoscopic sclerotherapy has the potential to cause intrahepatic obstruction of the portal vein [3–5]. This report describes endoscopic sclerotherapy with a high concentration of n-butyl-2-cyanoacrylate for anastomotic varices after choledochojejunostomy.

An 82-year-old woman presented with intermittent melena. She had undergone pancreaticoduodenectomy for carcinoma of the papilla of Vater 6 years previously. Computed tomography showed portal vein thrombosis with cavernous transformation, leading to the formation of varices around the choledochojejunostomy site (Fig. 1).

Endoscopy with an upper gastrointestinal endoscope (GIF-H290; Olympus, Tokyo, Japan) was undertaken to assess the varices. A small amount of fresh blood was seen in the afferent jejunal loop, and varices were observed around the choledochojejunostomy site (Fig. 2). We opted to perform endoscopic sclerotherapy with a high concentration of n-butyl-2-cyanoacrylate. A total of 1.2 mL of glue mixture (1.0 mL of n-butyl-2-cyanoacrylate and 0.2 mL of Lipiodol) was injected with a 23-gauge needle under fluoroscopic guidance (Fig. 3). The sclerosant filled the varices and did not leak into the liver. A computed tomographic scan showed the deposition of Lipiodol in the anastomotic varices without any deposition in the liver parenchyma (Fig. 4). The bleeding ceased without any complication, and no further bleeding was observed.

Unlike gastric varices, anastomotic varices after choledochojejunostomy drain directly into the intrahepatic portal vein within a short distance. Therefore, the rapid polymerization of the usual concentration of n-butyl-2-cyanoacrylate (ratio...
of n-butyl-2-cyanoacrylate to Lipiodol of 1:1 or 1:1.6) is considered to create a risk for intrahepatic obstruction of the portal vein. To our knowledge, this is the first report of the use of a high concentration of n-butyl-2-cyanoacrylate for endoscopic sclerotherapy in a patient with anastomotic varices after choledochojunostomy.

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Competing interests: None

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References


Bibliography

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