A 17-year-old girl known to have portal vein cavernoma presented at our institute with massive upper gastrointestinal bleeding, which was causing hypovolemic shock. The girl required multiple blood transfusions and maximal medical support.

Esophagogastroduodenoscopy showed that the source of the bleeding was a varix in the duodenal wall (Fig. 1a). The spurtting bleed was initially treated with Glubran 2 surgical glue (GEM Srl, Udine, Italy), and although the bleed was reduced, it did not stop (Fig. 1b). Because of the critical condition of the patient, we decided to inflate a controlled radial expansion balloon (Boston Scientific, Cork, Ireland) to 18mm in the duodenal bulb to temporarily stop the bleeding and bridge the patient until radiologic treatment could be provided (Fig. 1c).

The decision was made to proceed with emergency transjugular intrahepatic portosystemic shunt (TIPS) placement. The site of the bleed was managed endoscopically during the radiological procedure. A Colapinto needle (Ring Transjugular Intrahepatic Access Set; Cook, Bloomington, Indiana, USA) was advanced into the portal vein (Fig. 2a). Injection of contrast medium showed tracking along the portal vein remnant with stasis due to the absence of communication between the remnant and the splenomesenteric confluence (Fig. 2b). A hydrophilic wire was successfully introduced through the remnant into the splenomesenteric confluence (Fig. 2c). Two stents were deployed in series (10mm polytetrafluoroethylene-covered stents, Viatorr; W.L. Gore, Flagstaff, Arizona, USA) (Fig. 2d).

As a result, the portosystemic gradient was reduced from 20mmHg to 8mmHg. No signs of recurrence were observed in 2 years of endoscopic and radiologic follow-up, during which the patient was in good general condition, and the stents appeared patent on Doppler ultrasound.

The deployment of TIPS in the portal vein remnant may be technically preferable to deployment in the collateral vessels of the cavernoma. This method provides direct communication between the intrahepatic portal radicals and the splenomesenteric confluence, thus creating an effective portosystemic shunt [1 – 5].

This case highlights how success was achieved by combining the two techniques: the patient was initially stabilized with endoscopic hemostasis, followed by final treatment with radiology.
Competing interests: None

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