Massive hemobilia from a ruptured hepatic artery aneurysm (HAA) is a serious complication and difficult to treat. The majority of cases are the result of accidental or iatrogenic trauma. Other causes are inflammatory, tumor bleeding, vascular disorders, and cholecystolithiasis [1–3]. Treatment of a specific aneurysm depends on its location and the regional vascular anatomy. Therapeutic options include embolization of the aneurysm, stenting across the parent vessel, and embolization of the common hepatic artery or open surgical repair, with or without reconstruction [4,5]. We reported a case of ruptured HAA with massive hemobilia that was first diagnosed by endoscopic ultrasonography (EUS) and treated successfully by percutaneous ultrasound-guided glue injection directly into the HAA.

A 55-year-old man presented with abdominal pain and jaundice without history of previous abdominal surgery or trauma. Magnetic resonance imaging (MRI) showed a soft tissue mass within a large cystic lesion at the pancreatic head (Fig. 1). The patient underwent endoscopic retrograde cholangiopancreatography (ERCP) with plastic stent placement and was referred to our institution for endoscopic ultrasound (EUS) evaluation. On EUS, echoultrasonography with color Doppler revealed a large cystic lesion with detectable to-and-fro color flow, arising from the common hepatic artery (Fig. 2, Video 1).

A large HAA, which was protruding through the arterial wall, was diagnosed and therefore open surgical management was the first treatment consideration. After 1 week the patient developed massive upper gastrointestinal bleeding. Emergency angiography with embolization was carried out but failed to completely stop the bleeding (Fig. 3).

**Video 1**
Radial echoendosonography with color Doppler demonstrating a large, irregular, cystic mass with to-and-fro flow from the main hepatic artery.
A percutaneous injection of Histoacryl was given directly into the aneurysm (Fig. 4).

In the 1-month follow-up period, the patient’s liver function normalized and the plastic stent was endoscopically removed. At the 2-year follow-up he remained in a good condition with no signs of recurrent bleeding or liver infarction.

Competing interests: None

References

Bibliography
Endoscopy 2010; 42: E340–E341
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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