Azygoesophageal fistula: a rare cause of upper gastrointestinal tract bleeding

A 73-year-old man, who had a history of thoracic aorta aneurysm and aortic valve replacement operations 25 years ago and anemia diagnosed 4 years previously who was currently taking warfarin, propranolol, and iron preparations, presented to the emergency department with melena and hematemesis. His blood pressure was 90/60 mmHg and his heart rate was 108 beats per minute. Investigations showed he had hemoglobin (Hb) of 9 g/dL and an international normalized ratio (INR) of 2.3.

He underwent an upper gastrointestinal endoscopy, which revealed a lesion protruding to the lumen that was 8–10 mm in size and magenta-colored, consistent with a vascular structure 7–8 cm proximal to the cardioesophageal junction (Fig. 1a, b). The procedure was terminated without an endoscopic therapeutic intervention and the patient was admitted to the intensive care unit.

He underwent a computed tomography angiogram (CTA) 7 hours later in the interventional radiology unit, which showed postoperative changes in the ascending aorta, prominent azygos and hemiazygos veins, widespread intra-abdominal retroperitoneal venous collaterals, and web formation at the location of the opening of the inferior vena cava to the right atrium (Fig. 2). Percutaneous thoracic angiography (PTA) showed a marked degree of stenosis between the vena cava and the right atrium. This was treated by balloon dilation using angioplasty balloons with diameters of 10–25 mm during the same session, with improvement in the appearance of the stenotic segment and in the pressure gradient (Fig. 3). No problems were encountered during the follow-up period and the patient remains under ongoing follow-up in our outpatient clinic.

Azygoesophageal fistula is a rare cause of upper gastrointestinal tract bleeding. Shieh et al. reported a case in which bleeding from an azygoesophageal fistula was defined and safely occluded by sclerotherapy with Lipiodol [1]. Our report shows that endovascular treatment is a safe and effective treatment option for azygoesophageal fistulas.

**Competing interests:** None
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Fig. 3 Images taken during percutaneous thoracic angiography (PTA) showing: a marked degree of stenosis related to the web seen at the atriocaval junction during imaging of the inferior vena cava; b reflux of contrast into the hemiazygos–azygos venous system during the late phase and varicosity in the azygos vein; c dilation of the atriocaval web being performed with an angioplasty balloon; d improvement in the stenotic segment following the PTA procedure.