A 22-year old man with posttraumatic pancreatitis had a 6-cm pseudocyst in the head and body of the pancreas and pancreatic ascites. When he presented with abdominal pain, endoscopic ultrasound (EUS)-guided transmural drainage of the pancreatic pseudocyst was performed, and a 7-Fr, 5-cm double-pigtail plastic stent was placed in the cavity. During EUS, the gastroduodenal artery (GDA) was seen coursing through the cavity of the pancreatic pseudocyst (Fig. 1), but neither EUS nor contrast-enhanced computed tomography identified a pseudoaneurysm. Endoscopic retrograde pancreatography (ERP) revealed complete disruption of the pancreatic duct. After a marked improvement in the patient’s symptoms, he was discharged.

However, 4 weeks later, the patient presented with hematemesis associated with abdominal pain, melena, postural symptoms, tachycardia, and hypotension. Investigations revealed a hemoglobin level of 7.6 g/dL. He was resuscitated and given 3 units of blood. Urgent gastroscopy showed blood oozing through and adjacent to the transmural stent. Computed tomographic angiography of the abdominal vessels did not reveal any vascular abnormality, but the GDA was seen closely abutting the transmural stent (Fig. 2). The pseudocyst had resolved (Fig. 3), but ascites was present.

In view of the ongoing bleed, digital subtraction angiography (DSA) was done and showed luminal irregularity and attenuation of the segment of the GDA that was abutting the stent (Fig. 4). The GDA was embolized with coils (Fig. 5), after which the bleeding stopped. Because the patient still had ascites and a disrupted pancreatic duct, the transmural stent was replaced with a shorter 7-Fr, 3-cm stent.
Following this, the ascites resolved, and the bleeding did not recur over a follow-up period of 6 months.

GDA pseudoaneurysms are commonly caused by pancreatitis, vascular interventions, trauma, or surgery [1]. They result from a breach in the vessel wall caused by trauma, enzymatic digestion, surgery, or needles used during intervention [1]. Plastic stents have been rarely reported to cause visceral artery aneurysms by constantly irritating and breaching the vessel wall [2]. In our patient, a combination of enzymatic digestion and the presence of a transmural stent possibly led to a breach in the GDA wall because the tip of the stent was found closely abutting the abnormal segment of the GDA.

Competing interests: None

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