A 67-year-old man with a pancreatic head lesion was referred for endoscopic ultrasound-guided fine-needle aspiration (EUS-FNA) diagnosis and staging. EUS revealed a 35-mm, hypoechoic, irregular lesion of the pancreatic head. The lesion had no cleavage plane with the portal vein, and it had clearly invaded the bile duct and duodenal wall. The gastroduodenal artery was interfering with the EUS-FNA, so it was necessary to puncture the marginal area of the lesion adjoining the bile duct (Fig. 1a).

After five inadequate specimens had been obtained with a 22-gauge needle for rapid on-site evaluation, a sixth pass immediately yielded evidence of blood spurting into the bile duct and spreading into the cystic duct up to the gallbladder (Fig. 1b–d). We tried to exert pressure by deflecting the tip of the echo-endoscope and also to tamponade the bleeding with balloon inflation, but without success. We then performed endoscopic retrograde cholangiopancreatography (Fig. 2) to remove a large amount of clot from the bile duct, after which we saw evidence of continuous hemobilia (Fig. 3a). We decided to place a fully covered self-expandable metal stent (Niti-S; TaeWoong Medical, Gyeonggi-do, South Korea) for hemostasis and biliary drainage, which resulted in immediate cessation of the bleeding (Fig. 3b). No bleeding occurred over the following days.

Bleeding after EUS-FNA is quite rare and often mild, with a reported frequency of 1% to 4.4% [1]. Extraluminal bleeding is even rarer, with a frequency of 1.3% [2]. To the best of our knowledge, this is the first reported case of bleeding into the biliary tract after EUS-FNA of a solid lesion of the pancreatic head.

Several cases have been reported of the efficacious treatment of major papilla bleeding after sphincterotomy with placement of a self-expandable metal stent [3–5], and we decided to draw on the reported experience to treat this patient with unusual bleeding. The mechanical pressure exerted by the self-expandable metal stent on the pancreatic lesion was effective in stopping the bleeding into biliary tract, which otherwise would have had to be managed with emergency endovascular treatment or surgery.

Fig. 1 A 67-year-old man undergoes endoscopic ultrasound-guided fine-needle aspiration of a pancreatic head lesion. a The procedure is performed at the marginal area of the lesion adjoining the bile duct to avoid perforating the gastroduodenal artery. b Endoscopic ultrasound (EUS) Doppler signal of spurtting bleeding from a duodenal lesion into the biliary tree. c, d EUS images of blood filling the bile duct and cystic duct.
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