Duodenal bleeding caused by pancreatic tuberculosis in a patient with AIDS and disseminated tuberculosis

Pancreatic tuberculosis is a rare but increasingly recognized disease [1]. Its common clinical manifestations include pancreatic masses that can mimic carcinoma, pancreatitis, and obstructive jaundice [2]. We report a unique case of pancreatic tuberculosis presenting with acute upper gastrointestinal bleeding due to duodenal involvement.

A 22-year-old homosexual man presented with fever, periumbilical pain, and post-prandial vomiting of 1 month’s duration. Abdominal computed tomography (CT) scans showed multiple low-attenuation pancreatic masses with duodenal involvement, and peripancreatic multiple lymphadenopathy (Fig. 1). Infection with human immunodeficiency virus (HIV) was confirmed by Western blot assay. The patient’s CD4+ T-cell count was 11 cells/µL and his plasma HIV RNA viral load was 1271 795 copies/mL. During his first week in hospital he experienced massive hematemesis, and urgent esophagogastroduodenoscopy revealed a protruding, ulcerated lesion with active bleeding from the duodenal bulb (Fig. 2). Endoscopic methods failed to stop the hematemesis and he therefore proceeded to surgical treatment. An indurated pancreatic mass invading into the posterior wall of the duodenal bulb was confirmed, but surgical treatment for the hemostasis was difficult. Angiography showed extravasation of contrast medium from the right hepatic artery (Fig. 3) and transarterial embolization (TAE) was successfully used to control the bleeding (Fig. 4). Microscopically, the pancreatic mass was composed of small granulomas and acid-fast bacilli (Fig. 5). Polymerase chain reaction assays for Mycobacterium tuberculosis performed on tissue from the pancreatic mass, sputum, ascites, and pleural fluid were all positive.

To our knowledge, there has been only one case report of upper gastrointestinal bleeding caused by pancreatic tuberculosis, in which the patient died from the bleeding and was diagnosed postmortem [3]. The present case confirms that pancreatic tuberculosis can erode the duodenum causing massive upper gastrointestinal bleeding. Treatment of the hematemesis by both endoscopic and surgical methods may be difficult because of brisk bleeding and necrosis of the pancreaticoduodenal tissue. TAE has been reported as an alternative salvage technique to surgery in patients with bleeding peptic ulcers in whom endoscopic hemostasis has not been achieved [4]. This case highlights that TAE is also effective for controlling the duodenal bleeding caused by pancreatic tuberculosis.

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Fig. 3 Angiographic image showing extravasation of contrast medium from the right hepatic artery (arrow).

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Fig. 4 Angiographic image following successful control of bleeding after embolization with two microcoils and gelfoam cubes (arrow).

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Fig. 5 Microscopic appearance of the pancreatic mass showing numerous scattered acid-fast bacilli (arrow; Ziehl–Neelsen stain, original magnification ×400).