Percutaneous transhepatic biliary drainage after failed endoscopic approach in patients with pancreatic cancer and situs inversus totalis

Situs inversus totalis is a rare entity with complete transposition of all viscera, making endoscopic, radiological, and surgical procedures challenging and complicated. Endoscopic retrograde cholangiopancreatography (ERCP) is the main treatment modality in patients with extrahepatic malignant biliary obstruction [1, 2], but in patients with situs inversus totalis, this presents a technical challenge and often fails to achieve duct access [3]. In patients with extrahepatic malignant biliary obstruction, when ERCP fails, percutaneous transhepatic biliary drainage represents a good alternative to decompress the biliary system [4, 5].

We describe two patients with situs inversus totalis and common bile duct (CBD) obstruction as a result of pancreatic cancer (Fig. 1) in whom endoscopic retrograde cholangiopancreatography failed, but both were subsequently treated successfully with percutaneous transhepatic biliary drainage.

It was decided to place the patients on the angiography table in the supine position but on the opposite side (feet first) without artificially reversing the image on the monitor. The procedure was performed after local anesthesia with a left subcostal access, between the X and XII ribs on the middle axillary line, using a 21G Chiba needle.

The cholangiography showed a dilatation of the biliary tree with a stricture at the distal CBD (Fig. 2a). A 0.18 guidewire was inserted into the bile duct, then the coaxial system was advanced into the bile duct and the intestinal lumen was reached with a 0.035 hydrophilic guide and a 4Fr MP catheter, and an 8-Fr internal–external drainage was positioned with an Amplatz guidewire (Fig. 2b). Seven days after the procedure, a self-expanding metal stent (SEMS) (10mm in diameter, 68mm length) was placed at the level of the obstruction (Fig. 2c). At the end of the procedure, an 8-Fr internal–external drainage was positioned and cholangiography performed. This showed a good patency and the correct positioning of the SEMS (Fig. 2d).

There were no complications in either patient during the procedures and the internal–external drainage has been removed from both patients.

Competing interests: None

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