An 87-year-old woman was admitted to our hospital with cholangitis caused by a cholangiocarcinoma (Figure 1). She refused surgery, so a self-expandable metallic stent (SEMS) (Memotherm; Bard Inc. Billerica, Massachusetts, USA) was placed endoscopically. One year later, she presented with cholangitis related to tumor progression. We placed a second and a third coaxial “Y”-shaped SEMS (Luminessx, Bard Inc. Billerica, Massachusetts, USA) in the right and left bile ducts. Over the following 4 months she was admitted three times with sepsis of biliary origin, which resolved after cleansing of biliary sludge from the lumen of the stents. In the last episode, when contrast was injected at the proximal end of the right bile duct stent, a leak of contrast with rapid and turbulent flow was clearly seen, indicative of a biliovascular fistula (Figure 2). We cleared out the bile duct once again and her symptoms resolved. She died 4 months later after general deterioration in her condition.

Bilihemia occurs when the hepatic vessels and the bile ducts are in communication and the pressure is higher in the latter, leading to flow of bile into the bloodstream [1,2]. In our case, taking into account the location of the fistula and the temporal relationship between the onset of bacteremia and stent placement, we believe that the fistula was created after the opening of the proximal end of the right bile duct stent can be seen, marked by the arrow (a). When contrast was injected, a leak of contrast emerging from the necrotic area was seen (arrow), with turbulent flow and rapid drainage, corresponding to the biliovascular fistula (b, c). The final image shows a more detailed view of the fistula (arrow) (d).

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