A 57-year-old man with postischemic dilated cardiomyopathy underwent a heart transplant at our center in February 2013. His early postoperative course was complicated by primary graft non-function requiring intensive care treatment. Six days after transplantation, he developed severe hypoperfusion that required maximal extracorporeal membrane oxygenation (ECMO), placement of an intraaortic balloon pump, and vasoactive drug support.

The patient’s bilirubin level increased from 0.8 mg/dL to 7.5 mg/dL and his white blood cell (WBC) count from $9 \times 10^9/L$ to $37 \times 10^9/L$. Abdominal ultrasound revealed normal-caliber intrahepatic ducts and a 10-cm sludge-filled gallbladder (Fig. 1a). A diagnosis of acute biliary septic shock was suspected and an urgent endoscopic retrograde cholangiopancreatography (ERCP) was requested for gallbladder decompression. A cholangiogram confirmed the normal-caliber intrahepatic ducts and a dilated

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**Fig. 1** Images from a 57-year-old man who had received a heart transplant but subsequently developed acute biliary septic shock showing: **a** a dilated, sludge-filled gallbladder on ultrasound; **b** an ultrathin and angulated cystic duct on the cholangiogram, which could not be stented because of its angulation and very small diameter (black arrow); **c** the guide wire positioned during endoscopic retrograde cholangiopancreatography (ERCP), which was left in place to decompress the gallbladder; and **d** the decompressed gallbladder on ultrasound 48 hours later.
gallbladder with an ultrathin cystic duct (Fig. 1b). After selective cystic duct cannulation, a 0.035-inch guide wire was advanced into the gallbladder. Because of the angulation of the cystic duct and its very small diameter, stenting was not possible. Therefore, in order to straighten the cystic duct and facilitate decompression, the guide wire was left in the gallbladder for 48 hours (Fig. 1c).

During this period, the patient’s WBC count dropped to $15 \times 10^9$/L and the gallbladder size decreased to 6 cm on ultrasound (Fig. 1d), while his bilirubin level remained stable. His hemodynamic condition improved, which allowed a reduction in the ECMO and vasoactive support. Unfortunately, 1 week later, the patient developed acute graft rejection and acute respiratory distress syndrome with multi-organ failure, and he died.

Very tight or angulated ducts may be difficult to cannulate with conventional devices. Leaving a guide wire in position for 24 hours to dilate a severe pancreatic duct stricture not traversable with conventional dilators has previously been described [1]. In our case, prolonged guide wire placement provided noninvasive decompression of the gallbladder.

In conclusion, when gallbladder decompression is required in critical “untouchable” patients and especially in the presence of an ultrathin or angulated cystic duct, this technique should be considered before other more invasive procedures, even if its efficacy cannot be fully demonstrated by a single report.

Endoscopy_UCTN_Code_TTT_1AR_2AK

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0033-1344420
Endoscopy 2013; 45: E248–E249
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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