An 81-year-old man presented with upper abdominal pain, nausea, and vomiting, with elevated liver test results. Abdominal computed tomography demonstrated mild intra- and extrahepatic biliary ductal dilation (common bile duct 11 mm), with choledocholithiasis, layering gallstones, and enhancement and thickening of the gallbladder wall. Endoscopic retrograde cholangiopancreatography (ERCP) was attempted, but biliary cannulation of an intradiverticular papilla failed, despite precut sphincterotomy. Endoscopic ultrasonography (EUS)-guided gallbladder drainage provided initial biliary decompression. Subsequently, biliary rendezvous via the gallbladder conduit facilitated conventional ERCP with sphincterotomy and stone extraction, as described below (▶Video 1).

After failed ERCP and during the same endoscopic session, an oblique-viewing, linear-array echoendoscope (Olympus, Tokyo, Japan) was passed in anticipation of biliary rendezvous. A decision was made to perform biliary decompression via the distended gallbladder, to address underlying cholecystitis in this poor operative candidate. Cholecystoduodenostomy (▶Fig. 1) was performed using a 19 G needle (Expect; Boston Scientific, Marlborough, Massachusetts, USA) for access, aspiration, and contrast injection. A 0.025 inch guidewire, 450 cm in length (VisiGlide; Olympus America, Center Valley, Pennsylvania, USA) was coiled...
into the gallbladder. Over the wire, a cautery-enhanced, 10 mm × 10 mm, lumen-apposing metal stent (LAMS; Axios; Boston Scientific) was deployed, and a 7 Fr × 4 cm double-pigtail plastic stent was placed within the LAMS (Fig. 2). The double-pigtail stent was removed 7 weeks later, and a standard gastroscope was advanced through the cholescystoduodenostomy into the gallbladder neck (Fig. 3). A stone retrieval balloon catheter, preloaded with a 0.035 inch angled hydrophilic guidewire (Glidewire; Terumo, Somerset, New Jersey, USA), was passed antegrade through the cystic duct into the common bile duct, and into the duodenum. The wire was exchanged for a long wire. The gastroscope was exchanged for a duodenoscope, and rendezvous ERCP was successfully performed with biliary sphincterotomy and stone clearance (Fig. 4). Minimal gallstones remained. The LAMS was removed and replaced with two 7 Fr double-pigtail stents for long-term gallbladder drainage.

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