Endoscopic treatment of biliary obstruction in a patient with sump syndrome

Recurrent cholangitis occasionally occurs after choledochoduodenostomy, because of stagnant bile between the choledochoduodenostomy anastomosis and papilla—a condition which is known as sump syndrome [1]. Several reports describe endoscopic sphincterotomy as useful for sump syndrome [2–4]. Here we describe an 84-year-old man showing sump syndrome with choledocholithiasis and biliary orifice obstruction, in whom endoscopic sphincterotomy was impossible.

After obtaining written informed consent, we performed stone extraction through the stoma and attempted biliary opening using two small-diameter endoscopes. One endoscope (GIF-XP260NS; Olympus, Tokyo, Japan) was advanced into the bile duct via the anastomosis after balloon dilation (Fig. 1) as a cholangioscope. Direct visualization showed no orifice in the distal bile duct (Fig. 2a, c). We inserted the other endoscope (FTS-530N; Fujinon, Saitama, Japan) into the duodenum as a duodenoscope. The cholangioscope was able to visualize the translucent phenomenon caused by the light from the duodenoscope through the papilla (Fig. 2a, d). The duodenoscope was used to observe the extramural compression phenomenon due to the cholangioscope (Fig. 2b, e). Using these two findings, we were able to correctly incise the terminal end of the bile duct (Endocut I, Effect 2, Duration 2, Interval 3; VIO300D; AMCO, Tokyo, Japan) using a needle knife (Zimmon Needle Knife Papilotomes; Cook, Tokyo, Japan) under direct vision using the cholangioscope, through observation with the duodenoscope and a fluoroscope. After making the incision (Fig. 3), we advanced the guide wire to the duodenum through the sheath of the needle knife. Using this guide wire (Fig. 3), we successfully inserted an endoscopic biliary drainage tube through the artificial orifice.

Histopathological examination of the papilla revealed no malignant findings. No adverse events occurred during or after these procedures. After the treatment, the patient recovered from sump syndrome.
This technique was useful for biliary orifice obstruction after choledochoduodenostomy. However, the findings are limited to this case report, therefore further evaluation should be performed in the future.

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