A cholecystocolonic fistula caused by penetration of a double-pigtail plastic stent after endoscopic transpapillary gallbladder stenting

Endoscopic transpapillary gallbladder stenting is currently indicated to treat acute cholecystitis, and a double-pigtail plastic stent is usually placed [1–3]. No case of cholecystocolonic fistula caused by endoscopic transpapillary gallbladder stenting has been reported.

An 87-year-old man was admitted to our hospital for the treatment of right hypochondralgia. Computed tomography revealed gallbladder distension and wall thickening (Fig. 1). Magnetic resonance cholangiopancreatography revealed a gallstone in the neck of the gallbladder. Percutaneous transhepatic gallbladder drainage was contraindicated because of anatomical inaccessibility, and endoscopic naso-gallbladder drainage was associated with a risk for tube removal by the patient. Therefore, we performed endoscopic transpapillary gallbladder stenting with a double-pigtail stent (CX-T stent, 7 Fr × 12 cm; Gadelius Medical K.K., Tokyo, Japan) (Fig. 2). The acute cholecystitis resolved after endoscopic transpapillary gallbladder stenting, and the patient was discharged without a cholecystectomy or removal of the plastic stent.

After 18 months, the patient was readmitted with recurrent right hypochondralgia. Computed tomography revealed fat stranding around the gallbladder and showed the proximal pigtail to be located in the colonic lumen (Fig. 3). At emergency surgery, we found the colon adherent to the gallbladder, which was affected by acute cholecystitis; in addition, the proximal pigtail had penetrated the walls of both the gallbladder body and the transverse colon (Fig. 4). The patient underwent an emergency cholecystectomy and partial colectomy; the final diagnosis was acute cholecystitis associated with cholecystocolonic fistula, caused by the plastic stent.

Endoscopic transpapillary gallbladder drainage is preferred in patients in whom percutaneous transhepatic gallbladder drainage is contraindicated, such as those who have severe coagulopathy or thrombocytopenia, or in whom the lesion is anatomically inaccessible [3]. Long-term placement of a gallbladder stent is used to prevent the recurrence of acute cholecystitis [1]. It is wise to remember that a cholecystocolonic fistula is one possible adverse event after endoscopic transpapillary gallbladder stenting, even when a double-pigtail plastic stent has been used.

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