Pancreatic pseudocyst with complicating colonic fistula successfully closed using the over-the-scope-clip system

A 53-year-old man had a history of alcohol-induced chronic pancreatitis. In July 2011, because of suspicion of a pseudocyst infection, he had undergone endoscopic ultrasound (EUS)-guided cyst drainage. Further investigation after drainage had revealed a fistula between the pancreatic pseudocyst and descending colon; however, the transgastric internal drainage tube was left in place because of the severity of the patient’s condition.

In August 2013, the patient visited our institution again and on the basis of an abdominal computed tomography (CT) examination, it was suspected that the fistula between the pancreatic pseudocyst and colon had persisted and was re-infected (Fig. 1). The transgastric internal drainage tube that had been inserted during his previous hospitalization was found to be obstructed (Fig. 2). Although the general health of the patient had improved, the fistula between the pancreatic pseudocyst and colon was still present (Fig. 3). This fistula was believed to have caused repeated cyst infections. Therefore, using lower gastrointestinal endoscopy, the location of the fistula in the descending colon was confirmed (Fig. 4) and the fistula was closed using the over-the-scope clip (OTSC) system (Ovesco Endoscopy AG, Tübingen, Germany) (Fig. 5). Thereafter, fistula closure was confirmed by radiographic imaging of the transnasal catheter that had been inserted (Fig. 6).
At the time of writing, the patient has two internal drainage tubes in place and is under observation, but the pancreatic pseudocyst has decreased in size, and no signs of reinfection have been reported.

Although there is no standard consensus regarding the treatment of pancreatic pseudocysts with a colonic fistula, some recent studies have reported successful closure of fistula using only endoscopic drainage in order to avoid surgery [1, 2]. In the present case, the cyst showed repeated infections after endoscopic drainage and it was determined that fistula closure would be necessary but would be difficult with endoscopic drainage alone; thus, the OTSC system was used. Although very few case reports have documented the use of the OTSC system to close a colonic fistula associated with acute pancreatitis [3, 4], the system is less invasive than surgery and can be considered as a treatment option.

Endoscopy_UCTN_Code_TTT_1AR_2AG

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0034-1365106
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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Fig. 4 The location of the opening of the fistula in the descending colon was confirmed using lower gastrointestinal endoscopy. Pus outflow from the opening of the fistula was observed (left panel). Outflow from the fistula was observed when indigo carmine was injected through the transnasal drainage catheter (right panel).

Fig. 5 The fistula between the pancreatic pseudocyst and descending colon was closed using the over-the-scope clip (OTSC) system.

Fig. 6 After use of the over-the-scope clip (OTSC) system, complete closure of the fistula was confirmed by radiographic imaging of the transnasal drainage catheter. The patient has two internal drainage tubes in place and is under observation, but the pancreatic pseudocyst has decreased in size, and no signs of reinfection have been reported.

