Hole-making technique for the treatment for acute pancreatitis due to placement of a fully covered duodenal metallic stent

Duodenal stent placement has been developed as an alternative to surgical gastrojejunostomy [1]. Compared with uncovered metallic stents, duodenal fully covered metallic stents offer advantages, such as the prevention of tumor ingrowth, and thus lower occlusion rates [2]. However, duodenal fully covered metallic stents also have several disadvantages, such as stent migration [3]. Acute pancreatitis is another adverse event associated with duodenal stent placement, occurring at a frequency of approximately 4% [4,5]. In previous reports, acute pancreatitis has been treated conservatively. If a fully covered metallic stent is placed in the duodenum, the frequency of acute pancreatitis may be increased, and the treatment of acute pancreatitis may prove difficult. We report herein a novel treatment for acute pancreatitis due to duodenal placement of a fully covered metallic stent.

A 78-year-old man was admitted to our hospital because of vomiting and obstructive jaundice. He was undergoing chemotherapy for bladder cancer. Computed tomography showed a duodenal stenosis, attributed to lymph node metastasis. No other site of stenosis was detected, so we attempted duodenal stent placement. First, we advanced the endoscope into the duodenum, and contrast medium was injected. Then, we placed a fully covered metallic stent (ComVi, 20 mm × 12 cm; TaeWoong Medical, Seoul, South Korea) in the duodenum (Fig. 2). Although the vomiting resolved completely, acute pancreatitis developed. Computed tomography showed dilatation of the main pancreatic duct (Fig. 3). Fluid is evident around the duodenal metallic stent (Fig. 4). Pancreatic juice can pass through the hole made with the diathermic dilator (Fig. 5).
Our technique may be useful in cases of acute pancreatitis caused by duodenal placement of a fully covered metallic stent.

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Bibliography

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Video 1

The endoscope is advanced into the duodenal stent. A hole is made with a diathermic dilator, allowing pancreatic juice to pass through.