Endoscopic submucosal dissection followed by laparoscopic collection of a giant duodenal lipoma causing repeated pancreatitis

A 53-year-old woman underwent laparoscopic cholecystectomy for suspected gallstone pancreatitis. However, pancreatitis occurred every few months even after cholecystectomy. Fluoroscopic and endoscopic images showed a giant submucosal tumor approximately 6 cm in size. The stalk originated from the para-ampulla in the second portion of the duodenum and the tumor head was located in the proximal jejunum over the ligament of Treitz (Fig. 1, Fig. 2). Computed tomography revealed a giant lipoma extending from the third portion of the duodenum to the proximal jejunum, and the ampulla and pancreas head were pulled and deviated to the third portion by the giant lipoma (Fig. 3). We suspected that the repeated pancreatitis might be caused by the mechanical traction of the giant duodenal lipoma.

The giant lipoma was successfully resected en bloc with endoscopic submucosal dissection (ESD) using a DualKnife (Olympus, Tokyo, Japan) in 60 minutes (Fig. 4, Video 1). The resected tumor was laparoscopically removed from the jejunum through a port site (Fig. 5). The patient was discharged without any adverse events on postoperative Day 8. No recurrence was observed thereafter. To our knowledge, this is the first case with repeated pancreatitis caused by mechanical traction of a giant duodenal lipoma. Some duodenal lipomas can be resected with conventional polypectomy and endoscopic mucosal resection, as described in previous reports [1–3]. ESD is a useful method that enables en bloc resection even with large tumors; however, duodenal ESD is challenging due to the technical difficulty and frequent compli-
cations. Only one previous case report has described a giant duodenal lipoma being resected with ESD; however, the majority of the resected specimen could not be retrieved due to its large size [4]. The current case describes a novel and noninvasive technique involving ESD followed by laparoscopic per-jejunal tumor collection for a giant duodenal lipoma causing repeated pancreatitis.

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Corresponding author

Takaya Shimura, MD
Department of Gastroenterology and Metabolism, Nagoya City University Graduate School of Medical Sciences, 1 Kawasaki, Mizuho-cho, Mizuho-ku, Nagoya 467-8601, Japan
tshimura@med.nagoya-cu.ac.jp

Competing interests

The authors declare that they have no conflict of interest.

The authors

Takaya Shimura1, Tomotaka Okubo2, Yusuke Okuda3, Hiroyasu Iwasaki1, Takahito Katano1, Akihisa Kato1, Hiromi Kataoka1
1 Department of Gastroenterology and Metabolism, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan
2 Department of Gastroenterological Surgery, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

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