Placement of a novel fully covered metallic stent for refractory pancreatic duct stricture

Plastic stent placement under endoscopic retrograde cholangiopancreatography is performed widely for the treatment of benign pancreatic stricture [1]. However, this technique may have several disadvantages such as short stent patency and persistent stricture compared with fully covered metallic stents (FCMS) [2,3]. Therefore, although FCMS placement for benign pancreatic stricture is still controversial as a result of a relatively high rate of stent migration (especially distal migration), the FCMS has a potential clinical impact in patients with chronic pancreatitis. Despite several stent exchanges, the pancreatic duct stricture persisted. Therefore, it was decided to place a novel FCMS.

First, the plastic stent was removed, and contrast medium was injected into the main pancreatic duct. A pancreatic duct stricture of the pancreatic head was seen (Fig. 2). Next, the novel metallic stent delivery system (8Fr) was inserted through the stenosis site (Fig. 3), and the stent was successfully placed (Fig. 4, Video 1). No adverse events occurred and the patient was discharged. After 6 months, no late adverse events, including stent migration, were observed. This stent may be a safer device because if the stent migrates it can be retrieved easily by grasping the long suture thread. However, results from a prospective study with long term follow-up are needed to confirm this.

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Takeshi Ogura1, Yoshitaka Kurisu2, Kazuhiro Yamamoto3, Daisuke Masuda1, Akira Imoto1, Shinya Fukunishi1, Kazuhide Higuchi1

1 2nd Department of Internal Medicine, Osaka Medical College, Osaka, Japan
2 Department of Pathology, Osaka Medical College, Osaka, Japan
3 Department of Radiology, Osaka Medical College, Osaka, Japan

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Corresponding author

Takeshi Ogura, PhD, MD
2nd Department of Internal Medicine
Osaka Medical College
2-7 Daigakuchou, Takatsukishi
Osaka 569-8686
Japan
Fax: +81-52-7635233
oguratakeshi0411@yahoo.co.jp

Fig. 4 The stent was successfully placed from the pancreatic body to the head across the stricture site. a Fluoroscopic image. b Endoscopic image.