Double-balloon enteroscope-assisted enteral stent placement for malignant afferent-loop obstruction after Roux-en-Y reconstruction

A 64-year old man was admitted to our hospital because of acute cholangitis. He had previously undergone pancreatoduodenectomy with Roux-en-Y reconstruction for a pancreatic neuroendocrine carcinoma (Fig. 1). A computed tomography (CT) scan revealed afferent-loop obstruction due to lymph node metastases (Fig. 2).

A double-balloon enteroscope (DBE; EN-450T5/W; Fujifilm Medical Systems) was inserted near the stenosis of the afferent loop, from where it was just possible to pass the enteroscope through the stenosis (Video 1). A clip was placed on either side of the stenosis and contrast medium was also injected to identify the stenosis (Fig. 3a). The overtube was moved back from the stenosis to take a distance for stent delivery and was fixed by the balloon. The enteroscope was then removed leaving the guidewire (0.035-inch Jagwire; Boston Scientific, Tokyo, Japan) in place.

A Niti-S D pyloric/duodenal stent (22mm × 6cm; TaeWoong Medical, Seoul, South Korea) was advanced along the guidewire via the overtube (Fig. 3b). The stent delivery system was passed easily through the end of the overtube. The self-expanding metal stent (SEMS) was delivered under fluoroscopic guidance using the contrast medium and the clips as landmarks (Fig. 3c). After the SEMS had been placed, the enteroscope was inserted again via the overtube to confirm that the SEMS was correctly positioned. The patient’s cholangitis was successfully controlled by placement of the SEMS.

SEMS placement for malignant small-bowel obstruction is challenging because it is sometimes difficult to approach the stenosis, and it is not possible to pass a stent delivery system through the working channel of an enteroscope. A few reports of the use of an endoscopic approach exist, but none of these have included malignant obstruction.
afferent-loop obstruction following Roux-en-Y reconstruction [1–4]. SEMS placement via percutaneous transhepatic biliary drainage has been reported, but it carries a risk of biliary leakage [5]. In this case, it was possible to securely deliver the SEMS to the stenosis because the overtube was firmly fixed by the balloon. Therefore, DBE-assisted SEMS placement is a useful procedure in the management of malignant afferent-loop obstruction.

Endoscopy_UCTN_Code_TTT_1AP_2AD

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0034-1377633
Endoscopy 2014; 46: E541–E542
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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Fig. 3 Fluoroscopic views showing: a malignant afferent-loop obstruction; b the stent delivery system being introduced via the overtube; c the enteral stent in place.