Usefulness of a screw tip stent retriever as a dilator during side-by-side placement of multiple stents for malignant hilar biliary obstruction

In malignant hilar biliary obstruction, an additional stent placement is often difficult after the placement of fully covered self-expandable metal stents (FCSEMSs) in a side-by-side fashion. An 86-year-old man who had a history of Billroth-I gastrectomy presented with a malignant hilar biliary obstruction from unresectable gallbladder duct cancer. The left, right anterior, and right posterior bile ducts were obstructed by an unresectable gallbladder duct cancer. Initially, we attempted to deploy a 6-mm FCSEMS to the left bile duct to facilitate the deployment of a plastic stent at the right-posterior branch in a side-by-side fashion. However, during multiple stenting, none of the devices used, namely the tapered cannulation catheter, balloon dilator, and sheath dilator, were able to easily pass over the stricture, despite adjusting the scope position, because of interference with the jagged surface of the fully covered self-expandable metal stents and bending of the inferior bile duct due to the Billroth-I gastrectomy.

Clockwise rotation of the Soehendra stent retriever (SSR; COOK Medical Inc., Winston-Salem, NC, USA) generated a propulsive force in addition to pushing the catheter from the back end. The spiral motion of the SSR tip allowed it to easily pass over the jagged SEMS surface and stricture. After the SSR dilated the stricture, the counterclockwise rotation allowed easy retraction without compromising the SEMSs. Finally, we succeeded in placing multiple stents in a side-by-side fashion. Thus, the use of the SSR as a dilator is one of the viable options when it becomes difficult to pass over and dilate the malignant stricture owing to interference with SEMSs or anatomical problems.
Competing interests

Akio Katanuma received honoraria as lecture fee from Olympus Co., Tokyo Japan. Any other authors have no conflicts of interest to declare.

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Endoscopy 2022; 54: E698–E699
DOI 10.1055/a-1757-9208
ISSN 0013-726X
published online 28.2.2022
© 2022. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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