Colostomy using a percutaneous lumen-apposing metal stent

A 55-year-old man with a history of Crohn’s disease with multiple abdominal resections, poor wound healing, and rectal cancer with pulmonary metastasis presented with abdominal distension, pain, and absence of bowel movement. A computed tomography scan showed a distended colon, with the known obstructing malignant lesion in the rectum. A surgical colostomy was judged not to be possible owing to his history of multiple and extensive abdominal surgical procedures. A colonic stent was not possible owing to the distal position and length of the lesion.

After discussion with the patient and inspired by the case report of Canakis and Baron [1], we decided to place a percutaneous lumen-apposing metal stent to act as a colostomy (▶Video 1). A pediatric gastroscope could be passed alongside the malignant stricture. The appropriate position of the scope was confirmed using indentation and transillumination. The large bowel was sutured to the abdominal wall using the Freka Pexact gastropexy device (Fresenius Kabi). A Chiba needle was used to introduce a guide-wire, over which a 16 × 10-mm Niti-S Hot SPAXUS stent (Taewoong Medical) was successfully deployed (▶Fig. 1).

Over the following days, the stent did not deploy sufficiently and attempted CRE balloon dilation up to 15 mm was unsuccessful. A decision was made to incise the abdominal fascia around the stent, after which it deployed fully and functioned as a colostomy for at least the next 3 weeks, at which time the patient was discharged home with palliative care.

Endoscopy_UCTN_Code_TTT_1AQ_2AF

Competing interests

The authors declare that they have no conflict of interest.

The authors

Kirill Basiliya, Jurjen J. Boonstra, Akin Inderson
Department of Gastroenterology and Hepatology, Leiden University Medical Center, Leiden, The Netherlands

Reference


Bibliography

Endoscopy 2023; 55: E1131
DOI 10.1055/a-2173-7520
ISSN 0013-726X
© 2023. The Author(s).

This is an open access article published by Thieme under the terms of the Creative Commons Attribution License, permitting unrestricted use, distribution, and reproduction so long as the original work is properly cited. (https://creativecommons.org/licenses/by/4.0/)

Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany