Endoscopic vacuum therapy with open-pore film drainage for colonic anastomotic leakage in a morbidly obese patient

Endoscopic vacuum therapy (EndoVAC) is a well-established treatment for anastomotic leakage after rectal surgery and there are a variety of other possible applications [1, 2]. In the literature, there is only one case of EndoVAC being used after colon surgery, which was for treatment of an abscess [3]. We describe the first case of EndoVAC usage for a typical anastomotic leak after colon surgery that was located 30 cm from the anus and with direct connection to the abdominal cavity.

A 79-year-old morbidly obese man with a carcinoma of the descending colon underwent surgery with resection of the descending colon, without a stoma being created. He also suffered from many other diseases, including diabetes mellitus and coronary heart disease. He devel-

Fig. 1 Endoscopic views of: a the site of the colonic anastomotic leakage (arrow); b the infected abdominal cavity seen through the anastomotic defect; c the suction catheter enfolded by open-pore drainage film lying at the site of the anastomotic leakage; d the closed anastomotic defect at the end of 9 days of EndoVAC therapy, with a residual 4-cm × 5-mm space where the covered suction catheter was placed; e spatial niche (arrow) at the site of the now completely closed anastomotic defect 4 days after finishing the EndoVAC therapy.
oped anastomotic leakage and peritonitis 5 days after the initial surgery, which led to him undergoing relaparotomy with revision of the anastomosis. Despite this further surgery, 6 days later we again diagnosed an insufficiency and started EndoVAC therapy with a catheter covered by an open-pore drainage film instead of a sponge, which was placed into the abdominal cavity, with a continuous negative pressure of 125 mmHg (▶Fig. 1a–c; ▶Video 1).

Without a stoma, using a sponge with endoluminal EndoVAC in the colon usually leads to its dislocation owing to colonic motility, gas, and feces. With our intracavitary application, the suction kept the vacuum drainage system in place and only the 14-Fr catheter lay within the colon. We thereby avoided dislocation of the vacuum drainage system. By covering the suction catheter with an open-pore drainage film, we aimed to avoid the complications of intestinal fistula and bleeding [4, 5]. The anastomotic leakage was successfully treated by 9 days of EndoVAC therapy, with the vacuum system being changed once on the third day (▶Fig. 1d, e). There were no complications.

Our case shows that intracavitary EndoVAC with open-pore film drainage in the abdominal cavity is a treatment option for colonic anastomotic leakage.

Competing interests

None

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