Intraluminal endoscopic vacuum therapy in a case of ischemia of the blind end of the jejunal loop after Roux-en-Y gastrectomy

A 43-year-old man underwent a transhiatal gastrectomy and distal esophageal resection because of adenocarcinoma of the gastroesophageal junction (ypT3, ypN0, R0). Esophagojejunostomy was performed with an end-to-side Roux-en-Y stapled anastomosis. The jejunum was shortened using a linear stapler. On postoperative day 3, increasing inflammatory parameters C-reactive protein (CRP) 310 mg/l prompted an endoscopic examination. We found an intact esophagojejunal anastomosis with good perfusion without leakage, but also ischemia at the blind end of the jejunum (Fig. 1).

According to previously described endoscopic procedures [1], intraluminal endoscopic vacuum therapy was applied immediately after diagnosis. A small-sized open-pore polyurethane foam drainage (1.5 cm diameter, 3 cm length, Suprasorb CNP Wundschaum; Lohmann & Rauscher, Neuwied, Germany) was placed onto the ischemic mucosa (Fig. 2). Continuous vacuum was applied using an electronic vacuum device (125 mmHg, intensity 10, V.A.C. Freedom Therapy System; Kinetic Concepts, San Antonio, Texas, USA). The initial endoscopy was done with the patient under general anesthesia. Vacuum drainage was changed initially on day 3 of therapy. The necrosis was already reduced, and reperfusion could be seen where the sponge had been in contact (Fig. 3).

To the best of our knowledge this is the first report of endoscopic vacuum treatment in a case of ischemia of the blind end of the jejunal loop following gastrectomy with end-to-side Roux-en-Y repair. Placement of the open-pore foam intraluminally onto the ischemic area prevented rupture damage of the jejunal suture and leakage complications. No operative treatment was necessary.

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Competing interests: Dr. Loske is a consultant for Lohmann & Rauscher.

Gunnar Loske, Tobias Schorsch, Henning Schmidt-Seithe, Christian Müller
Department of General, Abdominal, Thoracic and Vascular Surgery, Katholisches Marienkrankenhaus Hamburg, Germany

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Corresponding author
Gunnar Loske, MD
Marienkrankenhaus Hamburg
Alfredstr. 9
22087 Hamburg
Germany
Fax: +49-40-25461400
loske.chir@marienkrankenhaus.org