Successful over-the-scope clip (OTSC) treatment for severe bleeding due to anastomotic dehiscence

Postanastomotic complications of the gastrointestinal tract, including leakage and bleeding, are rare but critical conditions requiring prompt treatment. Most anastomotic problems are managed surgically [1], but endoscopic therapy is considered as the first choice of treatment for bleeding and treatment of an incomplete anastomotic dehiscence with no peritoneal involvement [1,2].

Here we report the case of a 71-year-old woman presenting with an acute fall in hemoglobin level (11.7 to 9.1 g/dL), hypotension (90/50 mmHg), and melena. Physical examination revealed skin pallor and tachycardia (130 beats per min). The patient had undergone laparotomy and debridement with a Billroth I gastroenteral anastomosis 3 weeks previously.

Next, the Twin Grasper (Ovesco, Tübingen, Germany) was advanced through the working channel of the endoscope to access the leak margins. Maneuvering the tip of the scope with gentle axial rotation allowed placement of the OTSC correctly over the dehiscence. The Twin Grasper was pulled into the distal cap of the OTSC system under continuous suction. The OTSC was deployed after the clear distal cap was filled to more than half its volume with tissue. OTSC placement took about 2 minutes and the subsequent endoscopic examination revealed complete closure of the leak and stable hemostasis (Fig. 4). The patient’s clinical condition stabilized and she was discharged 5 days later. This case is interesting for several reasons. First, we have demonstrated how OTSC use can aid emergent endoscopic therapy when other hemostatic and leak sealing techniques are deemed unsuitable due to technical problems such as right target position in a 5 o’clock oriented working channel, large leak (10–25 mm), and massive bleeding [1–4]. Second, we have provided a detailed description of the procedure, which may assist further use of the technique. Third, we have shown successful use of the OTSC for treatment of a larger anastomotic leak [1,2]. Finally, our report adds to the growing literature on potential applications of the OTSC [1–5]. Altogether, the recently introduced OTSC system provides a practical solution to difficult endoscopic treatment where standard clipping techniques may not be appropriate. The OTSC should be considered as the first choice for sealing of intermediate leaks.

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