Combined covered stent and DPS placement as treatment for large-diameter gastric fistula or gastric stenosis associated with a gastric fistula in four patients. The patients had a >2-cm large-diameter gastric fistula (n=2) or gastric stenosis associated with a gastric fistula (n=2) after sleeve gastrectomy. The edges of the gastric fistula were visualized with the injection of contrast agent (Fig. 1 a, b). A covered stent was implanted to cover the gastric fistula and to expand an associated gastric stricture. With radiological guidance, the endoscope was placed in front of the orifice of the gastric fistula allowing the placement of two DPSs. Using a transprosthetic approach, the two DPSs were placed in order to drain the gastric fistula internally (Fig. 1 c–e) and attach the covered stent when a gastric stricture was not present (Video 1). There was no morbidity related to the procedure. The median number of endoscopic procedures per patient was 3 (range 3–4), and the median number of procedures at the time of covered stent and DPS placement was 1 (range 1–1). The stent migration rate and endoscopic treatment failure rate were 0%. The median total time to complete gastric fistula closure was 57 days (range 54–100 days) and the median time between covered stent placement and gastric fistula closure was 27 days (range 26–28 days).

Use of a covered stent enables us to treat a large-diameter gastric fistula or gastric stenosis with concomitant gastric fistula in some cases, whereas the use of a DPS allows simultaneous drainage of the gastric fistula internally. This combined pro-
procedure avoided the need for additional endoscopies. The absence of prosthesis migration might have been because of gastric stenosis and better fixation of the covered stent when a DPS was placed via a transprosthetic approach. Furthermore, the median time to complete gastric fistula closure was 57 days, mainly because of the short median time interval between covered stent placement and gastric fistula closure (27 days), and the absence of endoscopic treatment failure that would have required subsequent endoscopic procedures then revisional surgery. These encouraging results should be confirmed in a prospective study with larger sample size to compare its applicability and results for the treatment of large gastric fistulas or gastric strictures with concomitant gastric fistulas.

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**References**


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