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Direct endoscopic necrosectomy in retroflexion when using a lumen-apposing transmural covered metal stent

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direct endoscopic necrosectomy; endoscopic surgery; transmural stent; walled-off necrosis

Description

Direct endoscopic necrosectomy (DEN) is an effective method for nonsurgical treatment of walled-off necrotic collections, via debridement and drainage. Some aspects of DEN technique are areas of ongoing debate, such as size or type of stent, need for simultaneous percutaneous drainage, specific approach to debridement, and number of repeat procedures. However, common to all approaches to DEN is the need for a stable, durable stomach-to-collection transmural tract for drainage and access. This is particularly important when a difficult endoscopic position is required, such as retroflexion.

In this video, we demonstrate DEN while using a lumen-apposing transmural covered metal stent (Video). The stent has a dumbbell-like shape due to both ends having a flared contour, facilitating endoscope passage and debridement in the retroflexed position (Fig. 1A&B).

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Figure 1.

Lumen-apposing transmural covered metal stent facilitates direct endoscopic necrosectomy. The dumbbell-shaped stent is placed in the gastric fundus, visualized in retroflexed position (**A**). This facilitates passage of the scope into the collection for debridement (**B**).

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Video.

Direct endoscopic necrosectomy with placement of a lumen-apposing transmural covered metal stent. (Abbreviations: DEN=direct endoscopic necrosectomy).