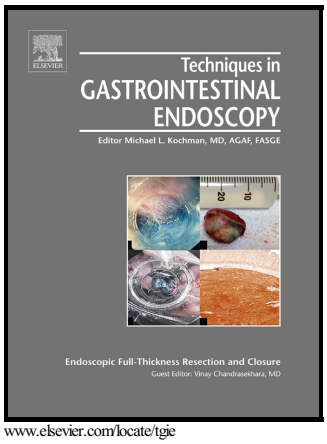

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PII: S1096-2883(17)30063-3
DOI: http://dx.doi.org/10.1016/j.tgie.2017.10.001
Reference: YTGIE50543

To appear in: *Techniques in Gastrointestinal Endoscopy*

Cite this article as: Theodore W. James and Todd H. Baron, Endoscopic Ultrasound Directed Gastroenterostomy, *Techniques in Gastrointestinal Endoscopy,* http://dx.doi.org/10.1016/j.tgie.2017.10.001

Endoscopic Ultrasound Directed Gastroenterostomy

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Abstract

Gastric outlet obstruction (GOO) is typically caused by intrinsic or extrinsic obstruction of the pyloric channel or duodenum. Surgical approaches to bypassing the obstruction have been the mainstay of therapy, though recent developments in endoscopy have allowed for a minimally invasive approach to managing GOO. The development of endoscopic ultrasound-guided gastroenterostomy (EUS-GE) represents a major advancement in the management of GOO. EUS-GE involves placement of a covered self-expandable metal stent into either the 3rd or 4th portion of the duodenum to create a gastroduodenostomy or into the jejunum to create a gastrojejunostomy. In this review, we will discuss the different approaches to EUS-GE and the indications for each approach including direct EUS-GE, EUS-guided balloon-occluded GE, assisted EUS-GE, and contrast-enhanced EUS-GE.