Gastric outlet obstruction—A rare cause

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Brunner gland adenoma (BGA) is noted in the fifth or sixth decade of life with equal gender distribution. Majority of the cases are asymptomatic. In symptomatic patients, the most common clinical presentations are gastrointestinal bleeding (37 %) and obstructive symptoms (37 %) [1]. Etiopathogenesis of BGA remains unclear. Due to the “anti-acid” function of Brunner’s glands, it has been postulated that increased acid secretion could stimulate these structures to undergo hyperplasia/hamartoma formation [2]. Endoscopy and pinch biopsies are usually negative as the tumor tissue is localized completely in the submucosal layer. On endoscopic ultrasound (EUS), the tumor is heteroechoic (due to vascularity and fibrous tissue) with cystic spaces

Fig. 1 Endoscopic and endoscopic ultrasound image of the polypoidal lesion from the pyloric channel

(dilated glands) within. Thorough evaluation of BGA with abdominal computed tomography and EUS should be performed carefully for layer of origin, extramural involvement, and for confirmation of the diagnosis. With the advent of EUS, histological examination and endoscopic resection can be done with surgery being reserved for failed/complications of endoscopic therapy or for a large tumor (Fig. 1.)

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References

1. Levine JA, Burgart LJ, Batts KP, Wang KK. Brunner’s gland hamartomas: clinical presentation and pathological features of 27 cases. *Am J Gastroenterol*. 1995;90:290–4.
2. Gao YP, Zhu JS, Zheng WJ. Brunner’s gland adenoma of duodenum: a case report and literature review. *World J Gastroenterol*. 2004;10: 2616–7.