A case of cervical esophageal adenocarcinoma arising from gastric inlet patch: A benign lesion with malignant potential Kian Abdul-Baki, DO1; Ravi Pavurala, MD2; Lindsay Bigham, DO3; Harshwardhan Thaker, MD3; Gabriel Reep, MD2; Sreeram Parupudi, MD2

utmb Health

Department of Internal Medicine, University of Texas Medical Branch¹
Department of Gastroenterology & Hepatology, University of Texas Medical Branch²
Department of Pathology, University of Texas Medical Branch³

ACG × 2022

Background

Esophageal adenocarcinoma is commonly localized to the distal third of the esophagus and is associated with long-standing acid reflux resulting in the characteristic metaplasia of Barrett esophagus. In contrast, adenocarcinoma in the proximal third of the esophagus without Barrett's metaplasia is extremely rare. A gastric inlet patch (GIP) is a lesion of ectopic gastric mucosa (EGM) usually found in the cervical esophagus and is considered an incidental finding. However, albeit rare, there is a risk of GIP malignant transformation.

Case Description

- A 50-year-old male with GERD presented with a 6-month history of progressive dysphagia and 20-pound weight loss.
- CT scan of the neck with contrast showed a heterogeneously enhancing ill-defined mass involving the cervical esophagus.
- Bronchoscopy was negative for bronchogenic cancer.
- Upper endoscopy showed a malignant stricture at 18 cm from the incisors and a gastric inlet patch adjacent to the stricture.
- The endoscope was downsized and the stricture was dilated and traversed. The Z-line was at 40 cm with Barrett's esophagus extending from 36 cm to 40 cm.
- Biopsies from the stricture showed reflux associated changes.
- Endoscopic ultrasound with fine needle aspiration and core biopsy showed a non-circumferential hypoechoic mass in the cervical esophagus 18 cm from the incisors extending to 20 cm.
- Biopsy findings were consistent with moderately differentiated adenocarcinoma.
- The patient was referred to oncology for further management.

Discussion

- Proximal esophageal adenocarcinoma is extremely rare, making up less than 1% of esophageal cancers.
- Case studies have been published associating gastric inlet patches and esophageal adenocarcinoma but the pathogenesis of malignant transformation remains unclear.
- There are no established screening guidelines for ectopic gastric mucosa.
- Esophagectomy, chemotherapy, and chemoradiation, alone or in combination, have been described as management options for proximal EAC.
- Our case re-emphasizes careful examination of EGM and to consider biopsy if there is a high index of suspicion for malignant transformation.

Figure 1: EGD showing gastric inlet patch

References

- 1) Dziadkowiec K N, Sánchez-Luna S A, Stawinski P, et al. (July 19, 2020) Adenocarcinoma Arising From a Cervical Esophageal Inlet Patch: The Malignant Potential of a Small Lesion. Cureus 12(7):e9284. DOI10.7759/cureus.9284
- 2) Cock, Charles, and Zaki Hamarneh. "Gastric Inlet Patches: Symptomatic or Silent?" Current Opinion in Otolaryngology & Early Head & Early Neck Surgery, vol. 27, no. 6, 2019, pp. 453–462.
- 3) Peitz, Ulrich, et al. "The Prevalence of Gastric Heterotopia of the Proximal Esophagus Is Underestimated, but Preneoplasia Is Rare Correlation with Barrett's Esophagus." BMC Gastroenterology, vol. 17, no. 1, 2017.

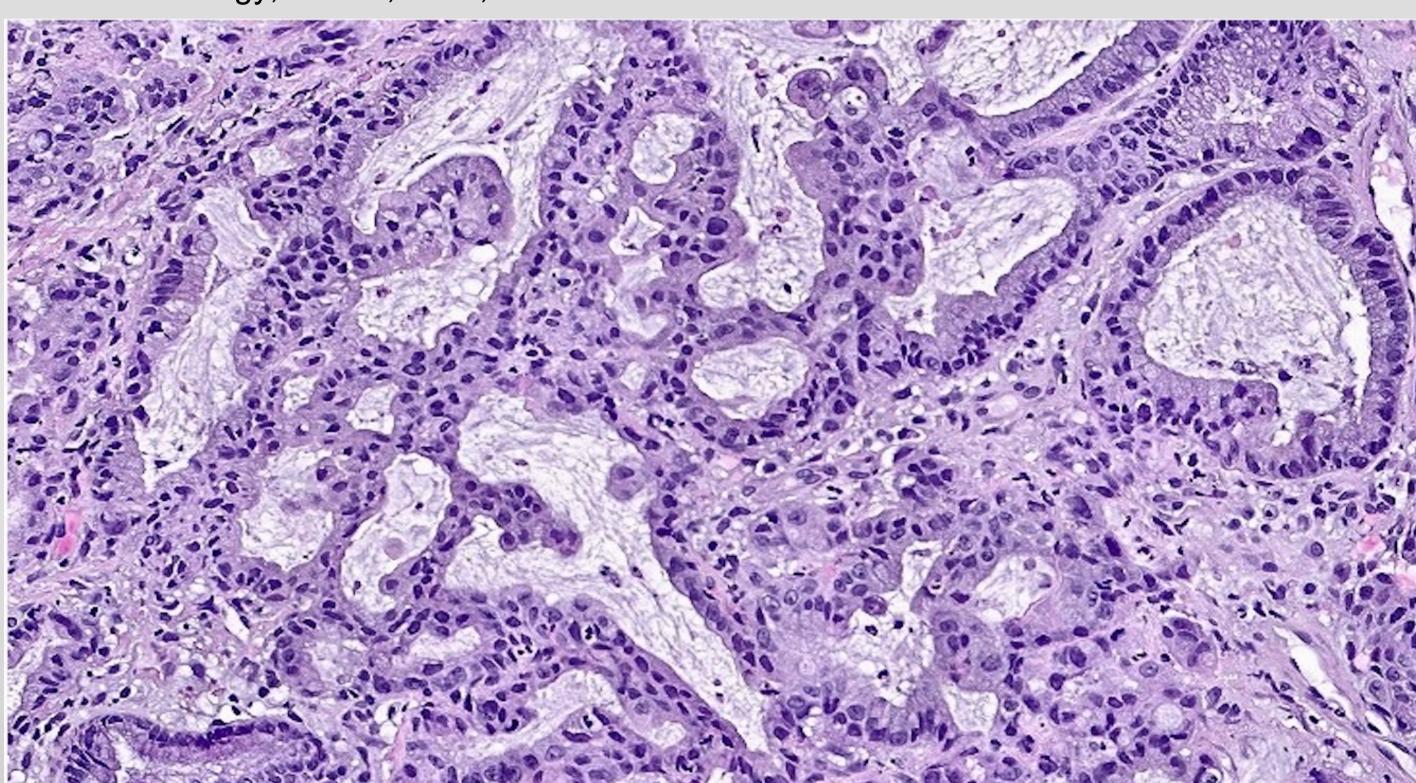


Figure 2: H&E stain consistent with moderately differentiated adenocarcinoma

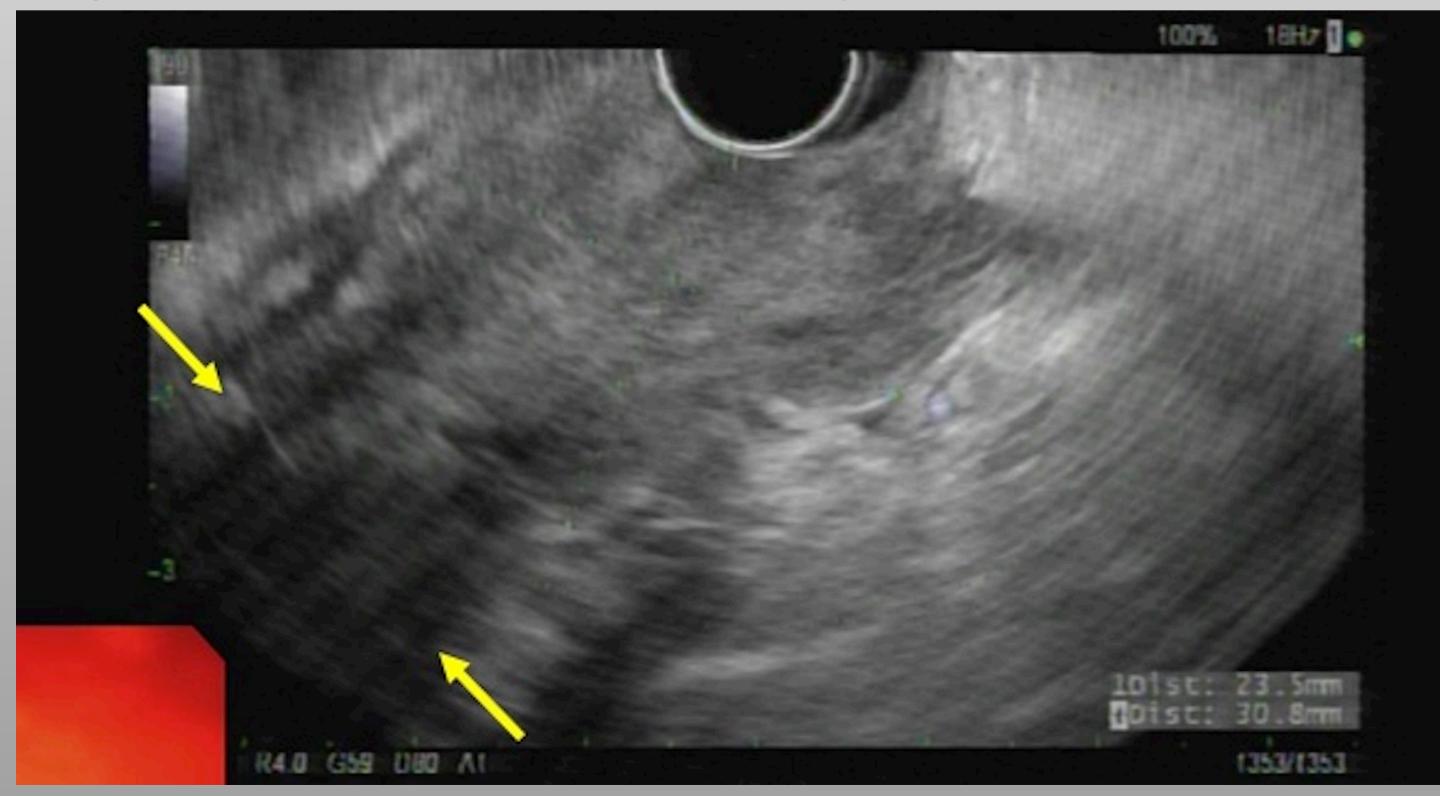


Figure 3: EUS showing non-circumferential hypoechoic mass