





Introduction

- Ectopic liver tissue (ELT) is seldom reported in the literature. It is usually asymptomatic and incidentally found.^{1,2}
- However, ELT has a strong association with malignant transformation to hepatocellular carcinoma (HCC), making removal of this tissue essential.^{1,2}
- Presented is a rare case of ELT found in the stomach.

Case Presentation

- A 78-year-old male with a past medical history of hypertension and gastritis presented to clinic for worsening gastroesophageal reflux disease (GERD) over the past six months.
- The patient reported GERD symptoms for the past twenty years that he had been self-treating with overthe-counter proton pump inhibitors, probiotics, and digestive enzymes without relief.
- On presentation his vitals, physical exam, and blood work were unremarkable.

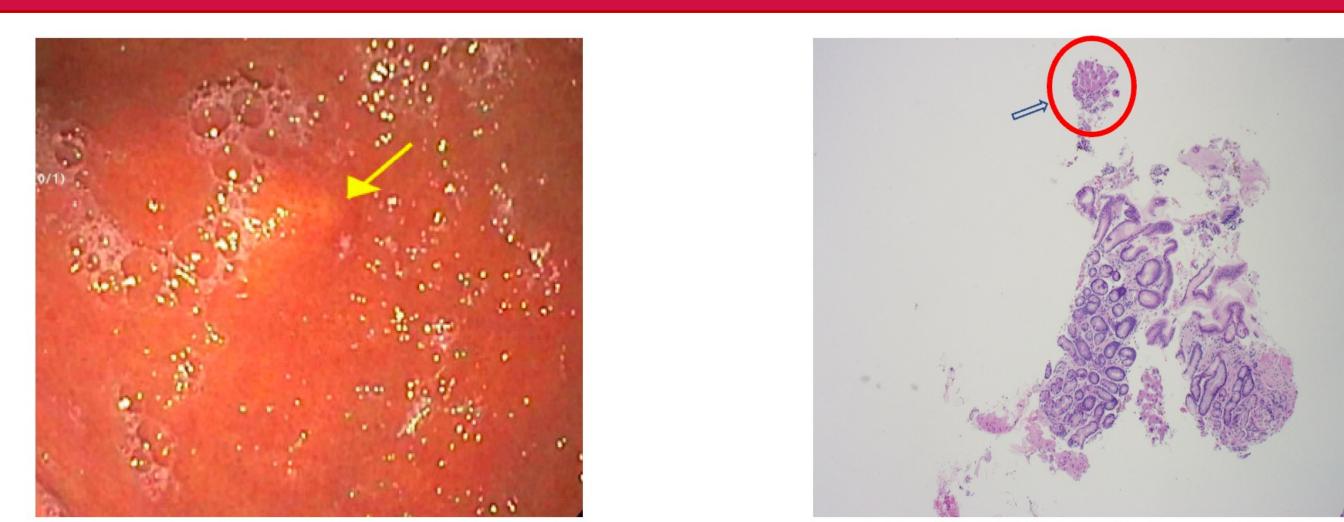


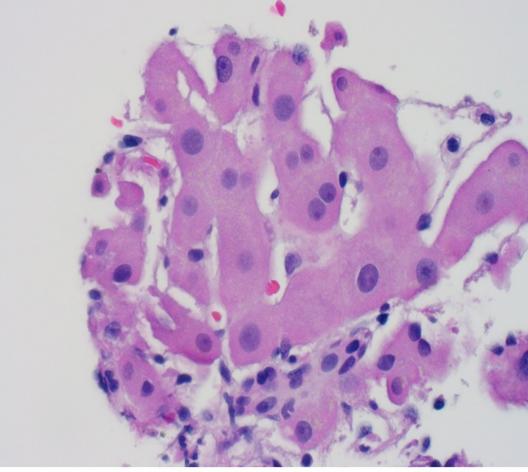
Figure 1a

A Rare Case of Ectopic Liver Tissue Incidentally Found in the Gastric Body Megan B. Ghai MD, MPHⁱ; Mahmoud Bayoumi, MD, MPHⁱⁱ; Wendi Zhou, MDⁱⁱⁱ; David Drewitz, MDⁱⁱ University of Arizona College of Medicine Phoenix- Departments of Internal Medicineⁱ, Gastroenterology & Hepatologyⁱⁱ, and Pathologyⁱⁱⁱ

Clinical Evaluation & Treatment

- The patient underwent **esophagoduodenoscopy** (EGD) revealing
 - Esophagitis Ο
 - Large paraesophageal hernia Ο
 - Single 15-millimeter submucosal nodule in the Ο anterior wall of the gastric body
- **Cold forceps biopsies** obtained from the body and antrum of the stomach were unremarkable and negative for H. pylori.
- He was referred for **endoscopic ultrasound** (EUS) where a **fine needle biopsy** of the benign-appearing gastric body submucosal nodule was performed (*figure 1a*).
- Three passes were made with a 22-gauge ultrasound biopsy needle using a transgastric approach. A visible core of tissue was obtained.
- Final cytology demonstrated Superficial gastric mucosa Ο
 - Ο
- No dysplasia or malignancy was seen.

Imaging



Detached benign liver tissue (*figures 1b, 1c*)

ELT has an incidence of 0.24-0.47%. Of the reported cases, ELT is most commonly seen in the gallbladder or pancreas.² The etiology of ELT is unknown but is thought to be associated with errors in embryological development.³ Most ELT is asymptomatic but can develop the same pathologies as the orthotopic liver. It can also cause abdominal pain, bleeding, and compression of neighboring

- tissues.^{1,2,3}
- EUS guidance.
- was recommended.

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²Zhang ZL, Wang JL, Guo CL, Li Q, Li L, Pang Y, Meng XC. Ectopic liver tissue in the esophagus: A case report. Medicine (Baltimore). 2019 Apr;98(17):e15260. doi: 10.1097/MD.000000000015260. PMID: 31027076; PMCID: PMC6831271. ³Yahya AI, Ehteweish M and Endash S. Choriostoma (Heterotopic Liver is it of Concern). Ann Surg Perioper Care. 2016; 1(1): 1005. ISSN:2573-5314

- *Figure 1a.* Arrow indicating nodule in gastric body, as seen by endoscopic ultrasound.
- Figure 1b. Hematoxylin and eosin stain with 100x magnification. Normal gastric glandular mucosa. Arrow indicating benign unremarkable hepatic tissue found in gastric body.
- *Figure 1c.* Hematoxylin and eosin stain with 200x magnification. Benign unremarkable hepatic tissue found in gastric body.



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Discussion & Conclusions

There is also a strong association between HCC and ELT, necessitating biopsy and endoscopic removal.^{1,2} This case demonstrated ELT incidentally found in the gastric body during EGD and was biopsied by a fine needle using

Histology was without features to suggest malignancy, but to prevent malignant transformation endoscopic resection

References