

Introduction

- PDAC is an aggressive malignancy that requires prompt diagnosis and treatment to provide the patient with the best chance of long-term survival.¹
- Patients who have an imaging-confirmed solitary pancreatic mass generally undergo a EUS-guided fine needle biopsy (FNB) for histological confirmation of the diagnosis.²

Aim

We describe a rare case of solitary intramural gastric metastases discovered on surveillance EGD prior to EUS-guided biopsy.

Figure Legends

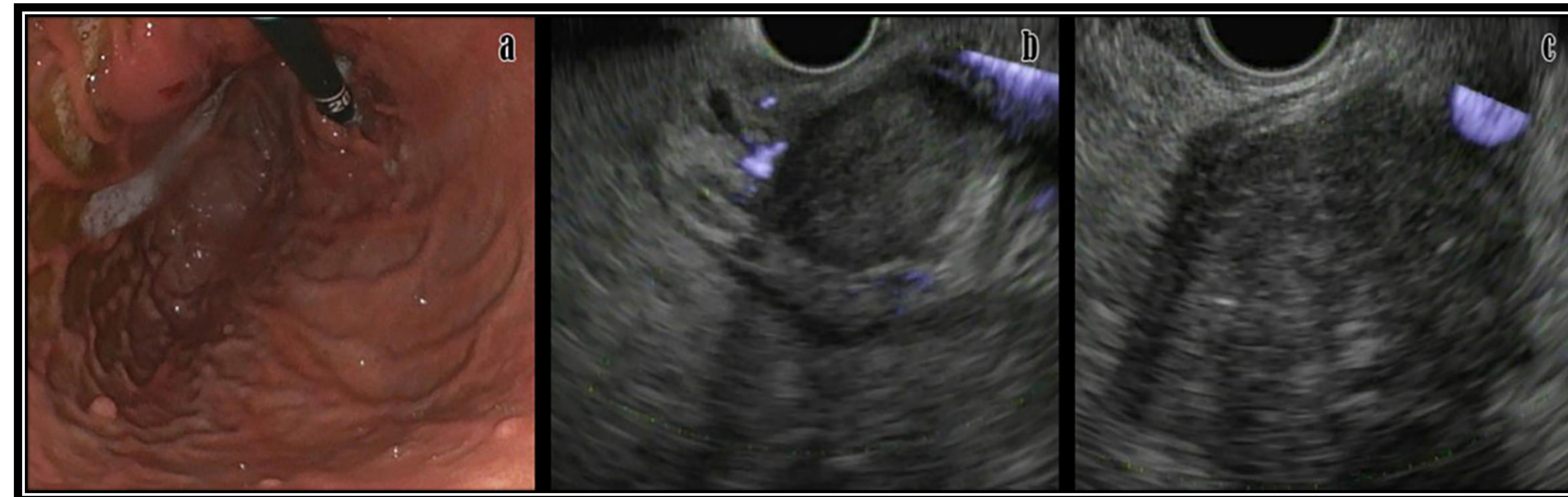
Figure 1a: EGD demonstrating 2cm submucosal, non-circumferential mass in the gastric fundus.

Figure 1b: EUS demonstrating a 2.1 cm intramural mass in the gastric fundus originating from the muscularis propria.

Figure 1c: EUS demonstrating 3.9-cm x 3.8-cm mass in the pancreatic body with invasion into the superior mesenteric vein, splenic vein, and splenoportal confluence with no noted arterial involvement

Case

- 63-year-old male with a past medical history of hypertension, chronic pancreatitis, and tobacco use presented with two months history of epigastric pain, and 5lbs weight loss.
- He denied jaundice, loss of appetite, pale-colored stools, or generalized itching.
- Initial CT abdomen showed a **2.7cm x2.6cm mass in the pancreas body** with associated proximal pancreatic duct dilatation and atrophy, suspicious of pancreatic neoplasm.
- **Ca19-9 was 111, and CEA was 1.1. No evidence of metastasis was found on the CT chest/abdomen. EUS-guided FNB was scheduled.**
- **At the beginning of the procedure, a surveillance EGD was performed which showed a 2cm submucosal, non-circumferential mass in the gastric fundus (Figure 1a).**
- **EUS was performed next which confirmed a 2.1 cm intramural mass** in the gastric fundus originating from the muscularis propria (**Figure 1b**), and a **3.9cm x 3.8cm mass in the pancreatic body** with invasion into superior mesenteric vein, splenic vein, and splenoportal confluence with no noted arterial involvement (**Figure 1c**).
- EUS-guided FNB of both lesions was obtained using separate needles. Histopathology from both biopsies demonstrated invasive adenocarcinoma, histomorphologically similar and suggestive of a pancreatic primary. This changed the staging of the patient from borderline resectable to metastatic and he was referred for palliative chemotherapy.



Discussion

- **Isolated gastric metastasis of PDAC is extremely rare, and documented cases in the literature are from a prior diagnostic biopsy that created a seeding tract.³**
- Our case highlights two major points:
 - 1) Though rare, isolated intramural gastric metastasis can occur and can be missed on cross-sectional imaging.
 - 2) Currently there is no consensus or guideline that mandates an EGD prior to EUS.
- In this case, this significant finding which changed the staging, treatment, and prognosis of the patient could have been missed with an oblique viewing EUS scope.
- At our center, **we routinely perform EGD prior to EUS. Prospective studies are needed to confirm the utility of this practice.**

References

1. Vincent A, Herman J, Schulick R, Hruban RH, et al. Pancreatic cancer. Lancet. 2011;378(9791):607-620.
2. Harewood GC, Wiersema MJ. Endosonography-guided fine needle aspiration biopsy in the evaluation of pancreatic masses. Am J Gastroenterol. 2002;97(6):1386-1391.
3. Rothermel LD, Strosberg C, Centeno BA, et al. Case Report of Isolated Gastric Metastasis of Pancreatic Cancer From a Diagnostic Biopsy: Management of a Rare Oncologic Entity. Cancer Control. 2020;27(1).