

Introduction

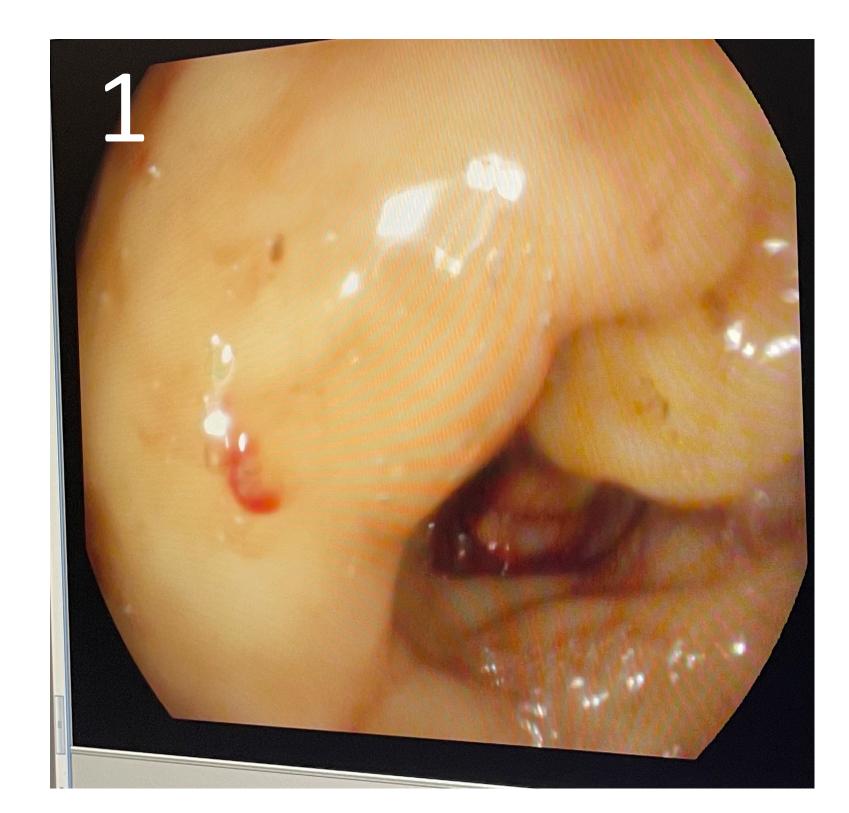
- Peptic Ulcer Disease (PUD) accounts for over 750 million dollars in medical spending yearly.
- Incidence of uncomplicated PUD is approximately 1 case per 1000 person years and complicated incidence was approximately 0.7 cases per 1000-person years.¹
- The most common causes of PUD are H pylori and NSAID use, rarer causes include infections (HSV, CMV), vascular insufficiency, infiltrating diseases, or hormonal hypersecretion states.
- Here, we present an interesting endoscopic finding of a perforated peptic ulcer with fistulation in the duodenal bulb.

Case Report

- A 73 year old man with past medical history of hypertension, hyperlipidemia, cocaine and marijuana use as well as peripheral artery disease.
- He presented for dry gangrene of his 2nd and 4th toes, he underwent amputation and femoral bypass during which he was loaded with Plavix.
- 12 hours after his procedure he became hypotensive, tachycardic, had melenic stools, and had a 3 gram drop in his hemoglobin. He was started on PPI, resuscitated with fluids and pRBCs.
- Endoscopic evaluation which showed frank blood in the \bullet stomach, duodenal bulb and duodenum. A lumen was visualized near the pylorus which was able to be traversed via the scope. The lumen had areas of ulceration and bleeding without any visible vessels. [Figures 1-4].

Non-Steroidal Anti-Inflammatory Drug Induced Perforating Ulcer- the Case of the Double Lumen Kamal Amer, MD¹, Brooke Baker, MD², Maggie Cheung, MD,¹ Christopher Lenza, DO³

Endoscopic Images



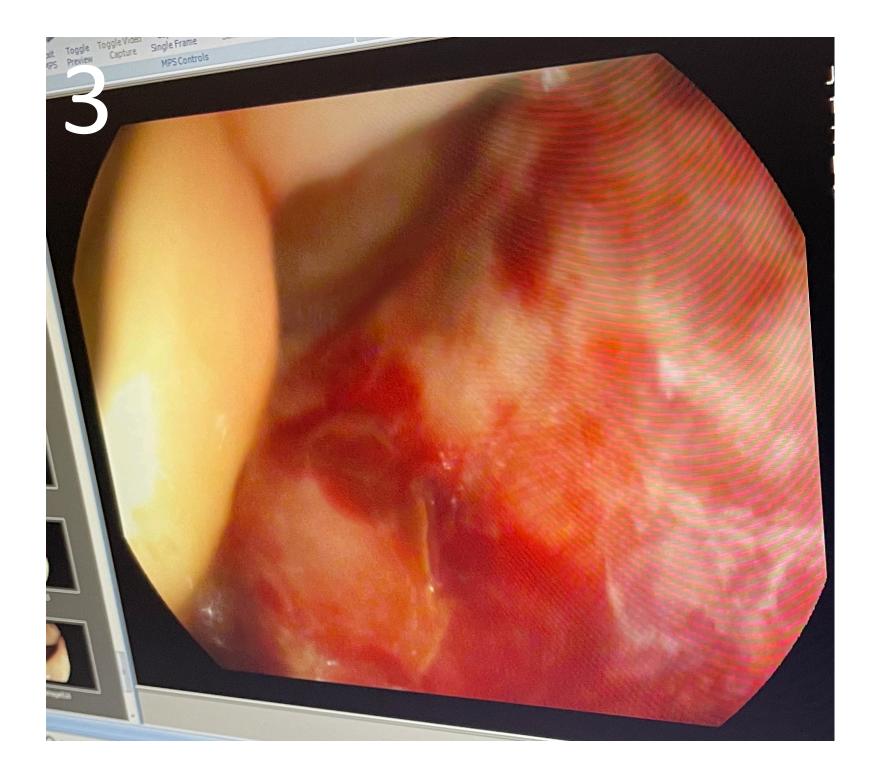
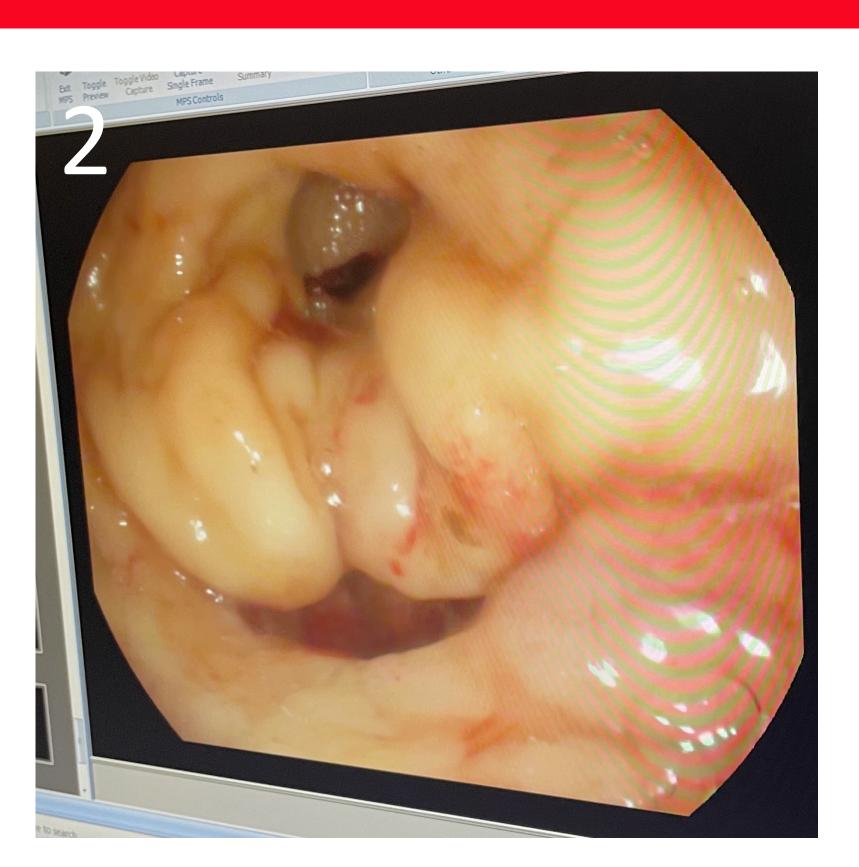
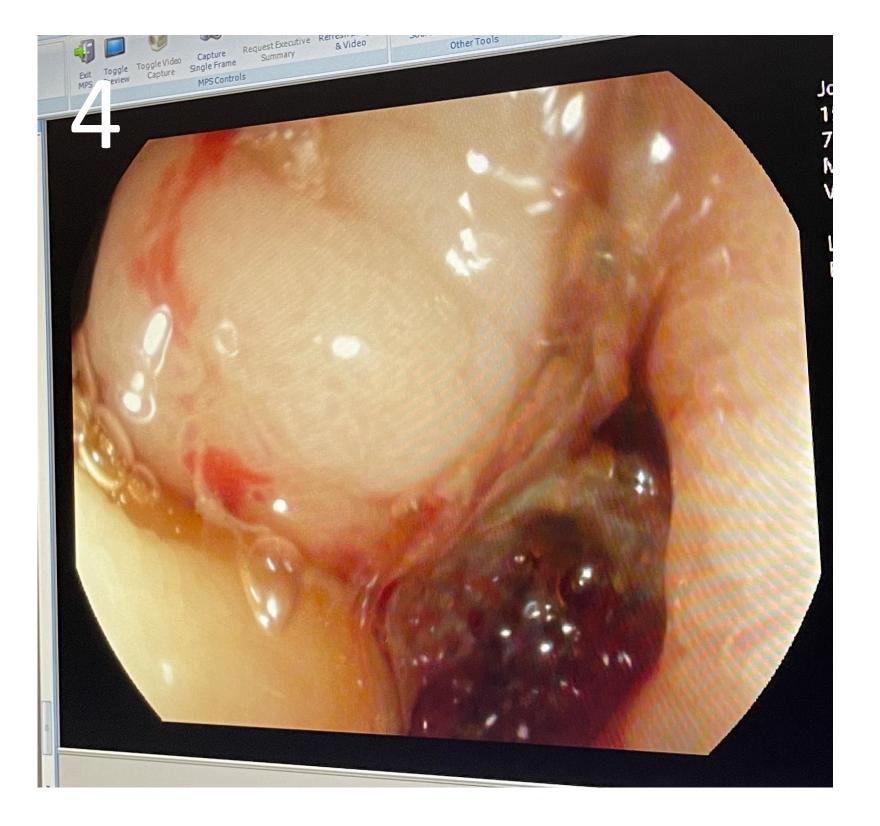


Figure 1-4:

- (1) Endoscopic view of antrum with fistulized lumen
- (2) Double lumen sign: pylorus superior and fistulized lumen inferior
- (3) Ulcerated gastric mucosa adjacent to lumen
- (4) Adherent clot adjacent to fistulized lumen

- ¹Department of Gastroenterology and Hepatology
 - ²Department of Internal Medicine
 - ³East Orange Veterans Association
- Rutgers New Jersey Medical School, Newark, NJ, 07103





- use and risk.

- May 27. PMID: 21626606
- 2018;113.

Discussion

PUD rates rates in the United States have been steadily decreasing, likely due to increased education regarding NSAID

This patient used approximately 1200 mg of ibuprofen daily over the past 6 months. In addition to NSAIDs he used cocaine daily. Cocaine is associated with many GI complications including bowel ischemia, gastric ulcers and gangrene, but the pathogenesis is less understood.

The most likely mechanism is the vasoconstrictive alphaadrenergic receptors in the gastric and mesenteric arteries, and the inhibitory effect on gastric motility also increases exposure to acid therefore predisposes to ulcer formation.²

He had a gastroduodenal fistula, also known as an acquired double pylorus. Although this can be congenital, this was likely due to a perforated ulcer in the pre-pyloric region.

The double pylorus is a rare finding and has been reported in 0.001-0.4% of EGD.³ This patient had no symptoms, until he was loaded with Plavix. He was treated with PPI and will follow up outpatient.

References

1. Lin KJ, García Rodríguez LA, Hernández-Díaz S. Systematic review of peptic ulcer disease incidence rates: do studies without validation provide reliable estimates?

Pharmacoepidemiol Drug Saf. 2011 Jul;20(7):718-28. doi: 10.1002/pds.2153. Epub 2011

2. Gadupti V, Tariq H, Ihimoyan A. Atypical Gastric Ulcer in an Elderly Cocaine User. Case Reports in Gastrointestinal Medicine. vol. 2013, Article ID 795258, 3 pages, 2013. https://doi.org/10.1155/2013/795258

3. Ofosu A, Brana C, Culliford A, Gaduputi V. A case report of double pylorus: an unusual complication of peptic ulcer disease: 1885. Off J Am Coll Gastroenterol ACG. [Internet].