

Significantly Prolonged Delayed Gastric Emptying After Whipple Procedure: A Multi-specialty Approach to Delayed Gastric Emptying with Concomitant Gastric Outlet Obstruction

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Introduction

- Delayed gastric emptying (DGE) is a common complication post Whipple
 Gastric outlet obstruction is less common
- but should be on the differential
- There are limited case reports that describe concomitant gastric outlet obstruction (GOO) and DGE over such a prolonged period of time.

Case Presentation

- 69 year old male with T2N0M0 pancreatic adenocarcinoma underwent a Whipple procedure with major vascular reconstruction
- Post operatively he developed suspected DGE
- Conservative measures were ineffective
- Imaging and endoscopy demonstrated GOO at efferent Limb.
- Full Covered Self Expanding Stent was utilized
- Stent removed for migration, and efferent limb was patent at that time
- Continued diet intolerance
- Persistent DGE, treated conservatively and ultimately resolving after 9.5 weeks

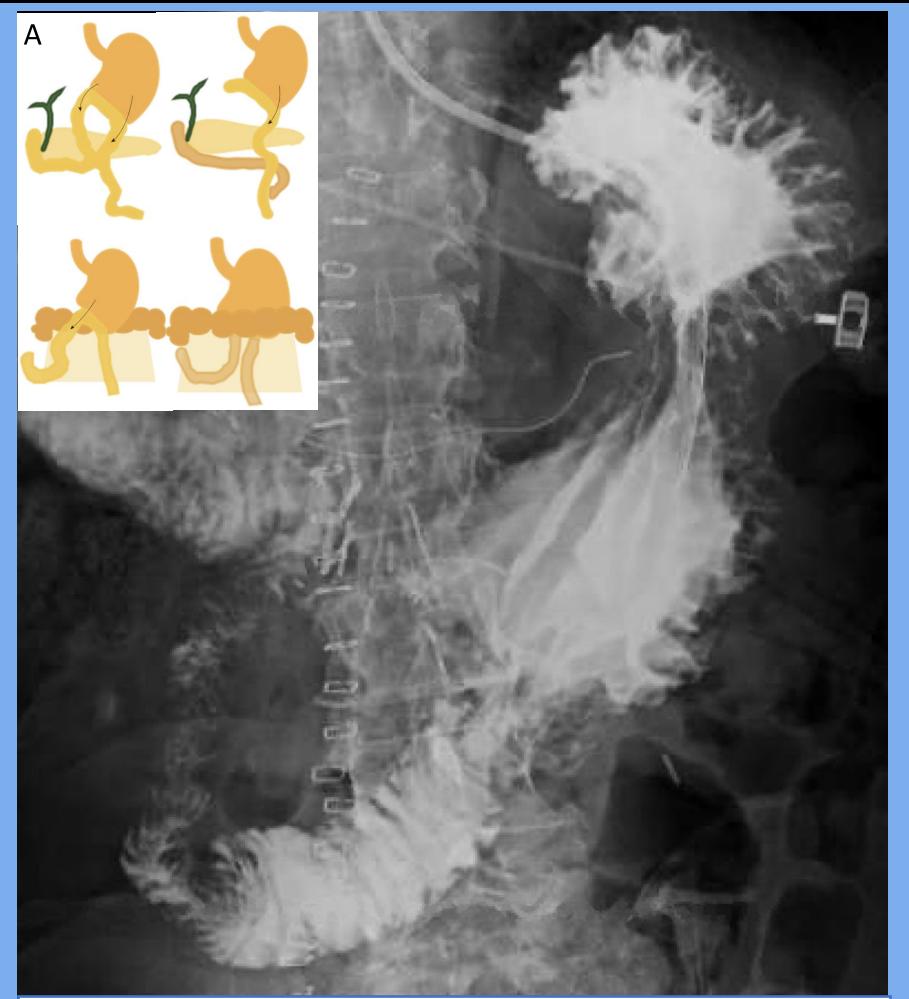
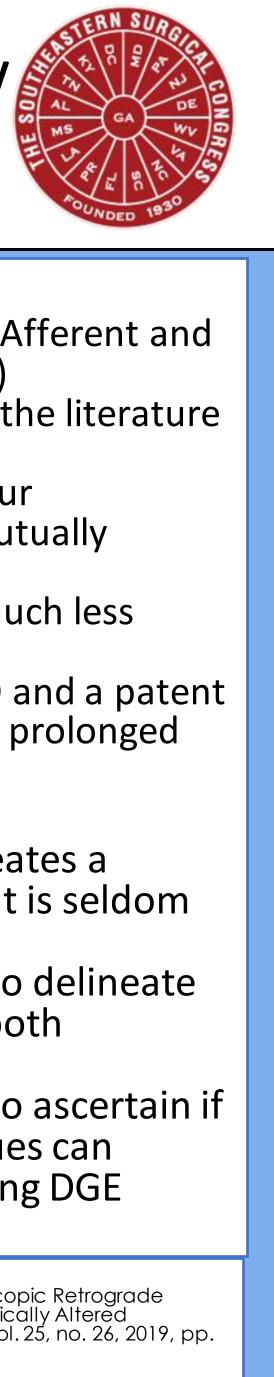


Figure 1. Upper Gastrointestinal X-ray demonstrating no contrast passing into the efferent limb of the Gastrojejunostomy. (Inlay A, clock wise orientation) Braun enteroenterostomy, Roux-en-Y, antecolic, retorcolic¹



Discussion

- There are two types of GOO, Afferent and Efferent Limb Syndrome (ELS)
- ELS is described much less in the literature and is more rare
- DGE and GOO commonly occur independently but are not mutually exclusive
- The combination of both is much less common
- Despite intervention for GOO and a patent efferent limb he still suffered prolonged diet intolerance with DGE

Conclusion

- Combined GOO and DGE creates a unique clinical challenge that is seldom encountered
- Further research is needed to delineate treatment pathways when both processes occur together
- Further research is needed to ascertain if alternative surgical techniques can mitigate the risk of developing DGE

References

Krutsri, Chonlada, et al. "Current Status of Endoscopic Retrograde Cholangiopancreatography in Patients with Surgically Altered Anatomy." World Journal of Gastroenterology, vol. 25, no. 26, 2019, pp. 3313–3333.