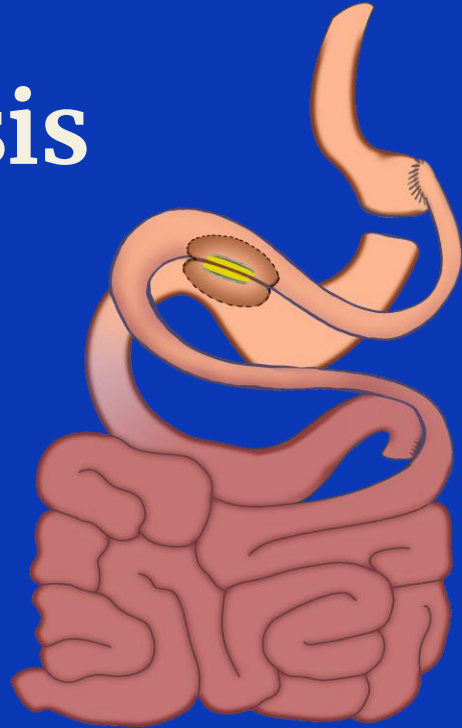


Reversal of Gastric Bypass Using Magnetic Compression Anastomosis

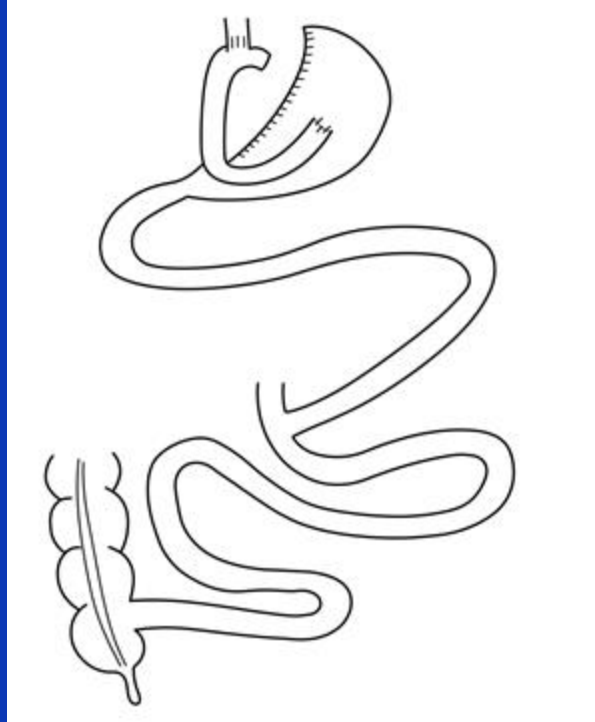
James A Foote MD FACS



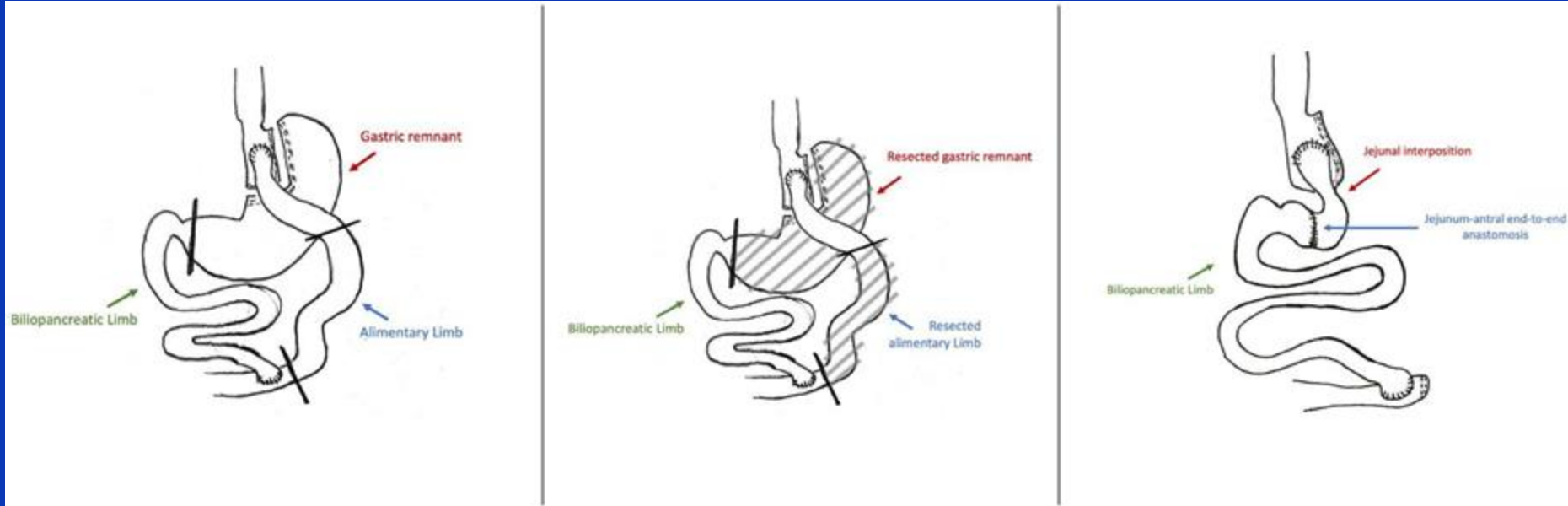
Background

- Post-operatively, RYGB may lead to hypoglycemia, marginal ulcers, malnutrition, vitamin deficiency and uncontrollable diarrhea and frequent stools.
- This may be treated with reversal of RYGB up to 88% of the time to reestablish normal anatomy for passage of food and reestablish normal hormonal mechanisms.¹
- The majority of RYGB reversals are done with gastrogastrostomy.^{2,3}
- The Henley-Longmire Loop has been described which uses an esophageal-jejunal anastomosis and gastro-jejunal anastomosis to restore normal anatomy.⁴
- The Branco-Zorron Switch has been described which uses a jejunal interposition, resection of the remnant stomach, and resection of residual roux limb in order to restore normal anatomy.⁵

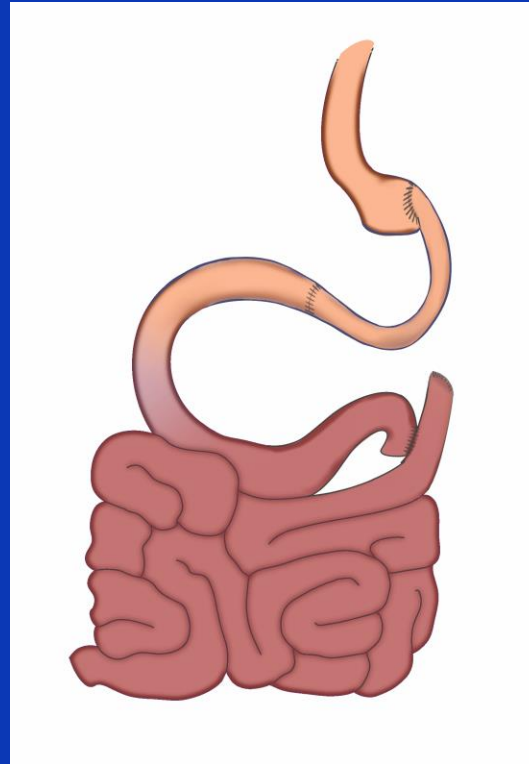
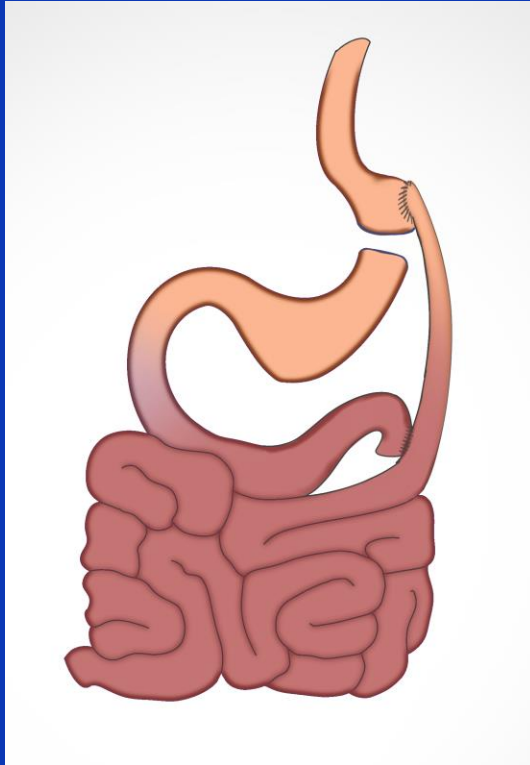
Henley-Longmire Intestinal Loop



Bronco Zoron Switch



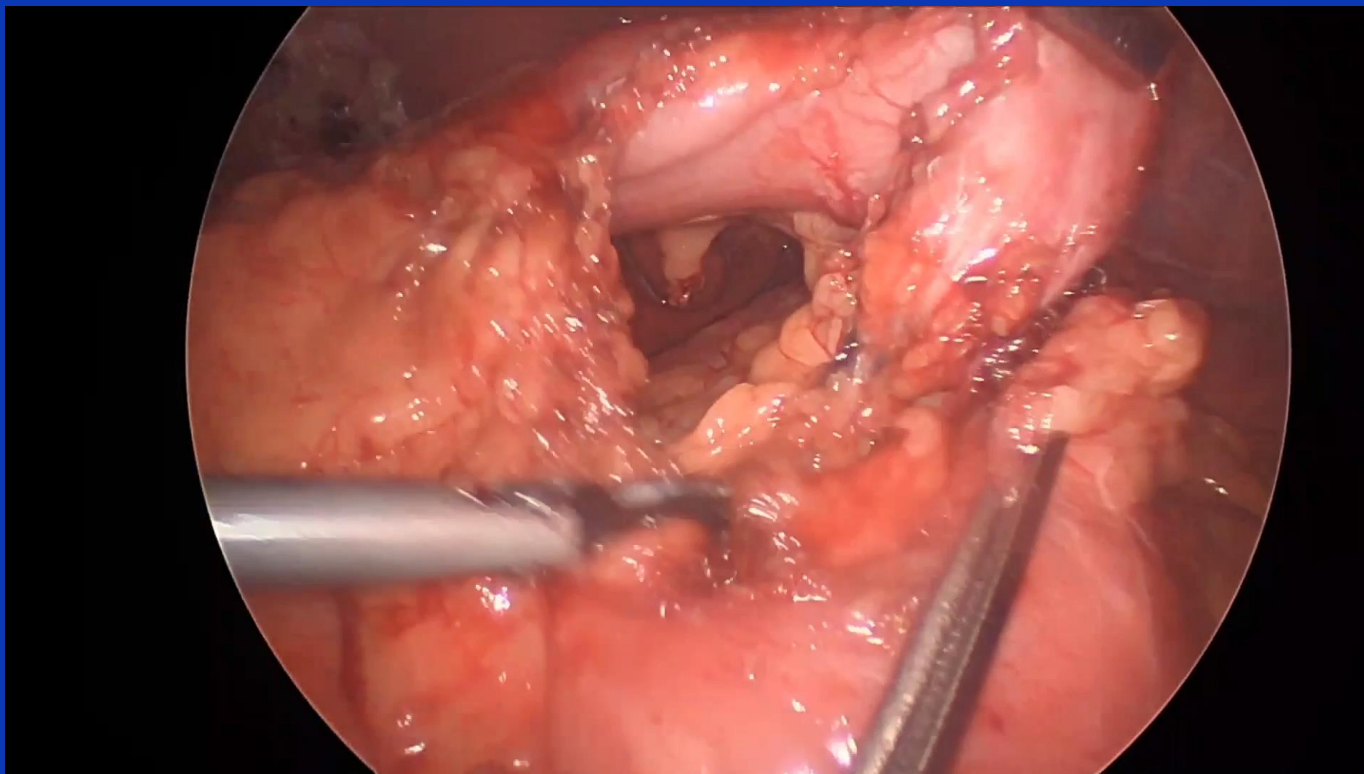
Suture Reversal Technique



Suture Reversal Patient Case

- 37 year old female
- PMH: obesity, asthma, PCOS
- PSH: laparoscopic sleeve gastrectomy and hiatal hernia repair, laparoscopic conversion to gastric bypass, cholecystectomy, and hiatal hernia repair, hysterectomy
- BMI 45.56 > 33.89
- Daily episodes of hypoglycemia to 30 resulting in desire for RYGB reversal

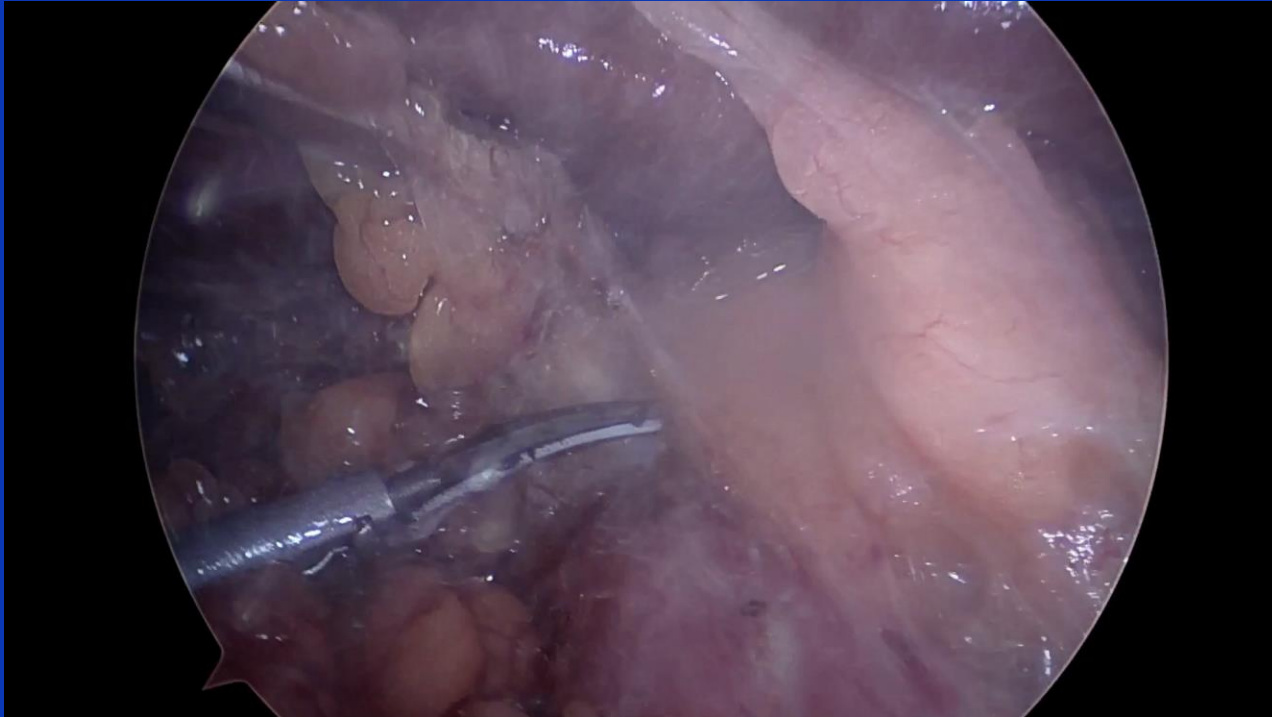
Suture Reversal Patient Case



Magnetic Reversal Patient Case #1

- 27 year old female
- BMI 58.17 kg/m²
- Underwent LRNYGBP 12/04/24, 150cm ROUX limb
- Patient suffered from severe diarrhea and dehydration with up to 6 stools daily
- 10/13/2025 we performed laparoscopic reversal of gastric bypass with duodenal-jejunal magnetic compression anastomosis

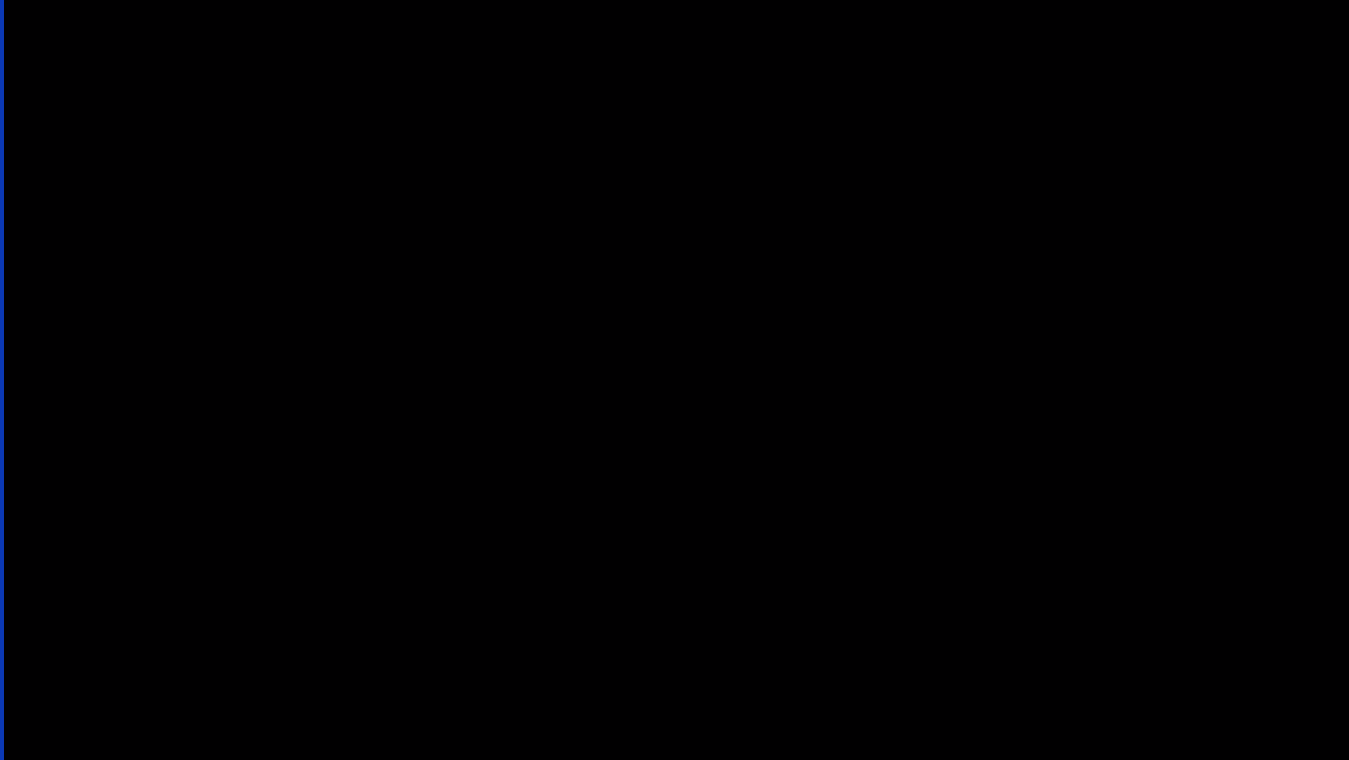
Magnetic Reversal Patient Case #1



Magnetic Reversal Patient Case #2

- 58 year old female
- Underwent laparoscopic sleeve gastrectomy in 2016, motor vehicle accident in 2020 with small bowel resection, conversion to RNYGB 2/19/2025 for severe GERD. BMI drops to 20 kg/m² and patient cannot maintain her weight. Had to place a feeding tube in her remnant stomach.
- 2/23/2026 Patient underwent laparoscopic reversal of gastric bypass with duodenal-jejunal magnetic compression anastomosis

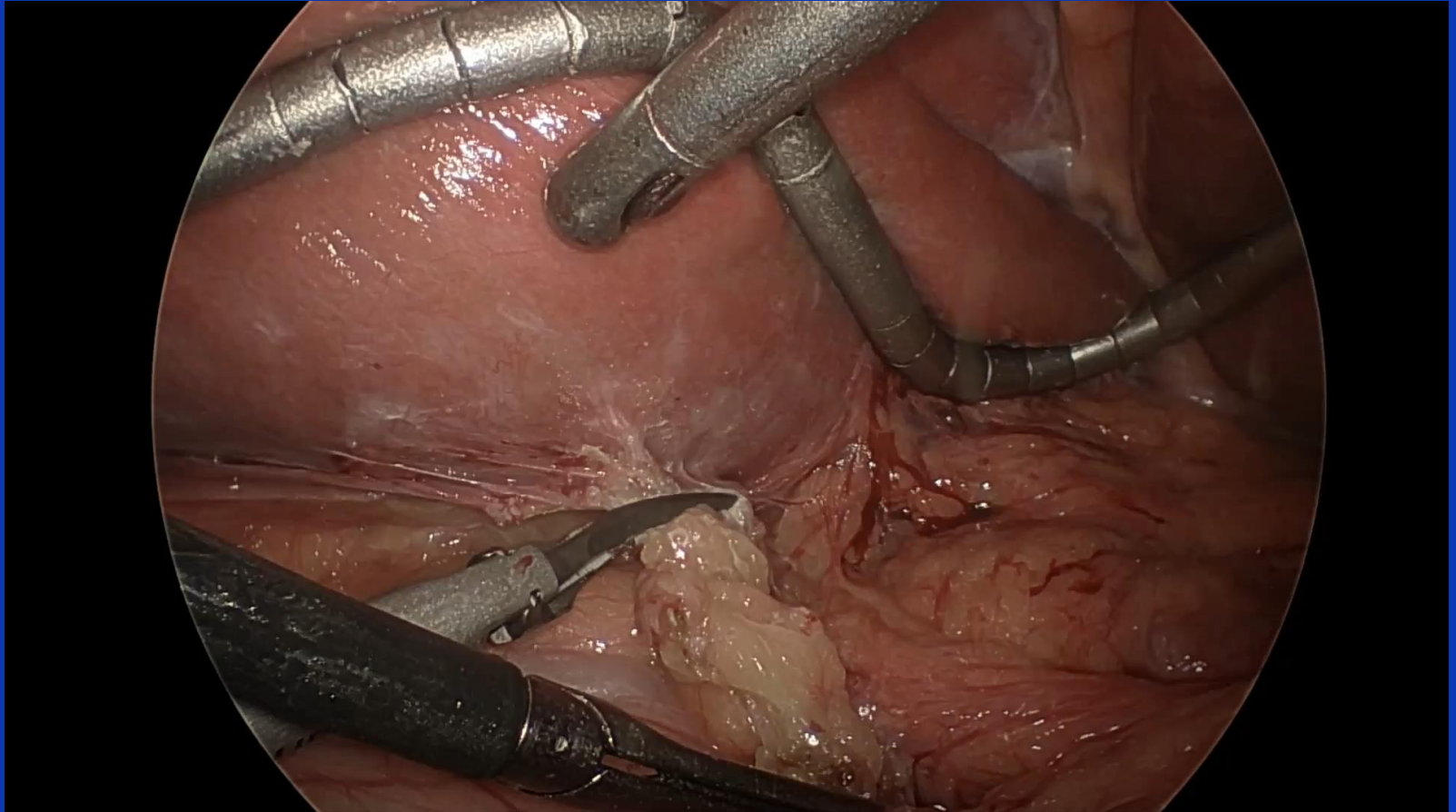
Magnetic Reversal Patient Case #2



History–S/P total gastrectomy

- 34 y/o female, BMI 37.5 HTN, OSA, Dyslipidemia
- Laparoscopic sleeve gastrectomy on 9/7/2016
- 9/21/2016 staple line leak identified, stent placed
- 3/15/2017 surgical feeding tube placed
- Total gastrectomy, Roux en Y, Esophagojejunostomy

Retrograde Duodenal Magnet Placement



Citations

1. Xu Q, Zou X, You L, et al. Surgical Treatment for Postprandial Hypoglycemia After Roux-en-Y Gastric Bypass: a Literature Review. *Obes Surg.* 2021;31(4):1801–1809. doi:10.1007/s11695-021-05251-x
2. Shoar S, Nguyen T, Ona MA, et al. Roux-en-Y gastric bypass reversal: a systematic review. *Surgery for Obesity and Related Diseases.* 2016;12(7):1366–1372.
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4. Auctores. Gastric Bypass Reversion with Henley-Longmire Intestinal Loop, Surgical Treatment of Recurrent Marginal Ulcer – A Case Report. Auctores. Accessed September 5, 2024. <https://auctoresonline.org/article/gastric-bypass-reversion-with-henley-longmire-intestinal-loop-surgical-treatment-of-recurrent-marginal-ulcer-a-case-report>
5. Zorron R, Branco A, Sampaio J, et al. One-Anastomosis Jejunal Interposition with Gastric Remnant Resection (Branco-Zorron Switch) for Severe Recurrent Hyperinsulinemic Hypoglycemia after Gastric Bypass for Morbid Obesity. *OBES SURG.* 2017;27(4):990 –996.

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