

A Novel, "Pexy" Idea for Recurrent Hiatal Hernia after Laparoscopic Roux-en-Y Gastric Bypass - Percutaneous Endoscopic Jejunostomy Pexy of the Roux Limb

Katherine Markesbery, DO; David Kutz, MD; Katherine Meister, MD; Kevin Tymitz, MD
TriHealth Good Samaritan Hospital, Cincinnati, OH

INTRODUCTION

GERD and hiatal hernias are common in morbid obesity. Hiatal hernia recurrence after minimally invasive repair ranges from 25–60%. Recurrent hiatal hernia after RYGB is rare and technically challenging. We present a novel approach using PEJ-assisted Roux limb pexy.

Figure 2. UGI, dilated gastric pouch and roux/candy cane limb with minimal passage of oral contrast into sub-diaphragmatic roux limb

CASE PRESENTATION

A 49-year-old female with prior sleeve gastrectomy presented with severe reflux, dysphagia, and weight regain (BMI 43). She underwent conversion to RYGB with hiatal hernia repair. One year later she developed recurrent complex hiatal hernia with obstruction, requiring emergent repair. Persistent symptoms led to a third operation with mesh cruroplasty and PEJ-assisted Roux limb pexy.

Figure 1. Index laparoscopic conversion of sleeve gastrectomy to roux-en-y gastric bypass with hiatal hernia repair

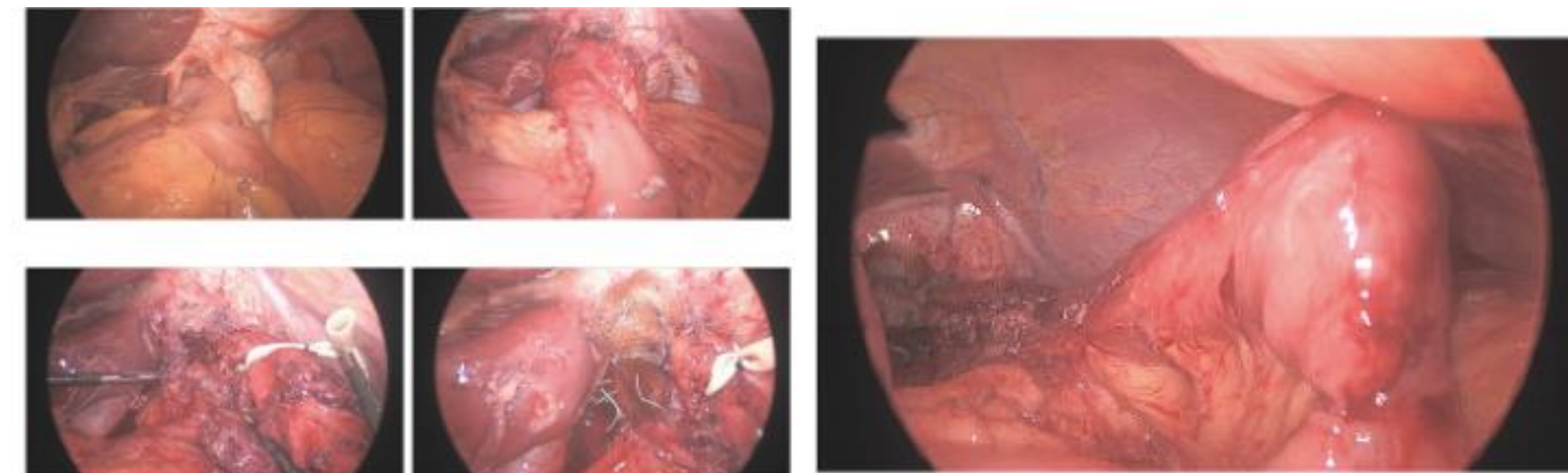
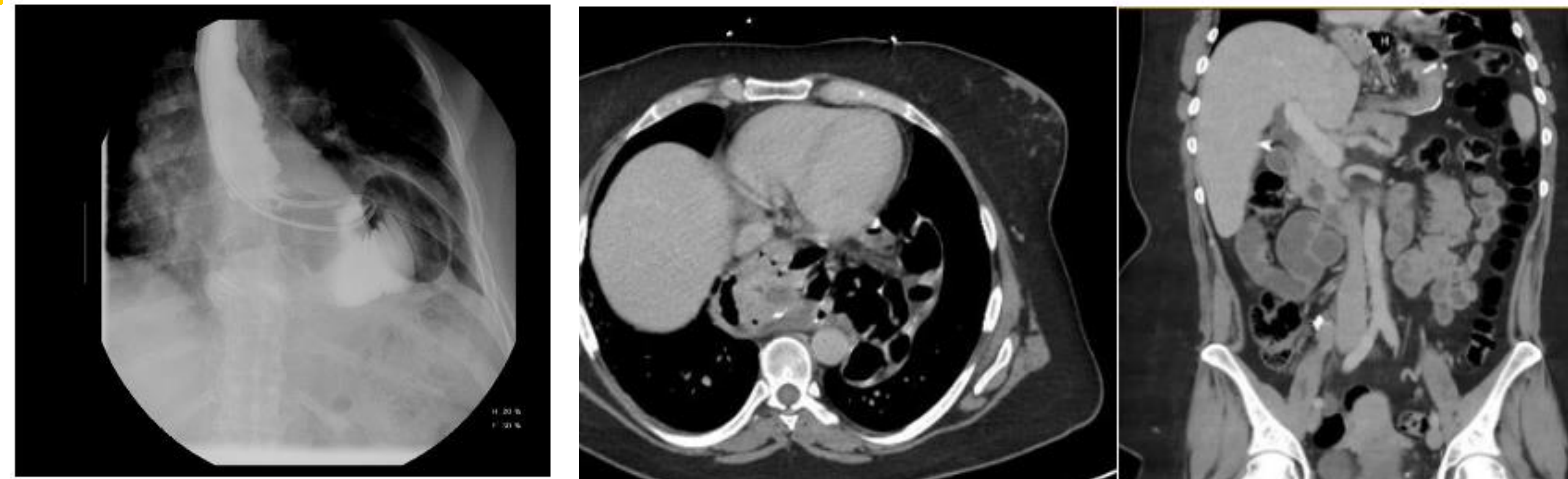
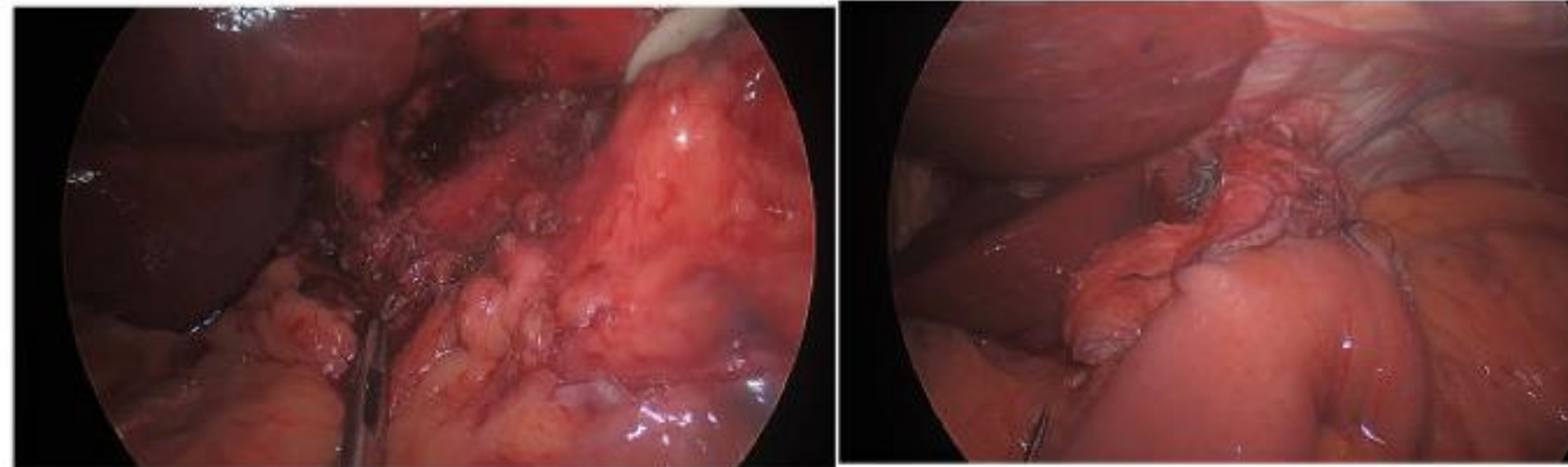


Figure 4. Laparoscopic repair of recurrent hiatal hernia with cruroplasty and hiatal proceed mesh, placement of percutaneous endoscopic jejunostomy tube

DISCUSSION

Management of recurrent hiatal hernia after RYGB is challenging and optimal repair strategies are undefined. Traditional methods include non-absorbable crural closure, mesh reinforcement, and esophageal pexy. This case introduces PEJ-assisted Roux limb pexy as an adjunctive fixation strategy in high-risk patients.

Figure 3. Post-operative CT abdomen/pelvis with recurrent complex hiatal hernia with multiple loops of small bowel and her gastrojejunostomy anastomosis above the level of the diaphragm

CONCLUSION

Recurrent hiatal hernia after Roux-en-Y gastric bypass is rare and technically challenging. In high-risk patients with multiple recurrences, PEJ-assisted Roux limb pexy may provide an adjunctive method of fixation to reduce herniation and obstruction.