Robotic Transversus Abdominis Muscle Release Post Open Transduodenal Ampullectomy

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INTRODUCTION

- Minimally invasive incisional hernia repair has allowed for faster and smoother recovery postoperatively.
- Robotic Transversus abdominis release (TAR) is often utilized in patients with complex hernia and a wide defect to close with less tension.
- We demonstrate in this poster our approach to complex incisional hernia defects utilizing robotic transversus abdominis muscle release (TAR) technique.

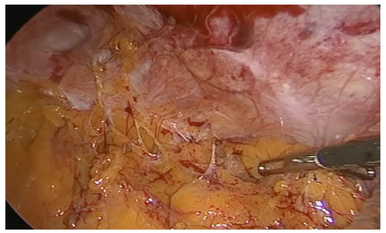
PATIENT AND METHODS

- A case of a 64-year-old male status post open transduodenal ampullectomy for an ampullary lesion that was noted to be benign on final pathology.
- Past medical history: type 2 diabetes mellitus, hypertension, dyslipidemia, and obesity with a BMI of 38.1 Kg/m2 at the time of the index surgery.
- The patient developed an incisional hernia six months postoperatively after strenuous physical activity.
- Cross-sectional imaging showed a 4x5 cm incisional hernia defect containing small bowel.

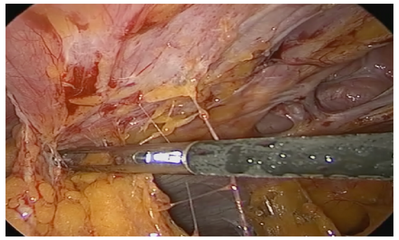


- The operative time was around 388 minutes.
- Estimated blood loss of 25 mL.
- The patient was ambulating out of bed on post-operative day 0 and was discharged home on post-operative day 2.

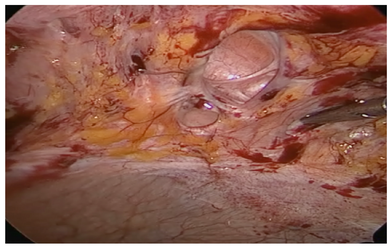
RESULTS



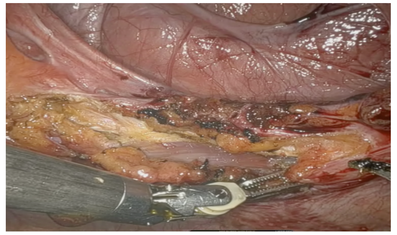
A. Diagnostic Laparoscopy- Adhesions To Abdominal Wall



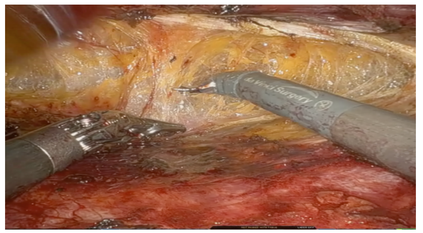
B. Extensive Adhesiolysis



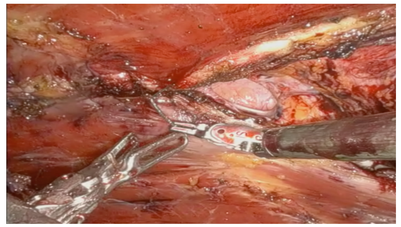
C. Swiss Cheese Defects Noted Along Upper Midline Incision



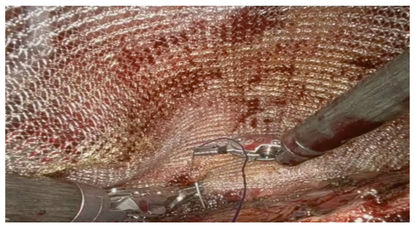
D. Posterior Rectus Sheath Was Opened And Neuromuscular Bundle Was Exposed



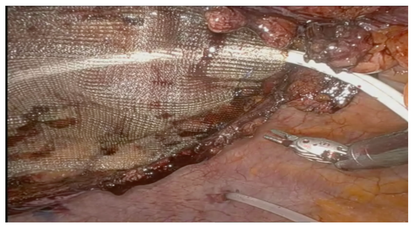
E. Transversus Abdominis Muscle Was Released - Same Done On Contralateral Side



F. Anterior Rectus Sheath Was Approximated Using Absorbable Suture



G. Polypropylene Mesh Sutured To The Anterior Rectus Sheath



H. Placement Of A Drain Anterior To The Mesh



I. Posterior Rectus Sheath Approximated With Absorbable Suture In A Continous Fashion

CONCLUSION

- Performing robotic transversus abdominis muscle release hernia repair for complex incisional hernia is feasible.
- The implementation of minimally invasive surgery allows for enhanced recovery after surgery and early discharge.