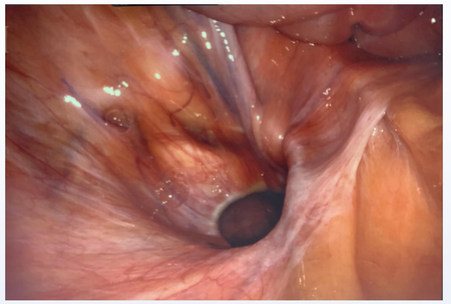
Retrospective Outcomes Analysis of Combined Robotic Assisted Inguinal Hernia Repair and Prostatectomy

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Introduction

- Inguinal hernias are a common occurrence in patients undergoing prostatectomy, with anywhere from 10-30% incidence reported
- Both inguinal hernias and prostatectomy are routinely addressed in a robotic fashion, and while working in a similar operative field, both have the potential to be addressed during the same surgery
- A few small retrospective studies have been completed looking at combined robotic prostatectomy and inguinal hernia repair, overall no significant increase in complications were noted and only a small increase in OR time was reported in one study
- The aim of this study is to review overall outcomes and feasibility of combined robotic prostatectomy and inguinal hernia repair at our institution with a single urologist and single general surgeon, adding to the growing body of data

Methods

- This study was an IRB approved retrospective outcomes analysis evaluating concomitant robotic inguinal hernia repair and prostatectomy between 2017 and 2020 at a single community hospital
- Cases reviewed were performed by a single general surgeon and single urologist
- A total of 8 patients were included, all repairs were performed in a similar transabdominal preperitoneal fashion with Covidien ProGrip™ mesh
- Data regarding age, hernia type, combined time in OR, length of stay, and complications noted at post-operative office visits were analyzed

Age	Side/Hernia	Mesh	Time in OR	Length of Stay	Notes
62	Right (Direct)	15x10cm ProGrip	213 minutes	1 day	
69	Right (Indirect/Direct)	15x10cm ProGrip	214 minutes	1 day	Recurrent, prior open Prolene repair
63	Left (Direct) Right (Direct)	15x10cm ProGrip (Bilateral)	265 minutes	1 day	Small defect, large sac with large omentum within
71	Left (Direct)	16x12cm ProGrip	220 minutes	1 day	Left sided seroma post op
56	Right (Recurrent Direct)	15x10cm ProGrip	239 minutes	1 day	Recurrent (3 prior repairs – open, lap, open)
69	Left (Indirect) Right (Femoral)	6x12cm ProGrip (Left) 15x10cm ProGrip (Right)	224 minutes	1 day	Left large hernia with sigmoid colon; post op seroma
55	Left (Direct) Right (Direct)	15x10cm ProGrip (Bilateral)	208 minutes	1 day	
71	Left (Indirect)	15x10cm ProGrip	244 minutes	1 day	Recurrent (robotic, sigmoid containing under mesh)
64.5 years			**228.4 minutes**	**1 day**	

Results

- A basic statistical analysis was performed on eight patients undergoing robotic assisted prostatectomy with pre-operatively identified inguinal hernias
- Three right sided inguinal hernia repairs, two left sided inguinal hernia repairs, and three bilateral inguinal hernia repairs
- Three cases were recurrent hernia repairs
- Average age was 64.5 years (55-71 years)
- Mean time in OR was 228.4 minutes (208-265 minutes)
- Length of stay for all cases was one day
- Two patients had postoperative seromas, both of which resolved by the second follow up appointment
- No post operative infections

Conclusions

- Concomitant robotic prostatectomy and inguinal hernia repair with mesh is a feasible surgical option with minimal complications
- All patients were appropriate for discharge on post operative day one
- The only post operative complication was seroma formation in 25% of patients (two of eight), which were all resolved at subsequent follow up visits
- This case series demonstrates that the combined approach is safe and easily performed in appropriate patients which can avoid the cost and complications of multiple separate procedures

References

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