A SINGLE-CENTER COMPARISON OF OUTCOMES IN ROBOTIC VENTRAL AND FLANK HERNIA REPAIRS

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PURPOSE

- To compare length of stay (LOS) and 30-day recurrence among robotic flank and ventral hernias at our tertiary care institution

INTRODUCTION

- Flank hernias are uncommon abdominal wall hernias with an incidence of 17%
- Literature related to outcomes of robotic repair of flank hernias is limited

METHODS

- A retrospective review of all flank hernias from 2019-2024 was performed
- Flank hernias were size matched to ventral hernias
- Patient data collected from medical record regarding demographics
- Differences in LOS and 30 day recurrence by ventral and flank repairs were examined using t-test (continuous variables) and Fisher's exact test (categorical variables)

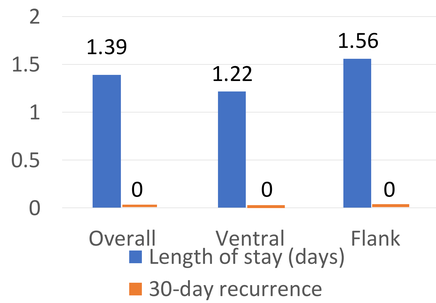
RESULTS

- Total of 18 patients were identified; 9 in each arm
- No statistically significant difference in comorbidities
- Robotic-assisted transabdominal preperitoneal approach
- Mean LOS not significantly different between groups
- No 30-day recurrences in either group

DEMOGRAPHICS

	Ventral (N=9)	Flank (N=9)
	N (%), median [interquartile range]	
Age	45.00 [15.00]	46.00 [25.00]
Male	4 (44.44)	2 (22.22)
BMI	33.62 [8.35]	30.90 [6.90]
Smoking	0 (0.00)	3 (33.33)
Hypertension	4 (44.44)	6 (66.67)
Hyperlipidemia	2 (22.22)	2 (22.22)
Chronic Obstructive Pulmonary Disease	1 (11.11)	2 (22.22)
Coronary Artery Disease	1 (11.11)	0 (0.00)
Recurrent Hernia	0 (0.00)	33.33 (3)
Defect width (cm)	6.4 (4.79)	5.8 (2.91)
Mesh size (cm^2)	225 [150, 1050]	180 [108, 484]

OUTCOMES



CONCLUSION

- LOS and recurrence of robotic repairs of flank hernias is comparable to robotic ventral hernia repair
- Our study is limited by the small sample size
- Long-term follow-up and larger, representative sample is needed to assess durability of robotic flank hernia repairs

REFERENCES

- Zhou DJ, Carlson MA. Incidence, etiology, management, and outcomes of flank hernia: review of published data. Hernia. 2018 Apr;22(2):353-361. doi: 10.1007/s10029-018-1740-1. Epub 2018 Jan 27. PMID: 29380158.

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