

## BACKGROUND

- Standard-length discharge (SLD) following robotic-assisted laparoscopic prostatectomy (RALP) is 1-2 days
- Several high-volume centers began offering same-day discharge (SDD), but the safety of this approach on a wider scale remains to be determined
- We compared 30-day outcomes of SDD (LOS=0) versus SLD (LOS=1-2) in a national cohort of patients

## METHODS

- We reviewed patients who underwent RALP in the American College of Surgeons National Surgical Quality Improvement Program (NSQIP) database from 2015 to 2017
- We performed a matched pair analysis, comparing SDD to SLD. Patients were matched on age, race, body mass index (BMI), and ASA score
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## RESULTS

- We identified 157 SDD cases (LOS=0) and 22,108 SLD cases (LOS=1-2) during the 3-year period
- 458 SLD cases were selected based on matched age, BMI, ASA and race (Table 1)
- SDD vs. SLD had similar outcomes for: reoperation (1.3% vs. 0.9% p=0.6458), readmission (3.9% vs. 3.3% p=0.7984), discharge-to-home (98.1% vs. 99.3% p=0.173) and Clavien complications (p=1.0)
- Operative time was significantly shorter in SDD cases (184.6 vs 213 min., p = 0.0001) (Table 2).

**Table 1. Matched Pairs Analysis**

	Same Day	1-2 Days	p-value
	N = 155	N = 458	
<b>Age</b>	60.1 (7.1)	60.0 (7.0)	0.8767
<b>Body Mass Index</b>			0.9887
<18.5	0.0 (0%)	0.0 (0%)	
18.5 - 24.9	29 (18.71%)	84 (18.34%)	
25-29.9	67 (43.23%)	201 (43.89%)	
30+	59 (38.06%)	173 (37.77%)	
<b>ASA Score</b>			0.9527
1	6 (3.87%)	15 (3.28%)	
2	85 (54.84%)	254 (55.46%)	
3	62 (40%)	185 (40.39%)	
4	2 (1.29%)	4 (0.87%)	
<b>Race</b>			0.9823
Black or African American	27 (17.42%)	81 (17.69%)	
Native American/Asian/Pacific Islander	3 (1.94%)	7 (1.53%)	
Unknown/Not Reported	13 (8.39%)	36 (7.86%)	
White	112 (72.26%)	334 (72.93%)	

**Table 2. – Analysis of Outcomes Between the Matched Groups**

	Same Day	1-2 Days	p-value
	N = 155	N = 458	
<b>Operation Time (min)</b>	184.6 (85.9)	213.0 (77.8)	0.0001
<b>Clavien Dindo Complication</b>			1.00
0	150 (96.77%)	439 (95.85%)	
1	0 (0%)	2 (0.44%)	
2	3 (1.94%)	11 (2.4%)	
3	0 (0%)	1 (0.22%)	
4	2 (1.29%)	5 (1.09%)	
<b>Discharged Home</b>	152 (98.1%)	455 (99.3%)	0.173
<b>Reoperation</b>	2 (1.3%)	4 (0.9%)	0.6458
<b>Readmission (30 Day)</b>	6 (3.9%)	15 (3.3%)	0.7984

## DISCUSSION

- In a multi-institutional cohort of patients undergoing RALP, SDD (LOS=0) had similar 30-day outcomes compared to SLD (LOS=1-2)
- These findings demonstrate the safety of this approach and continued expansion in appropriately selected patients