

Flor et al. Ureteral stent in ureteroneocystostomy for vesicoureteral reflux: Analysis of the data from National Surgical Quality Improvement Program-Pediatrics

APPENDIX. Multivariate model outputs for stenting status and outcomes of ureteroneocystostomy

Supplementary Table 1. Emergency department visit (Yes vs. No)					
Variable	Level	Complete case analysis (n=2772)			p*
		OR	95% CI		
Stent status	Yes vs. No	1.47	1.15	1.87	0.0019
Sex (assigned at birth)	Male vs. Female	1.08	0.83	1.40	0.5657
Urologic comorbidity	Yes vs. No	1.40	1.09	1.82	0.0099
Prior VUR procedures	Yes vs. No	1.37	0.93	2.02	0.1073
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	0.80	0.41	1.60	0.533
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	0.60	0.31	1.19	0.1434
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS Only	1.38	0.86	2.21	0.1769
	Open only vs. Laparoscopic/MIS only	1.07	0.75	1.53	0.7067
Preoperative/intraoperative UTI	Yes vs. No	1.22	0.82	1.80	0.3308
ASA	ASA 2 vs. ASA 1	1.00	0.71	1.41	0.9944
	ASA 3 vs. ASA 1	1.21	0.77	1.91	0.4036
	ASA 4 vs. ASA 1	0.77	0.10	6.26	0.8099
Age (months)		0.997	0.994	1.000	0.0479

*p for logistic regression model presented.

Supplementary Table 2. Related readmission (Yes vs. No)					
Variable	Level	Complete case analysis (n=2772)			p*
		OR	95% CI		
Stent status	Yes vs. No	2.52	1.61	3.95	<0.0001
Sex (assigned at birth)	Male vs. Female	0.96	0.61	1.49	0.8484
Urologic comorbidity	Yes vs. No	1.69	1.10	2.59	0.0164
Prior VUR procedures	Yes vs. No	1.96	1.13	3.40	0.0171
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	0.69	0.23	2.04	0.4979
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	0.74	0.26	2.15	0.584
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS only	0.97	0.40	2.37	0.9518
	Open only vs. Laparoscopic/MIS only	1.15	0.61	2.15	0.6708
Preoperative/intraoperative UTI	Yes vs. No	1.44	0.79	2.63	0.2329
ASA	ASA 2 vs. ASA 1	0.62	0.37	1.06	0.0794
	ASA 3 vs. ASA 1	0.72	0.35	1.48	0.3712
	ASA 4 vs. ASA 1	Unable to estimate			
Age (months)		1.00	1.00	1.01	0.3558

*p for logistic regression model presented.

Flor et al. Ureteral stent in ureteroneocystostomy for vesicoureteral reflux: Analysis of the data from National Surgical Quality Improvement Program-Pediatrics

Supplementary Table 3. Unplanned procedure (Yes vs. No)					
Variable	Level	Complete case analysis (n=2772)			p*
		OR	95% CI		
Stent status	Yes vs. No	1.60	0.97	2.66	0.0671
Sex (assigned at birth)	Male vs. Female	1.37	0.83	2.26	0.2254
Urologic comorbidity	Yes vs. No	1.36	0.81	2.27	0.2476
Prior VUR procedures	Yes vs. No	1.81	0.94	3.52	0.0783
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	0.39	0.13	1.18	0.0958
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	0.44	0.15	1.30	0.1384
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS only	1.09	0.44	2.70	0.8582
	Open only vs. Laparoscopic/MIS only	0.85	0.43	1.68	0.6411
Preoperative/intraoperative UTI	Yes vs. No	2.15	1.13	4.09	0.0193
ASA	ASA 2 vs. ASA 1	0.94	0.46	1.95	0.8751
	ASA 3 vs. ASA 1	1.75	0.75	4.11	0.1989
	ASA 4 vs. ASA 1	Unable to estimate			
Age (months)		1.00	1.00	1.01	0.5262

*p for logistic regression model presented.

Supplementary Table 4. Post-procedure UTI (Yes vs. No)					
Variable	Level	Complete case analysis (n=2772)			p*
		OR	95% CI		
Stent status	Yes vs. No	2.73	1.72	4.34	<0.0001
Sex (assigned at birth)	Male vs. Female	0.75	0.46	1.21	0.2337
Urologic comorbidity	Yes vs. No	1.99	1.29	3.08	0.0019
Prior VUR procedures	Yes vs. No	1.10	0.55	2.22	0.7903
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	1.38	0.32	6.01	0.6714
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	1.30	0.31	5.57	0.7202
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS only	1.03	0.48	2.20	0.9437
	Open only vs. Laparoscopic/MIS only	0.61	0.35	1.09	0.0929
Preoperative/Intraoperative UTI	Yes vs. No	1.69	0.94	3.05	0.0803
ASA	ASA 2 vs. ASA 1	1.05	0.56	1.97	0.8832
	ASA 3 vs. ASA 1	1.08	0.47	2.46	0.8571
	ASA 4 vs. ASA 1	2.99	0.34	26.07	0.3216
Age (months)		0.99	0.99	1.00	0.0239

*p for logistic regression model presented.

Flor et al. Ureteral stent in ureteroneocystostomy for vesicoureteral reflux: Analysis of the data from National Surgical Quality Improvement Program-Pediatrics

Supplementary Table 5. Operation time					
Variable	Level	Complete case analysis (n=2772)			p*
		Mean difference	95% CI		
Stent status	Yes vs. No	30.89	25.31	36.47	<0.0001
Sex (assigned at birth)	Male vs. Female	9.68	3.58	15.78	0.0019
Urologic comorbidity	Yes vs. No	34.67	28.24	41.10	<0.0001
Prior VUR procedures	Yes vs. No	19.45	9.41	29.49	0.0001
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	-19.30	-37.80	-0.80	0.0409
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	-12.36	-30.66	5.94	0.1854
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS only	23.29	12.14	34.45	<0.0001
	Open only vs. laparoscopic/MIS only	-2.03	-9.89	5.82	0.6117
Preoperative/intraoperative UTI	Yes vs. No	15.97	5.93	26.00	0.0018
ASA	ASA 2 vs. ASA 1	8.79	0.99	16.60	0.0273
	ASA 3 vs. ASA 1	27.35	16.32	38.37	<0.0001
	ASA 4 vs. ASA 1	29.76	-13.99	73.52	0.1824
Age (months)		0.33	0.25	0.40	<0.0001

* p for linear regression model presented.

Supplementary Table 6. Length of hospital stay					
Variable	Level	Complete case analysis (n=2763)			p*
		RR	95% CI		
Stent status	Yes vs. No	1.37	1.29	1.47	<0.0001
Sex (assigned at birth)	Male vs. Female	1.17	1.09	1.25	<0.0001
Urologic comorbidity	Yes vs. No	1.19	1.11	1.28	<0.0001
Prior VUR procedures	Yes vs. No	1.22	1.10	1.35	0.0002
Reflux severity	VCUG Grade 2 or 3 or RNC Grade 2 vs. VCUG Grade 1 or RNC Grade 1	0.75	0.62	0.91	0.0039
	VCUG Grade 4 or 5 or RNC Grade 3 vs. VCUG Grade 1 or RNC Grade 1	0.79	0.65	0.96	0.0156
Type of procedure	Laparoscopic/MIS and Open vs. Laparoscopic/MIS only	1.36	1.20	1.54	<0.0001
	Open only vs. Laparoscopic/MIS only	1.06	0.97	1.17	0.2034
Preoperative/Intraoperative UTI	Yes vs. No	1.26	1.13	1.40	<0.0001
ASA	ASA 2 vs. ASA 1	1.13	1.02	1.24	0.0149
	ASA 3 vs. ASA 1	1.90	1.69	2.15	<0.0001
	ASA 4 vs. ASA 1	4.37	3.04	6.27	<0.0001
Age (months)		1.002	1.001	1.003	<0.0001

* p for binominal regression model presented.