

Appendix 1 to Arulanandam B, Dorais M, Li P, et al. The burden of waiting: wait times for pediatric surgical procedures in Quebec and compliance with national benchmarks. *Can J Surg* 2021.

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Appendix 1: P-CATS Benchmark wait times¹³

Condition	Patient age at diagnosis	Benchmark Wait Time 1	Benchmark Wait Time 2
Inguinal hernia	Less than 1 yo	<1 week	<3 weeks
	Greater than 1yo	<6 weeks	<3 months
Cryptorchidism	Less than 1 yo	<6 months	<12 months
	Greater than 1yo	<3 months	<3 months
Hypospadias	Less than 1 yo	<6 months	<12 months
	Greater than 1yo	<3 months	<6 months

Appendix 2: Univariate Analysis Results

Univariable Analysis for Meeting WT1 Benchmark

Condition	Effect	Odds Ratio (OR) Estimate	OR 95% Confidence Limits		P-value
All	Age at surgery (yrs)	0.94	0.91	0.97	<.0001
	Rurality CA vs CMA	0.79	0.54	1.14	0.207
	Rurality Rural vs CMA	1.07	0.76	1.50	0.716
	SES Quintile 2 vs 1	0.97	0.68	1.39	0.871
	SES Quintile 3 vs 1	0.91	0.62	1.32	0.608
	SES Quintile 4 vs 1	1.00	0.67	1.49	0.998
	SES Quintile 5 vs 1	1.15	0.78	1.69	0.479
	Number of Specialist Visits 2+ vs 1	1.03	0.74	1.43	0.878
	Surgeon Specialty Urology vs General Surgery	0.99	0.76	1.29	0.917
	PCP Pediatrician vs Family Physician	1.55	1.20	2.02	0.001

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Inguinal Hernia	Age at surgery (yrs)	0.95	0.91	0.99	0.008
	Rurality CA vs CMA	0.74	0.46	1.21	0.233
	Rurality Rural vs CMA	0.91	0.58	1.42	0.672
	SES Quintile 2 vs 1	1.01	0.65	1.57	0.963
	SES Quintile 3 vs 1	1.05	0.65	1.69	0.832
	SES Quintile 4 vs 1	1.08	0.64	1.81	0.782
	SES Quintile 5 vs 1	1.15	0.72	1.85	0.557
	Number of Specialist Visits 2+ vs 1	0.83	0.49	1.40	0.484
	Surgeon Specialty Urology vs General Surgery	0.35	0.09	1.40	0.137
	PCP Pediatrician vs Family Physician	1.39	1.00	1.92	0.048
Cryptorchidism	Age at surgery (yrs)	0.93	0.88	0.98	0.009
	Rurality CA vs CMA	0.87	0.46	1.64	0.667
	Rurality Rural vs CMA	1.32	0.73	2.41	0.362
	SES Quintile 2 vs 1	0.92	0.48	1.75	0.796
	SES Quintile 3 vs 1	0.98	0.49	1.98	0.956
	SES Quintile 4 vs 1	0.91	0.45	1.82	0.787
	SES Quintile 5 vs 1	1.24	0.61	2.51	0.559
	Number of Specialist Visits 2+ vs 1	1.07	0.65	1.77	0.780
	Surgeon Specialty Urology vs General Surgery	0.27	0.14	0.54	<.001
	PCP Pediatrician vs Family Physician	2.35	1.40	3.94	0.001
Hypospadias	Age at surgery (yrs)	0.83	0.70	0.97	0.023
	Rurality CA vs CMA	0.51	0.13	1.98	0.332
	Rurality Rural vs CMA	0.77	0.21	2.80	0.687
	SES Quintile 2 vs 1	0.71	0.13	4.04	0.703

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	SES Quintile 3 vs 1	0.19	0.04	0.84	0.029
	SES Quintile 4 vs 1	0.48	0.08	2.79	0.411
	SES Quintile 5 vs 1	0.64	0.09	4.53	0.657
	Number of Specialist Visits 2+ vs 1	0.58	0.20	1.71	0.325
	Surgeon Specialty Urology vs General Surgery	5.73	0.89	37.10	0.067
	PCP Pediatrician vs Family Physician	1.01	0.37	2.81	0.981

Univariable Analysis for Meeting WT2 Benchmark

Condition	Effect	Odds Ratio (OR) Estimate	OR 95% Confidence Limits		P-value
All	Age at surgery (yrs)	0.97	0.94	0.99	0.010
	Rurality CA vs CMA	1.19	0.85	1.65	0.312
	Rurality Rural vs CMA	0.98	0.75	1.29	0.889
	SES Quintile 2 vs 1	0.98	0.73	1.31	0.868
	SES Quintile 3 vs 1	1.19	0.87	1.65	0.277
	SES Quintile 4 vs 1	0.86	0.62	1.19	0.354
	SES Quintile 5 vs 1	0.97	0.71	1.32	0.821
	Number of Specialist Visits 2+ vs 1	1.17	0.89	1.54	0.262
	Surgeon Specialty Urology vs General Surgery	0.62	0.50	0.77	<.0001
	PCP Pediatrician vs Family Physician	0.88	0.71	1.09	0.253
Inguinal Hernia	Age at surgery (yrs)	0.97	0.94	1.01	0.132
	Rurality CA vs CMA	2.10	1.23	3.57	0.006
	Rurality Rural vs CMA	1.43	0.94	2.17	0.093

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	SES Quintile 2 vs 1	0.92	0.61	1.38	0.689
	SES Quintile 3 vs 1	1.18	0.76	1.85	0.464
	SES Quintile 4 vs 1	0.79	0.50	1.24	0.298
	SES Quintile 5 vs 1	0.97	0.63	1.48	0.879
	Number of Specialist Visits 2+ vs 1	1.22	0.73	2.02	0.452
	Surgeon Specialty Urology vs General Surgery	3.46	0.42	28.27	0.246
	PCP Pediatrician vs Family Physician	0.83	0.62	1.11	0.210
Cryptorchidism	Age at surgery (yrs)	0.96	0.92	1.00	0.076
	Rurality CA vs CMA	0.89	0.54	1.46	0.636
	Rurality Rural vs CMA	0.78	0.51	1.18	0.232
	SES Quintile 2 vs 1	1.10	0.68	1.79	0.702
	SES Quintile 3 vs 1	1.15	0.68	1.93	0.611
	SES Quintile 4 vs 1	0.92	0.54	1.56	0.761
	SES Quintile 5 vs 1	0.97	0.59	1.61	0.910
	Number of Specialist Visits 2+ vs 1	1.54	1.06	2.24	0.023
	Surgeon Specialty Urology vs General Surgery	0.91	0.62	1.32	0.611
	PCP Pediatrician vs Family Physician	0.87	0.61	1.24	0.436
Hypospadias	Age at surgery (yrs)	0.84	0.73	0.97	0.015
	Rurality CA vs CMA	0.60	0.19	1.84	0.369
	Rurality Rural vs CMA	1.13	0.38	3.35	0.825
	SES Quintile 2 vs 1	0.89	0.29	2.76	0.838
	SES Quintile 3 vs 1	1.71	0.55	5.35	0.353
	SES Quintile 4 vs 1	1.83	0.47	7.12	0.382
	SES Quintile 5 vs 1	1.07	0.28	4.05	0.925

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	Number of Specialist Visits 2+ vs 1	2.72	0.93	8.00	0.069
	Surgeon Specialty Urology vs General Surgery	3.19	0.51	20.03	0.216
	PCP Pediatrician vs Family Physician	0.90	0.39	2.10	0.812