

Appendix II - Full model coefficients from multivariable models depicted in Table 2 for the peripheral nerve block cohort; ORs for binary variables, for continuous outcomes exponentiated coefficients from the log model depicting % change compared to reference.

	Total Oral Morphine Equivalents**			D0 Oral Morphine Equivalents**			D1 Oral Morphine Equivalents**			D1+ Oral Morphine Equivalents**			Length of Hospital Stay**			Cost of Hospitalization**		
	% change	95% CI		% change	95% CI		% change	95% CI		% change	95% CI		% change	95% CI		% change	95% CI	
Age*	-1.68	-1.76	-1.59	-1.04	-1.14	-0.95	-2.30	-2.42	-2.18	-1.77	-1.91	-1.63	0.66	0.59	0.72	0.03	-0.07	0.13
Sex																		
Female	0.12	-1.09	1.35	-0.20	-1.58	-1.19	-4.50	-6.16	-2.81	0.53	-1.57	2.67	6.38	5.43	7.35	-0.85	-2.25	0.57
Male [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Race																		
White [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black	2.22	-0.03	4.51	-0.94	-3.40	1.59	-2.87	-5.91	0.27	7.75	3.77	11.88	10.76	8.97	12.59	3.38	0.74	6.09
Other	-2.25	-4.63	0.20	-2.50	-5.19	0.27	-5.84	-9.15	-2.41	-0.06	-4.17	4.22	5.55	3.65	7.49	-1.13	-3.94	1.76
Charlson-Deyo Index*	2.49	1.71	3.28	0.67	-0.20	1.55	1.19	0.08	2.31	6.27	4.90	7.65	6.57	5.97	7.17	2.77	1.86	3.69
Substance Use/Abuse	5.84	3.50	8.23	4.56	1.95	7.24	8.45	5.06	11.95	6.72	2.74	10.86	1.98	0.32	3.67	0.36	-2.22	3.01
Pain Conditions	8.12	6.42	9.84	5.08	3.21	6.98	12.00	9.49	14.57	7.85	4.99	10.79	-0.07	-1.23	1.11	-0.08	-1.91	1.79
Psychiatric Conditions	8.91	7.33	10.51	4.11	2.40	5.85	11.85	9.53	14.21	12.12	9.38	14.92	4.71	3.58	5.84	1.07	-0.64	2.81
Year of Procedure																		
2013 [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	-3.73	-5.48	-1.95	-6.66	-8.59	-4.69	0.63	-2.02	3.34	-0.49	-3.47	2.59	-4.41	-5.69	-3.11	-2.99	-5.06	-0.88
2015	-8.57	10.27	-6.83	-8.53	10.47	-6.56	-1.40	-4.03	1.30	-10.66	13.43	-7.80	-10.84	12.06	-9.59	-2.27	-4.40	-0.09
2016	-11.96	13.65	-10.24	-9.18	11.16	-7.16	-3.78	-6.42	-1.07	-15.71	18.44	12.90	-17.58	18.75	16.41	-4.12	-6.27	-1.92
General Anesthesia	9.68	6.63	12.82	16.82	13.12	4	-0.06	-3.94	3.98	2.91	-1.90	7.95	4.15	2.04	6.31	1.20	-2.12	4.63
Neuraxial Anesthesia	-6.61	-8.81	-4.35	-11.42	13.80	-8.99	-3.38	-6.62	-0.03	-4.02	-7.78	-0.10	-0.63	-2.36	1.12	-3.37	-6.05	-0.61
NSAIDs Use	-0.17	-1.53	1.20	4.99	3.38	6.63	-9.88	11.63	-8.10	-1.35	-3.63	0.97	-3.60	-4.56	-2.62	-1.74	-3.30	-0.17
Cox-2 Inhibitor Use	-7.53	-8.83	-6.21	-4.41	-5.93	-2.86	-10.05	11.86	-8.20	-10.71	12.86	-8.52	-6.35	-7.32	-5.36	-1.50	-3.12	0.15
Ketamine Use	5.98	3.34	8.69	4.51	1.56	7.53	4.51	0.81	8.34	6.41	1.92	11.12	0.56	-1.29	2.44	1.15	-1.78	4.17
Gabapentenoinds Use	0.33	-1.17	1.85	-1.61	-3.28	0.08	1.50	-0.67	3.72	4.42	1.79	7.12	1.29	0.18	2.42	1.01	-0.75	2.81
IV Acetaminophen Use	6.77	4.91	8.66	6.68	4.58	8.83	2.83	0.26	5.46	5.54	2.43	8.75	0.61	-0.68	1.92	2.09	0.02	4.21
Patient Controlled Analgesia Use	57.78	53.10	62.58	99.51	92.80	7	21.77	16.57	27.21	9.04	3.75	14.61	4.38	2.10	6.71	0.27	-3.19	3.86
Liposomal Bupivacaine Use	-9.31	-11.08	-7.50	-7.56	-9.60	-5.48	-7.43	-9.98	-4.81	-7.59	10.77	-4.31	-8.79	10.10	-7.46	2.19	-0.13	4.57

Insurance Type																			
Commercial [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicaid	0.64	-2.95	4.36	-0.97	-4.96	3.19	-4.65	-9.45	0.42	7.46	1.09	14.24	5.81	3.01	8.67	-0.14	-4.28	4.17	
Medicare	2.44	0.80	4.11	0.47	-1.36	2.33	2.53	0.19	4.93	3.33	0.52	6.22	1.94	0.74	3.17	-0.93	-2.78	0.95	
Uninsured	-1.09	-12.66	12.02	-1.66	14.49	13.09	-1.39	17.20	17.45	7.30	13.44	33.00	2.90	-6.12	12.78	4.25	-9.96	20.70	
Unknown	4.20	0.70	7.82	3.69	-0.24	7.78	0.80	-4.00	5.83	6.76	0.67	13.24	4.74	2.14	7.41	-0.59	-4.47	3.46	
Hospital Location																			
Rural	7.52	-10.06	28.53	8.82	14.02	37.73	2.14	14.18	21.57	-2.61	19.39	17.66	0.72	-8.58	10.97	-0.44	24.29	30.94	
Urban [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospital Size																			
Small (<300 beds) [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium (300-499 beds)	-1.36	-17.05	17.30	-7.42	26.49	16.60	-2.03	17.35	16.13	2.88	14.32	23.53	5.50	-3.95	15.88	0.88	22.67	31.61	
Large (≥500 beds)	17.47	-5.33	45.76	20.85	-9.21	60.88	-0.24	19.15	23.08	9.71	12.59	37.70	6.25	-5.44	19.39	12.64	19.15	56.93	
Hospital Teaching Status																			
Non-Teaching	4.04	-11.49	22.30	-0.96	20.26	23.02	-2.04	16.51	14.94	-2.61	17.91	15.56	0.87	-7.58	10.09	6.84	16.65	36.96	
Teaching [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
# of Annual Procedures*	0.01	-0.02	0.04	0.02	-0.02	0.05	0.02	-0.01	0.05	0.00	-0.04	0.03	-0.02	-0.03	0.00	-0.01	-0.05	0.04	

Rural	1.06	0.56	2.00	1.26	0.69	2.30	1.32	0.73	2.40	1.01	0.54	1.89	1.33	0.70	2.53	0.95	0.47	1.93
Urban [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospital Size																		
Small (<300 beds) [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium (300-499 beds)	0.64	0.32	1.31	1.04	0.53	2.01	1.00	0.54	1.86	0.61	0.30	1.24	0.85	0.41	1.75	0.86	0.41	0.81
Large (≥500 beds)	1.36	1.26	1.47	1.13	1.04	1.23	1.34	1.20	1.49	1.09	1.00	1.19	1.14	1.02	1.28	1.34	1.20	1.50
Hospital Teaching Status																		
Non-Teaching	0.76	0.45	1.30	0.75	0.45	1.24	0.93	0.58	1.50	0.79	0.46	1.34	0.77	0.44	1.33	0.87	0.49	1.53
Teaching [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
# of Annual Procedures*	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*variable entered into model as continuous

**continuous outcomes; exponentiated coefficients from the log model depicting % change compared to reference.

"Other Complications" includes postoperative bradycardia, rash or itching, fall from bed, or "drugs causing adverse effects with therapeutic use"

OR: Odds ratio

D0: Day of surgery

D1: Postoperative day 1

D1+: Postoperative day 2 and following

CI: Confidence interval

NSAIDs: Nonsteroidal antiinflammatory drugs

Cox-2: Cyclooxygenase-2