

Supplemental Digital Content 4. Full model coefficients from multivariable models depicted in Table 3 for hip arthroplasties; 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*	-1.39	-1.42	-1.35	-0.89	-0.93	-0.85	-1.90	-1.95	-1.86	-1.51	-1.57	-1.45	0.50	0.47	0.52	0.00	-0.03	0.02
Sex																		
Female	0.16	-0.46	0.77	-1.94	-2.63	-1.25	-4.20	-4.97	-3.42	5.21	4.10	6.34	6.27	5.83	6.71	-0.04	-0.50	0.43
Male [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Race																		
White [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black	2.37	1.12	3.64	-1.46	-2.83	-0.08	-1.75	-3.30	-0.17	9.33	7.10	11.59	8.93	8.03	9.83	2.00	1.06	2.95
Hispanic	-2.49	-6.58	1.77	-4.66	-9.26	0.17	0.52	-5.21	6.60	-1.91	-8.44	5.09	4.81	1.85	7.87	2.03	-1.20	5.37
Other	-3.51	-4.60	-2.40	-1.71	-2.99	-0.41	-1.15	-2.64	0.38	-2.46	-4.34	-0.54	1.84	1.07	2.62	0.02	-0.84	0.88
Insurance Type																		
Commercial [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicaid	11.33	9.45	13.24	4.02	2.04	6.04	9.43	7.09	11.83	22.18	18.79	25.66	10.62	9.36	11.88	2.73	1.42	4.05
Medicare	3.85	3.01	4.70	1.90	0.97	2.84	2.80	1.73	3.89	6.87	5.39	8.36	4.10	3.54	4.67	0.22	-0.39	0.84
Uninsured	6.29	2.61	10.10	2.56	-1.46	6.75	6.71	1.97	11.66	12.67	6.23	19.51	8.06	5.54	10.65	1.89	-0.79	4.64
Unknown	5.13	3.21	7.10	2.61	0.49	4.78	4.00	1.56	6.49	11.90	8.40	15.51	5.45	4.15	6.77	0.29	-1.10	1.69
Hospital Location																		
Rural	1.53	-9.17	13.47	-2.55	-15.68	12.64	3.39	-7.35	15.36	3.62	-7.20	15.71	5.63	-0.56	12.20	11.63	-0.56	25.29
Urban [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospital Size																		
Small (<300 beds) [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium (300-499 beds)	-1.92	-11.59	8.81	-2.32	-14.73	11.91	-0.19	-9.82	10.47	-1.33	-10.84	9.20	2.30	-3.27	8.18	-3.46	-13.39	7.60
Large (≥500 beds)	4.28	-9.20	19.77	1.47	-15.33	21.59	3.74	-9.32	18.70	8.68	-4.94	24.26	5.07	-2.47	13.19	8.75	-5.93	25.72
Hospital Teaching Status																		
Non-Teaching	-1.23	-10.48	8.99	1.50	-10.78	15.47	-5.18	-13.89	4.40	-3.19	-12.05	6.56	-2.81	-7.83	2.48	-2.08	-11.64	8.52
Teaching [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
# of Annual Procedures*	-0.02	-0.05	0.01	0.00	-0.04	0.03	-0.02	-0.05	0.01	-0.03	-0.06	0.00	-0.04	-0.05	-0.02	-0.03	-0.06	0.00
Year of Procedure																		
2006 [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	-2.93	-4.57	-1.27	-2.39	-4.29	-0.44	-6.16	-8.30	-3.98	-3.90	-6.51	-1.21	-2.76	-3.86	-1.64	1.09	-0.19	2.39
2008	-3.46	-5.09	-1.81	-2.67	-4.56	-0.73	-6.52	-8.64	-4.36	-8.35	-10.85	-5.79	-5.36	-6.44	-4.28	-2.23	-3.47	-0.97
2009	-4.87	-6.43	-3.30	0.54	-1.35	2.47	-9.37	-11.36	-7.33	-13.74	-16.02	-11.39	-8.74	-9.74	-7.73	-2.78	-3.97	-1.57
2010	-6.04	-7.55	-4.50	2.08	0.18	4.01	-12.32	-14.23	-10.38	-18.95	-21.08	-16.76	-12.22	-13.16	-11.25	-5.11	-6.26	-3.94
2011	-7.37	-8.85	-5.86	2.24	0.35	4.17	-12.10	-14.01	-10.17	-23.35	-25.36	-21.29	-14.89	-15.80	-13.96	-6.34	-7.48	-5.20

2012	-7.07	-8.55	-5.56	3.86	1.94	5.80	-10.54	-12.47	-8.58	-25.26	-27.22	-23.24	-17.39	-18.27	-16.49	-9.96	-11.05	-8.85
2013	-8.88	-10.35	-7.39	2.59	0.69	4.53	-10.97	-12.90	-9.00	-27.49	-29.43	-25.52	-21.19	-22.04	-20.32	-11.36	-12.44	-10.26
2014	-13.07	-14.48	-11.65	-0.13	-1.98	1.76	-13.07	-14.96	-11.15	-30.54	-32.40	-28.62	-25.90	-26.71	-25.09	-13.61	-14.66	-12.55
2015	-15.43	-16.79	-14.04	-0.43	-2.28	1.45	-15.25	-17.08	-13.38	-35.33	-37.09	-33.52	-30.81	-31.56	-30.05	-13.09	-14.14	-12.01
2016	-19.77	-21.10	-18.41	-3.84	-5.68	-1.97	-18.88	-20.68	-17.03	-38.11	-39.88	-36.29	-35.06	-35.78	-34.33	-13.71	-14.79	-12.63
General Anesthesia	17.89	16.73	19.05	27.46	26.04	28.90	1.85	0.55	3.16	4.57	2.83	6.33	2.49	1.81	3.17	2.85	2.08	3.62
Neuraxial Anesthesia	-12.33	-13.22	-11.42	-19.92	-20.85	-18.97	-1.51	-2.83	-0.17	-2.19	-3.88	-0.48	-2.17	-2.85	-1.50	-1.06	-1.82	-0.29
Patient Controlled Analgesia	62.34	60.67	64.03	94.57	92.28	96.86	37.55	35.66	39.46	6.09	4.31	7.91	3.79	3.08	4.52	-1.06	-1.83	-0.28
Multimodal Use																		
Opioids Only [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+ 1 Mode	-2.14	-3.09	-1.18	-0.06	-1.18	1.07	-6.89	-8.08	-5.69	-6.82	-8.29	-5.33	-3.64	-4.27	-3.01	-0.04	-0.77	0.70
+ 2 Modes	-6.93	-7.90	-5.96	-2.16	-3.32	-0.97	-12.96	-14.15	-11.76	-12.43	-13.93	-10.90	-7.41	-8.05	-6.76	-1.07	-1.85	-0.29
+ 2+ Modes	-12.53	-13.52	-11.55	-5.83	-7.05	-4.61	-18.47	-19.67	-17.25	-18.43	-19.96	-16.86	-12.15	-12.80	-11.48	-2.09	-2.92	-1.25
Hypertension, Uncomplicated	3.27	2.61	3.94	1.70	0.95	2.44	3.32	2.45	4.19	3.92	2.78	5.07	1.17	0.74	1.61	0.22	-0.26	0.71
Hypertension, Complicated	3.04	0.20	5.97	2.53	-0.69	5.85	1.78	-1.86	5.56	5.57	0.73	10.65	3.94	2.00	5.91	1.23	-0.89	3.39
Obesity	5.99	5.12	6.86	2.44	1.50	3.40	5.19	4.08	6.31	9.89	8.38	11.43	4.48	3.91	5.06	2.36	1.73	2.99
Congestive Heart Failure	5.86	3.83	7.94	-0.35	-2.53	1.88	2.74	0.13	5.42	20.48	16.65	24.42	20.60	19.04	22.18	10.06	8.47	11.68
Valvular Disease	0.14	-1.38	1.69	0.66	-1.10	2.44	-1.81	-3.83	0.25	3.30	0.61	6.05	5.34	4.26	6.43	2.53	1.36	3.72
Pulmonary Circulation Disorders	10.25	6.50	14.13	-0.06	-3.94	3.98	4.01	-0.67	8.91	31.52	24.25	39.22	29.29	26.33	32.33	14.37	11.44	17.40
Peripheral Vascular Disorders	1.92	-0.06	3.93	-0.14	-2.34	2.12	1.31	-1.28	3.96	6.28	2.83	9.85	5.58	4.20	6.98	2.57	1.06	4.09
Paralysis	6.19	0.77	11.90	2.49	-3.43	8.77	-6.62	12.93	0.15	22.83	12.57	34.03	30.03	25.55	34.68	11.07	6.78	15.53
Other Neurological Disorders	0.85	-1.20	2.94	-0.18	-2.49	2.18	-1.55	-4.19	1.15	5.76	2.15	9.48	13.95	12.39	15.53	5.38	3.77	7.03
Chronic Pulmonary Disease	7.04	6.13	7.95	2.45	1.47	3.44	8.09	6.91	9.29	12.65	11.05	14.26	4.61	4.02	5.21	2.27	1.61	2.92
Diabetes, Uncomplicated	5.09	4.17	6.02	2.35	1.34	3.38	5.61	4.41	6.83	6.92	5.35	8.51	4.15	3.54	4.77	1.89	1.22	2.57
Diabetes, Complicated	5.59	2.82	8.44	0.94	-2.06	4.04	5.77	2.18	9.49	11.12	6.29	16.15	10.98	9.02	12.99	5.38	3.29	7.52
Hypothyroidism	0.99	0.12	1.87	0.56	-0.42	1.56	0.84	-0.31	2.00	1.26	-0.23	2.76	0.82	0.23	1.40	0.52	-0.13	1.18
Renal Failure	1.52	-1.30	4.41	-1.64	-4.74	1.57	0.43	-3.18	4.17	4.17	-0.64	9.21	8.26	6.24	10.33	3.91	1.73	6.14
Liver Disease	6.52	3.39	9.75	1.71	-1.67	5.22	5.80	1.82	9.93	11.24	5.86	16.88	3.55	1.49	5.64	0.92	-1.32	3.22
Peptic Ulcer Disease	16.43	-5.97	44.15	15.80	-9.07	47.49	20.61	-8.69	59.30	9.46	-22.75	55.08	8.44	-6.05	25.16	10.20	-6.14	29.37
AIDS/HIV	5.06	-4.16	15.17	1.81	-8.33	13.09	6.77	-5.12	20.14	4.75	-10.01	21.93	6.75	0.37	13.54	0.17	-6.52	7.33
Lymphoma	-4.21	-9.10	0.94	-3.02	-8.68	2.98	-6.47	-12.84	0.37	-0.14	-8.59	9.09	3.31	-0.25	7.01	3.51	-0.51	7.68
Metastatic Cancer	16.59	8.48	25.32	3.77	-4.42	12.66	18.46	7.56	30.47	43.98	27.74	62.30	24.28	18.41	30.46	17.64	11.43	24.21
Solid Tumor without Metastasis	-6.80	-10.59	-2.85	-3.70	-8.16	0.99	-9.94	-14.79	-4.81	-9.31	-15.49	-2.68	5.32	2.42	8.30	3.51	0.31	6.80
Rheumatoid Arthritis	-1.82	-3.34	-0.29	-1.61	-3.33	0.14	-3.15	-5.10	-1.17	-1.50	-4.04	1.09	2.56	1.49	3.63	1.31	0.13	2.51
Coagulopathy	4.28	2.17	6.44	0.78	-1.54	3.15	0.25	-2.44	3.01	14.50	10.62	18.53	15.51	13.93	17.10	13.67	11.93	15.43
Fluid and Electrolyte Disorders	6.01	4.84	7.19	0.07	-1.18	1.34	2.40	0.91	3.90	18.47	16.32	20.66	21.77	20.88	22.68	9.62	8.71	10.54
Blood Loss Anemia	4.35	1.73	7.03	1.19	-1.69	4.16	3.62	0.21	7.14	10.64	6.14	15.33	10.05	8.19	11.94	5.55	3.55	7.58
Weight Loss	10.27	5.29	15.49	-3.17	-8.13	2.07	2.53	-3.57	9.01	44.85	34.33	56.19	51.54	46.92	56.31	28.42	24.02	32.96
Deficiency Anemia	3.82	2.87	4.78	0.72	-0.33	1.79	3.18	1.92	4.45	9.39	7.72	11.09	7.00	6.34	7.66	3.70	2.98	4.43
Alcohol Abuse	0.45	-3.17	4.21	-2.05	-6.05	2.12	-4.52	-8.93	0.10	9.15	2.67	16.04	18.05	15.18	20.99	6.64	3.73	9.63

Drug Abuse	7.62	3.17	12.27	2.57	-2.21	7.58	7.72	2.14	13.61	13.20	5.49	21.47	3.01	0.12	5.97	1.26	-1.92	4.54
Psychoses	3.31	0.95	5.72	0.37	-2.22	3.03	3.88	0.86	7.00	6.71	2.69	10.88	8.96	7.29	10.67	3.06	1.28	4.87
Depression	3.34	1.83	4.88	1.67	-0.01	3.39	3.99	2.03	5.99	3.28	0.73	5.89	0.35	-0.64	1.35	0.64	-0.47	1.76
History of Substance Use/Abuse	7.67	6.62	8.74	4.06	2.91	5.23	11.52	10.12	12.94	9.03	7.24	10.85	-0.60	-1.25	0.06	-0.35	-1.09	0.39
Pain Conditions	12.05	11.09	13.03	7.72	6.66	8.78	14.67	13.38	15.97	16.15	14.45	17.87	1.73	1.14	2.32	0.07	-0.58	0.73
Psychiatric Comorbidities	7.41	6.07	8.77	3.05	1.60	4.53	9.53	7.76	11.33	11.94	9.57	14.37	4.17	3.30	5.05	1.23	0.28	2.20
Opioid Use Disorder	30.64	21.63	40.31	20.96	11.57	31.13	33.16	21.70	45.72	37.38	22.18	54.47	6.04	1.07	11.25	1.90	-3.45	7.55

	Respiratory Complications			Gastrointestinal Complications			CNS Complications			Genitourinary Complications			Other Complications		
	OR	95% CI		OR	95% CI		OR	95% CI		OR	95% CI		OR	95% CI	
Age*	1.02	1.01	1.02	1.01	1.01	1.02	1.09	1.08	1.10	1.04	1.03	1.04	1.02	1.01	1.02
Sex															
Female	1.05	0.96	1.15	1.03	0.96	1.11	0.83	0.73	0.94	0.36	0.33	0.38	1.20	1.10	1.32
Male [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Race															
White [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black	0.91	0.76	1.10	0.86	0.73	1.01	0.89	0.66	1.20	0.89	0.76	1.04	1.03	0.86	1.25
Hispanic	1.30	0.80	2.14	1.28	0.81	2.01	0.90	0.36	2.27	0.88	0.48	1.60	1.15	0.67	1.97
Other	1.06	0.91	1.23	0.99	0.86	1.13	1.00	0.81	1.24	0.89	0.78	1.02	1.05	0.90	1.23
Insurance Type															
Commercial [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicaid	1.12	0.87	1.44	0.83	0.65	1.06	1.49	0.94	2.37	0.90	0.70	1.15	0.73	0.55	0.98
Medicare	1.18	1.05	1.34	1.01	0.91	1.12	1.35	1.10	1.67	1.16	1.05	1.28	1.02	0.91	1.16
Uninsured	1.20	0.70	2.05	0.79	0.47	1.32	1.44	0.53	3.96	0.89	0.53	1.50	0.60	0.31	1.17
Unknown	1.35	1.03	1.77	1.00	0.78	1.27	1.34	0.79	2.27	1.00	0.78	1.29	0.89	0.65	1.22
Hospital Location															
Rural	1.01	0.75	1.38	1.06	0.81	1.38	1.27	0.94	1.71	0.95	0.70	1.28	1.09	0.82	1.46
Urban [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospital Size															
Small (<300 beds) [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium (300-499 beds)	0.83	0.64	1.07	1.02	0.82	1.28	0.94	0.74	1.20	1.03	0.80	1.32	0.95	0.75	1.20
Large (≥500 beds)	0.79	0.57	1.09	0.90	0.68	1.20	0.99	0.74	1.34	0.94	0.68	1.29	0.92	0.69	1.24
Hospital Teaching Status															
Non-Teaching	0.87	0.68	1.11	0.85	0.69	1.05	0.88	0.70	1.11	0.81	0.64	1.02	0.91	0.73	1.14
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
Year of Procedure															
2006 [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	1.01	0.81	1.26	0.94	0.78	1.13	1.10	0.79	1.53	1.08	0.87	1.34	0.95	0.76	1.19
2008	0.92	0.73	1.16	0.81	0.67	0.99	1.12	0.81	1.56	0.99	0.80	1.23	1.06	0.85	1.32
2009	0.96	0.77	1.20	0.79	0.65	0.95	1.02	0.74	1.41	1.00	0.81	1.23	1.03	0.83	1.27
2010	1.04	0.84	1.29	0.73	0.60	0.88	1.00	0.73	1.38	1.21	0.99	1.48	1.03	0.84	1.28
2011	0.95	0.76	1.17	0.82	0.68	0.98	1.05	0.77	1.44	1.25	1.02	1.53	0.99	0.80	1.23
2012	0.92	0.74	1.14	0.85	0.71	1.02	1.01	0.74	1.39	1.31	1.07	1.60	1.03	0.84	1.28
2013	0.83	0.67	1.03	0.80	0.66	0.96	0.86	0.62	1.19	1.43	1.18	1.74	0.87	0.70	1.08
2014	0.84	0.68	1.05	0.94	0.79	1.13	0.82	0.60	1.14	1.51	1.24	1.84	0.83	0.67	1.04

2015	0.64	0.51	0.80	0.96	0.80	1.14	0.82	0.59	1.13	1.61	1.32	1.96	0.64	0.51	0.81
2016	0.52	0.41	0.66	0.64	0.53	0.78	0.84	0.61	1.17	1.60	1.31	1.96	0.27	0.20	0.36
General Anesthesia	1.10	0.97	1.26	1.04	0.93	1.16	1.09	0.92	1.28	1.26	1.12	1.41	0.93	0.81	1.05
Neuraxial Anesthesia	0.88	0.77	1.01	1.07	0.96	1.20	0.96	0.80	1.15	0.76	0.67	0.85	1.06	0.93	1.22
Patient Controlled Analgesia	1.06	0.93	1.20	1.19	1.07	1.34	0.99	0.82	1.19	1.08	0.96	1.21	1.05	0.92	1.20
Multimodal Use															
Opioids Only [ref]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+ 1 Mode	0.95	0.84	1.07	0.84	0.76	0.94	1.03	0.86	1.22	0.87	0.79	0.97	0.97	0.86	1.09
+ 2 Modes	0.97	0.85	1.10	0.78	0.70	0.88	1.05	0.87	1.26	0.89	0.79	0.99	0.84	0.73	0.96
+ 2+ Modes	0.81	0.70	0.94	0.74	0.65	0.84	0.94	0.76	1.16	0.79	0.70	0.89	0.70	0.60	0.82
Hypertension, Uncomplicated	1.07	0.98	1.18	0.96	0.89	1.04	1.13	0.98	1.30	1.06	0.98	1.14	0.92	0.83	1.01
Hypertension, Complicated	0.91	0.67	1.23	0.95	0.71	1.27	1.08	0.72	1.62	1.20	0.93	1.54	1.22	0.87	1.70
Obesity	1.57	1.42	1.74	1.13	1.03	1.25	1.02	0.85	1.21	0.94	0.85	1.03	1.14	1.02	1.28
Congestive Heart Failure	1.93	1.65	2.26	1.07	0.89	1.30	1.41	1.14	1.76	1.27	1.09	1.48	1.73	1.43	2.09
Valvular Disease	1.12	0.95	1.33	1.10	0.93	1.29	1.10	0.89	1.37	1.06	0.92	1.22	1.35	1.14	1.60
Pulmonary Circulation Disorders	2.72	2.17	3.40	1.20	0.88	1.63	1.63	1.15	2.31	1.31	0.99	1.72	1.74	1.29	2.35
Peripheral Vascular Disorders	1.34	1.11	1.62	1.17	0.96	1.42	1.29	1.01	1.63	1.14	0.97	1.34	1.27	1.02	1.58
Paralysis	1.66	0.98	2.82	1.05	0.59	1.88	1.82	0.96	3.46	1.91	1.26	2.90	1.43	0.77	2.66
Other Neurological Disorders	1.18	0.93	1.49	0.94	0.74	1.19	2.54	2.02	3.18	1.34	1.11	1.61	1.08	0.83	1.41
Chronic Pulmonary Disease	2.09	1.90	2.29	1.14	1.04	1.26	1.20	1.03	1.39	1.05	0.96	1.15	1.01	0.90	1.13
Diabetes, Uncomplicated	1.17	1.05	1.31	1.02	0.92	1.13	1.31	1.13	1.52	1.06	0.97	1.16	1.08	0.96	1.22
Diabetes, Complicated	1.41	1.10	1.81	1.16	0.89	1.50	1.58	1.14	2.19	1.40	1.13	1.72	1.31	0.97	1.79
Hypothyroidism	1.13	1.01	1.26	0.99	0.90	1.10	1.02	0.88	1.19	1.10	1.00	1.21	0.99	0.88	1.12
Renal Failure	1.45	1.07	1.96	1.29	0.97	1.71	1.34	0.90	2.00	1.18	0.92	1.52	0.88	0.62	1.24
Liver Disease	0.97	0.67	1.39	1.02	0.73	1.44	1.03	0.59	1.80	0.94	0.68	1.30	0.86	0.57	1.32
Peptic Ulcer Disease	0.95	0.08	11.10	0.75	0.07	8.65	0.90	0.03	28.66	0.42	0.01	12.83	1.03	0.09	11.75
AIDS/HIV	1.94	0.68	5.54	0.65	0.14	3.00	2.85	0.50	16.16	1.03	0.32	3.25	1.30	0.36	4.77
Lymphoma	1.04	0.55	1.97	0.96	0.55	1.69	1.08	0.48	2.42	0.76	0.44	1.33	1.05	0.55	2.03
Metastatic Cancer	1.24	0.57	2.71	0.84	0.39	1.81	1.14	0.38	3.38	1.34	0.71	2.54	1.40	0.61	3.19
Solid Tumor without Metastasis	1.21	0.76	1.93	1.25	0.84	1.87	1.10	0.61	1.99	1.03	0.72	1.48	0.70	0.38	1.29
Rheumatoid Arthritis	1.00	0.82	1.22	0.91	0.76	1.09	1.15	0.88	1.52	0.87	0.72	1.05	0.90	0.72	1.12
Coagulopathy	1.68	1.40	2.03	1.20	0.98	1.46	1.39	1.07	1.82	1.34	1.14	1.58	1.37	1.09	1.71
Fluid and Electrolyte Disorders	2.51	2.27	2.78	2.61	2.38	2.86	2.39	2.08	2.75	1.89	1.72	2.07	2.02	1.80	2.27
Blood Loss Anemia	1.37	1.04	1.79	1.33	1.04	1.69	1.46	1.02	2.09	1.13	0.88	1.45	1.35	1.02	1.78
Weight Loss	1.82	1.28	2.59	2.35	1.74	3.18	1.67	1.08	2.58	1.31	0.92	1.86	1.30	0.83	2.01
Deficiency Anemia	1.21	1.08	1.34	1.29	1.17	1.42	1.28	1.10	1.48	1.19	1.08	1.30	1.33	1.19	1.49
Alcohol Abuse	1.11	0.74	1.67	1.10	0.74	1.65	1.77	1.08	2.93	1.48	1.06	2.06	0.99	0.65	1.50
Drug Abuse	1.01	0.59	1.71	1.33	0.83	2.13	2.72	1.48	5.00	0.89	0.51	1.54	1.09	0.66	1.78
Psychoses	1.16	0.90	1.50	1.23	0.97	1.57	2.14	1.59	2.87	1.34	1.07	1.68	1.41	1.09	1.82
Depression	1.09	0.91	1.30	0.82	0.69	0.97	1.24	0.98	1.55	1.01	0.86	1.18	0.80	0.66	0.97

History of Substance Use/Abuse	1.28	1.12	1.45	1.00	0.88	1.13	1.44	1.18	1.77	0.90	0.80	1.01	1.74	1.54	1.97
Pain Conditions	1.03	0.92	1.16	1.12	1.01	1.24	1.08	0.92	1.27	1.07	0.97	1.18	1.09	0.97	1.23
Psychiatric Comorbidities	1.25	1.06	1.46	1.02	0.89	1.18	1.69	1.38	2.07	1.21	1.06	1.38	1.34	1.14	1.58
Opioid Use Disorder	1.16	0.51	2.65	0.52	0.21	1.32	0.92	0.37	2.30	1.33	0.58	3.07	1.03	0.47	2.27

*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"