

Supplement Table S6: Patient and Case Characteristics, Outcome 'Taking Opioids at Three Months'

	Not Taking Opioids at 3- months	Taking Opioids at 3- months	SMD	Adjusted Odds Ratio (CI)
n	584	96		
Institution 1	24 (4%)	9 (9%)	0.529*	(Group Effect)
Institution 2	11 (2%)	2 (2%)		
Institution 3	82 (14%)	20 (21%)		
Institution 4	25 (4%)	1 (1%)		
Institution 5	41 (7%)	12 (13%)		
Institution 6	69 (12%)	6 (6%)		
Institution 7	70 (12%)	5 (5%)		
Institution 8	111 (19%)	20 (21%)		
Institution 9	52 (9%)	6 (6%)		
Institution 10	65 (11%)	7 (7%)		
Institution 11	34 (6%)	8 (8%)		
Age (years)	59±14	60±12	0.048	0.98 (0.82-1.08)
Sex Female	337 (58%)	58 (60%)	0.055	1.00 (0.81-1.27)
Sex Male	247 (42%)	38 (40%)		(Reference)
Race (Consolidated): White	451 (78%)	76 (79%)	0.070	(Reference)
Race (Consolidated): Not White	56 (10%)	10 (10%)		1.00 (0.76-1.36)
Race (Consolidated): No Response	73 (13%)	10 (10%)		0.97 (0.60-1.24)
Race - White	451 (78%)	76 (79%)	0.225*	
Race - Black or African American	33 (6%)	5 (5%)		
Race - Asian	8 (1%)	2 (2%)		
Race - Native Hawaiian / Other Pacific Islander	2 (0%)	0 (0%)		
Race - American Indian / Alaska Native	6 (1%)	2 (2%)		
Race - Other race	4 (1%)	1 (1%)		
Race - Multiple	3 (1%)	0 (0%)		
Race - Do not know	1 (0%)	1 (1%)		
Race - No Response	72 (12%)	9 (9%)		
Body Mass Index (kg/m²)	31±8	31±7	0.102	0.99 (0.80-1.14)
ASA Physical Status: I or II	317 (57%)	44 (47%)	0.199	(Reference)
ASA Physical Status: III or IV	242 (43%)	50 (53%)		0.99 (0.76-1.21)
ASA Physical Status - I	35 (6%)	1 (1%)	0.319*	
ASA Physical Status - II	282 (50%)	43 (46%)		
ASA Physical Status - III	236 (42%)	49 (52%)		
ASA Physical Status - IV	6 (1%)	1 (1%)		
Relationship: Not a Couple (n=677)	165 (28%)	34 (35%)	0.152	1.01 (0.81-1.28)
Relationship: Couple (n=582/96)	417 (72%)	62 (65%)		(Reference)
Relationship - Couple: Married	393 (68%)	55 (57%)	0.463*	
Relationship - Couple: Committed Relationship	24 (4%)	7 (7%)		
Relationship - Not a Couple: Widowed	41 (7%)	9 (9%)		
Relationship - Not a Couple: Divorced	56 (10%)	20 (21%)		
Relationship - Not a Couple: Never Married / Single	54 (9%)	3 (3%)		
Relationship - Not a Couple: Separated	9 (2%)	2 (2%)		
Relationship - No Response	5 (1%)	0 (0%)		
Occupation: Employed	231 (40%)	12 (13%)	0.657*	(Reference)
Occupation: Not Employed	347 (60%)	84 (88%)		1.57 (0.96-4.4)
Occupation - Employed: Full-time employed	187 (32%)	11 (12%)	0.817*	
Occupation - Employed: Part-time employed	41 (7%)	1 (1%)		
Occupation - Employed: Multiple	3 (1%)	0 (0%)		
Occupation - Not Employed: Retired	232 (40%)	41 (43%)		
Occupation - Not Employed: Homemaker	27 (5%)	6 (6%)		
Occupation - Not Employed: Unemployed	19 (3%)	5 (5%)		
Occupation - Not Employed: On disability	49 (9%)	25 (26%)		
Occupation - Not Employed: On Leave of Absence	8 (1%)	5 (5%)		
Occupation - Not Employed: Full-time student	7 (1%)	0 (0%)		
Occupation - No Response	5 (1%)	2 (2%)		
Preoperative Taking Opioids	62 (11%)	73 (76%)	1.758*	18.6 (10.3-34.5) #

Preoperative Taking Opioids (No)	522 (89%)	23 (24%)		(Reference)
Preoperative Taking Non-Opioid Analgesics (n=679)	189 (32%)	43 (45%)	0.257*	1.00 (0.80-1.24)
Preoperative Taking Non-Opioid Analgesics (No)	395 (68%)	53 (55%)		(Reference)
Preoperative Anxiety Score	49±9	53±10	0.357*	1.01 (0.93-1.14)
Preoperative Depression Score	46±8	51±11	0.497*	1.03 (0.95-1.20)
Preoperative Physical Function Score	30±8	39±9	1.043*	1.26 (1.01-1.53) [#]
Preoperative Pain Last Week at Surgical Site (n=662)	247 (44%)	73 (77%)	0.721*	1.01 (0.81-1.37)
Preoperative Pain Last Week at Surgical Site (No) (n=566/95)	319 (56%)	22 (23%)		(Reference)
Surgery Type - Total Hip	42 (7%)	12 (13%)	0.718*	0.99 (0.71-1.29)
Surgery Type - Knee Replacement	47 (8%)	15 (16%)		1.15 (0.89-2.94)
Surgery Type - Spine Surgery	78 (13%)	32 (33%)		1.03 (0.84-1.46)
Surgery Type - Open Thoracic	19 (3%)	1 (1%)		0.99 (0.62-1.45)
Surgery Type - Mastectomy	38 (7%)	5 (5%)		1.11 (0.84-2.86)
Surgery Type - Abdominal Surgery	360 (62%)	31 (32%)		(Reference)
General Anesthesia (n=668)	529 (92%)	83 (87%)	0.165	0.99 (0.72-1.32)
General Anesthesia (No)	44 (8%)	12 (13%)		(Reference)
Neuraxial Anesthesia (n=668)	137 (24%)	28 (30%)	0.126	1.05 (0.87-1.66)
Neuraxial Anesthesia (No)	436 (76%)	67 (71%)		
Anesthesia Duration (minutes) (n=668)	237±139	266±140	0.212*	1.08 (0.99-1.23)
Intraoperative Parenteral Morphine Equivalent	26±20	31±26	0.210*	1.04 (0.96-1.20)
Intraoperative Non-Opioid Analgesics Administered	523 (90%)	86 (90%)	0.001	0.97 (0.63-1.22)
Intraoperative Non-Opioid Analgesics Not Administered	61 (10%)	10 (10%)		(Reference)

n (% of reported), Mean ± Standard Deviation (n)

n = 680 unless noted

* |Standardized Mean Difference| > 0.2

[#]95% Odds Ratio CI does not cross the line of identity (one)

Anxiety, Depression, and Physical Function scores were collected using Patient-Reported Outcomes Measurement Information System Score forms (Physical Function short form 4a, Anxiety short form 4a, Depression short form 4a, as described in Cella D, Yount S, Rothrock N, Gershon R, Cook K, Reeve B, et al. The Patient-Reported Outcomes Measurement Information System (PROMIS): Progress of an NIH Roadmap Cooperative Group During its First Two Years. Med Care. 2007;45(5 Suppl 1):S3-S11. (ASA, American Society of Anesthesiologists)