

Supplemental Digital Content 1. Definitions of variables indicating history of substance use/abuse, pain conditions and psychiatric comorbidities

COVARIATE	ICD-9 CODES
History of Substance Use/Abuse	
Alcohol abuse	265.2, 291.1–291.3, 291.5–291.9, 303.0, 303.9, 305.0, 357.5, 425.5, 535.3, 571.0–571.3, 980.xx, V11.3
Drug Abuse	292.xx, 304.xx, 305.2–305.9, V65.42
Tobacco Use	305.1x; V15.82, 649.0x
Pain Conditions	
Back Pain	720.xx - 724.xx, 738.4x, 739.3x, 739.4x, 756.11, 756.12, 805.xx, 846.xx, 847.xx, 648.7x
Fibromyalgia and or pain	729.1
Migraine or other headache syndrome	346.xx, 339.0x-339.8x; 784.0x
Chronic Pain	338.0x (338.1x excluded), 338.2x, 338.4x
Rheumatoid Arthritis	714.xx
Solid tumor without metastasis	140.xx–172.xx, 174.xx–195.xx
Metastatic cancer	196.xx–199.xx
Lymphoma	200.xx–202.xx, 203.0, 238.6
Psychiatric Comorbidities	
Anxiety	300.0x, 300.2x, 300.3x, 308.0x
Depression	296.2, 296.3, 296.5, 300.4, 309.xx, 311
Dementia	290.xx, 294.1, 331.2
Personality Disorder	301.xx
Psychoses	293.8, 295.xx, 296.

Adopted from: *Ladha KS, Patorno E, Huybrechts KF, Liu J, Rathmell JP, Bateman BT: Variations in the Use of Perioperative Multimodal Analgesic Therapy. Anesthesiology 2016; 124: 837-4*