

## Supplementary Online Content

Brummett CM, Waljee JF, Goesling J, et al. New persistent opioid use after minor and major surgical procedures in US adults. *JAMA Surg*. Published online April 12, 2017.  
doi:10.1001/jamasurg.2017.0504

**eTable 1.** Inclusion categories with Current Procedural Terminology (CPT) and *International Classification of Diseases, Ninth Revision (ICD-9)* codes

**eTable 2.** Mental health disorders

**eTable 3.** Pain diagnoses

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** Inclusion categories with Current Procedural Terminology (CPT) and *International Classification of Diseases, Ninth Revision (ICD-9)* codes

<b>Minor Surgical Conditions</b>	<b>CPT Code</b>
Carpal tunnel release	64721
Parathyroidectomy or exploration of parathyroids	60500
Transurethral incision of the prostate	52480
Cholecystectomy with exploration of common duct	47564
Cholecystectomy with cholangiography	47563
Laparoscopy, surgical; cholecystectomy	47562
Laparoscopy, appendectomy	44970
Ligation, division and/or excision of varicose vein cluster(s)	37785
Ligation of hemorrhoid(s)	46221
Transurethral resection of the prostate	52601
Removal of thyroid	60240
Ligation of internal hemorrhoids; single procedure	46945
Ligation of internal hemorrhoids; multiple procedures	46946
Hemorrhoidectomy, external, complete	46250
Hemorrhoidectomy, internal and external, complete or extensive	46260
Hemorrhoidectomy, internal and external, simple; with fissurectomy	46257
Hemorrhoidectomy, internal and external, simple; with fistulectomy with or without fissurectomy	46258
Hemorrhoidectomy, internal and external, complex or extensive; with fissurectomy	46261
Hemorrhoidectomy, internal and external, complex or extensive; with fistulectomy, with or without fissurectomy	46262
Hemorrhoidectomy, internal and external, simple	46255
Transurethral resection of residual or regrowth of obstructive prostate tissue including control of postoperative bleeding, complete	52630

  

<b>Major Surgical Conditions</b>	<b>ICD9 Code</b>
(Laparoscopic) adjustment of size of adjustable gastric restrictive device	4498
Gastropexy	4464
Incisional hernia repair	5351
Laparoscopic procedures for creation of esophagogastric sphincteric competence	4467
Laparoscopic gastric restrictive procedure	4495
Laparoscopic incisional hernia repair with graft or prosthesis	5362
Laparoscopic repair of diaphragmatic hernia, abdominal approach	5371
Laparoscopic repair of diaphragmatic hernia, with thoracic approach	5383
Laparoscopic total intra-abdominal colectomy	4581
Laparoscopic gastroenterostomy	4438
Laparoscopic gastroplasty	4468
Laparoscopic supracervical hysterectomy [LSH]	6831
Laparoscopic total abdominal hysterectomy	6841
Laparoscopically assisted vaginal hysterectomy (LAVH)	6851
Laparoscopic vertical (sleeve) gastrectomy	4382
Open and other right hemicolectomy	4573
Open total intra-abdominal colectomy	4582
Other and open repair of diaphragmatic hernia, abdominal approach	5372
Other open incisional hernia repair with graft or prosthesis	5361
Other and open repair of diaphragmatic hernia, with thoracic approach	5384
Other and open repair of other hernia of anterior abdominal wall with graft or prosthesis	5369

Other and unspecified total intra-abdominal colectomy	4583
Other gastroenterostomy without gastrectomy	4439
Other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis	5363
Other procedures for creation of esophagogastric sphincteric competence	4466
Other and unspecified subtotal abdominal hysterectomy	6839
Other and unspecified total abdominal hysterectomy	6849
Other and unspecified hysterectomy	689
Repair of diaphragmatic hernia, abdominal approach, not otherwise specified	5375
Repair of other hernia of anterior abdominal wall	5359
Repair of diaphragmatic hernia with thoracic approach, not otherwise specified	5380

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**eTable 2.** Mental health disorders

<b>Mental Health Condition</b>	<b>Clinical Classification System code</b>
Adjustment disorder	650
Anxiety disorder	651
Attention deficit, conduct disorders	652
Impulse control disorders	656
Mood disorders	657
Personality disorders	658
Schizophrenia	659
Alcohol related disorders	660
Substance related disorders	661
Suicide and self-harm	662
Miscellaneous disorders	670

**eTable 3.** Pain diagnoses

<b>Pain Disorder Category</b>	<b>ICD9 Code</b>
Back	722.30, 722.32, 722.33, 722.70, 722.72, 722.73, 722.80, 722.82, 722.83, 722.90, 722.92, 722.93, 737.1, 737.3, 738.4, 738.5, 739.2, 739.3, 739.4, 756.10, 756.11, 756.12, 756.19, 805.4, 805.8, 839.2, 839.42, 846, 846.0, 847.1, 847.2, 847.3, 847.9, 721.3x - 721.9x, 722.2x, 724.xx, 756.13
Neck	721.0X, 721.1X, 722.0X, 722.31, 722.71, 722.81, 722.91, 723.XX, 839.0, 839.1, 847.0
Arthritis and joint pain	711.XX, 712.XX, 713.X, 714.XX, 715.XX, 716.XX, 717.XX, 718.XX, 719.XX, 725, 726.XX, 727.XX, 728.XX, 729.3X, 729.7X, 729.8X, 729.9X, 730.XX, 731.X, 732.X, 733.XX, 734, 735.X, 736.XX, 737.2X, 737.4X, 738.1X, 710, 710.1, 710.3, 710.4, 710.5, 710.8, 710.9, 729, 729.2, 729.4, 729.5, 729.6, 737, 737.8, 737.9, 738, 738.2, 738.3, 738.6, 738.7, 738.8, 738.9, 739, 739.1, 739.5, 739.6, 739.7, 739.8, 739.9
<b>Other Pain Disorders</b>	
TMJD	524.60, 524.61, 524.62, 524.63, 524.64, 524.69
Tension headache	307.81
Headache/head pain/suboccipital headache	784.0
Occipital neuralgia/headache	723.8
Tear film insufficiency, unspecified (dry eyes)	375.15
Myalgia and myositis, unspecified (Fibromyalgia)	729.1
Noncardiac or musculoskeletal chest pain	786.59
Dyskinesia of the esophagus	530.5
Functional bowel (includes IBS)	564.xx
Interstitial cystitis	595.1
Vulvodynia	625.7x
Endometriosis	617.x
Dyspepsia	536.8
Sicca syndrome	710.2
Tinnitus	388.3
Chronic fatigue syndrome	780.71
Migraine	346.00, 346.01, 346.02, 346.03, 346.10, 346.11, 346.12, 346.13, 346.20, 346.21, 346.22, 346.23, 346.30, 346.31, 346.32, 346.33, 346.40, 346.41, 346.42, 346.43, 346.50, 346.51, 346.52, 346.53, 346.60, 346.61, 346.62, 346.63, 346.70, 346.71, 346.72, 346.73, 346.80, 346.81, 346.82, 346.83, 346.90, 346.91, 346.92, 346.93
Insomnia	780.52

ICD9 = International Statistical Classification of Diseases and Related Health Problems, Ninth Edition.