

Supplementary Online Content

Seib CD, Rochefort H, Chomsky-Higgins K, et al. Association of patient frailty with increased morbidity after common ambulatory general surgery operations.

JAMA Surg. Published online October 11, 2017.

doi:10.1001/jamasurg.2017.4007

eTable 1. Frequency of Procedure *Current Procedural Terminology (CPT)* Codes

eTable 2. Number and Unadjusted Frequency of 30-Day Complications by NSQIP mFI Category in Patients After Ambulatory and 23-Hour-Stay Hernia, Breast, Thyroid, or Parathyroid Surgery in the 2007-2010 ACS NSQIP PUF

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

eTable 1. Frequency of Procedure *Current Procedural Terminology (CPT)* Codes

CPT Code	Description	n (%)
Hernia		
49505	Repair initial inguinal hernia, age 5 years or older; reducible	25,261 (17.9)
49507	Repair initial inguinal hernia, age 5 years or older; incarcerated or strangulated	1,438 (1.0)
49520	Repair recurrent inguinal hernia, any age; reducible	2,638 (1.9)
49521	Repair recurrent inguinal hernia, any age; incarcerated or strangulated	357 (0.3)
49525	Repair inguinal hernia, sliding, any age	650 (0.5)
49550	Repair initial femoral hernia, any age; reducible	497 (0.4)
49553	Repair initial femoral hernia, any age; incarcerated or strangulated	306 (0.2)
49555	Repair recurrent femoral hernia; reducible	49 (<0.1)
49557	Repair recurrent femoral hernia; incarcerated or strangulated	31 (<0.1)
49560	Repair initial incisional or ventral hernia; reducible	8,152 (5.8)
49561	Repair initial incisional or ventral hernia; incarcerated or strangulated	2,205 (1.6)
49565	Repair recurrent incisional or ventral hernia; reducible	1,545 (1.1)
49566	Repair recurrent incisional or ventral hernia; incarcerated or strangulated	453 (0.3)
49585	Repair umbilical hernia, age 5 years or older; reducible	11,512 (8.2)
49587	Repair umbilical hernia, age 5 years or older; incarcerated or strangulated	4,146 (2.9)
49650	Laparoscopy, surgical; repair initial inguinal hernia	7,521 (5.3)
49651	Laparoscopy, surgical; repair recurrent inguinal hernia	1,187 (0.8)
49652	Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia	1,382 (1.0)
49653	Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion, when performed); incarcerated or strangulated	498 (0.4)
49654	Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); reducible	965 (0.7)
49655	Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated	272 (0.2)
49656	Laparoscopy, surgical, repair, recurrent incisional hernia (includes mesh insertion, when performed); reducible	280 (0.2)
49657	Laparoscopy, surgical, repair, recurrent incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated	110 (<0.1)
Endocrine		
60210	Partial thyroid lobectomy, unilateral; with or without isthmusectomy	571 (0.4)
60212	Partial thyroid lobectomy, unilateral; with contralateral subtotal lobectomy, including isthmusectomy	95 (<0.1)
60220	Total thyroid lobectomy, unilateral; with or without isthmusectomy	3,806 (2.7)
60225	Total thyroid lobectomy, unilateral; with contralateral subtotal lobectomy, including isthmusectomy	333 (0.2)
60240	Thyroidectomy, total or complete	4,451 (3.2)
60252	Thyroidectomy, total or subtotal for malignancy; with limited neck dissection	568 (0.4)
60254	Thyroidectomy, total or subtotal for malignancy; with radical neck dissection	58 (<0.1)

60260	Thyroidectomy, removal of all remaining thyroid tissue following previous removal of a portion of thyroid	364 (0.3)
60271	Thyroidectomy, including substernal thyroid; cervical approach	224 (0.2)
60500	Parathyroidectomy or exploration of parathyroid(s)	7,147 (5.1)
60502	Parathyroidectomy or exploration of parathyroid(s); re-exploration	242 (0.2)
38720	Cervical lymphadenectomy (complete)	51 (<0.1)
38724	Cervical lymphadenectomy (modified radical neck dissection)	196 (0.1)
Breast		
19120	Excision of cyst, fibroadenoma, or other benign or malignant tumor, aberrant breast tissue, open	8,781 (6.2)
19125	Excision of breast lesion identified by preoperative placement of radiological marker, open	13,975 (9.9)
19300	Mastectomy for gynecomastia	292 (0.2)
19301	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy)	14,347 (10.2)
19302	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy); with axillary lymphadenectomy	3,509 (2.5)
19303	Mastectomy, simple, complete	4,667 (3.3)
19304	Mastectomy, subcutaneous	238 (0.2)
19305	Mastectomy, radical, including pectoral muscles, axillary lymph nodes	161 (0.1)
19306	Mastectomy, radical, including pectoral muscles, axillary and internal mammary lymph nodes	38 (<0.1)
19307	Mastectomy, modified radical, including axillary lymph nodes, with or without pectoralis minor but excluding pectoralis major muscle	2,919 (2.1)
19316	Mastopexy	321 (0.2)
19318	Reduction mammoplasty	937 (0.7)
19324	Mammoplasty, augmentation; without prosthetic implant	17 (<0.1)
19325	Mammoplasty, augmentation; with prosthetic implant	241 (0.2)
19328	Removal of intact mammary implant	101 (<0.1)
19330	Removal of mammary implant material	47 (<0.1)
19340	Immediate insertion of breast prosthesis following mastopexy, mastectomy, or in reconstruction	110 (<0.1)
19342	Delayed insertion of breast prosthesis following mastopexy, mastectomy or in reconstruction	299 (0.2)
19357	Breast reconstruction, immediate or delayed, with tissue expander, including subsequent expansion	267 (0.2)

eTable 2. Number and Unadjusted Frequency of 30-Day Complications by NSQIP mFI Category in Patients After Ambulatory and 23-Hour-Stay Hernia, Breast, Thyroid, or Parathyroid Surgery in the 2007-2010 ACS NSQIP PUF

Complication—no. (%)	All patients (n =140,828)	Low NSQIP mFI < 0.18 (n = 118,831)	Intermediate NSQIP mFI 0.18 – 0.35 (n = 21,036)	High NSQIP mFI > = 0.36 (n = 961)	<i>P</i> value
Pulmonary	166 (0.12)	100 (0.08)	55 (0.3)	11 (1.1)	<.001
Cardiac	51 (0.04)	29 (0.02)	21 (0.1)	1 (0.1)	<.001
Neurologic	53 (0.04)	30 (0.03)	19 (0.1)	4 (0.4)	<.001
Renal	41 (0.03)	19 (0.02)	19 (0.1)	3 (0.3)	<.001
Bleeding	13 (0.01)	6 (0.01)	6 (0.03)	1 (0.1)	.004
Sepsis	175 (0.12)	115 (0.1)	48 (0.2)	12 (1.3)	<.001
Surgical site infection					
Superficial	1,227 (0.87)	959 (0.81)	246 (1.2)	22 (2.3)	<.001
Deep incisional or organ space	367 (0.26)	280 (0.24)	81 (0.4)	6 (0.6)	<.001
Wound dehiscence	142 (0.1)	97 (0.08)	44 (0.2)	1 (0.1)	<.001
Urinary tract infection	362 (0.26)	256 (0.22)	92 (0.44)	14 (1.5)	<.001
Venous thromboembolism	142 (0.1)	111 (0.09)	30 (0.14)	1 (0.1)	0.14