Supplementary digital content 7. Total counts (obstructive sleep apnea and control patients) for specific surgeries, stratified by type of surgery.

Cardiac surgeries*

Procedure	Count
3 vessel coronary artery bypass graft	459
Aortic valve replacement	80
Mitral valve replacement	34
5 vessel coronary artery bypass graft	32
4 vessel coronary artery bypass graft	29
1 vessel coronary artery bypass graft	25
2 vessel coronary artery bypass graft	25
Ascending aortic aneurysm repair	10
6 or more vessel coronary artery bypass graft	\mathbf{S}^{\dagger}
Double cardiac valve replacement	S

*Cardiac surgeries are also categorized as major surgeries associated with a high risk of respiratory failure.

[†]Cell counts \leq 5 are suppressed as a privacy requirement of using the administrative database.

Major surgeries associated with a high risk of respiratory failure.

Procedure	Count	Procedure	Count
Ventral/ incisional hernia repair	204	Femoral-tibial artery bypass graft	10
Massive ventral/ incisional hernia repair	201	Intracranial arterial venous malformation	10
L	137	coiling	10
Partial colectomy	127	Suboccipital craniotomy for brain tumor	10
Carotid endarterectomy	94	Thyroid lobectomy	10
Anterior resection of colon	86	Craniotomy for evacuation of hematoma	9
Exploratory laparotomy	81	Ileostomy	9
Craniotomy for brain tumor	69	Pulmonary decortication	9
Abdominal aortic aneurysm repair	67	Recurrent ventral hernia (old)	9
Femoral popliteal artery bypass graft	49	Sterotactic surgery for intracranial biopsy	9
Small bowel resection	47	Colostomy	8
Initial revision and repair of epigastric		Ventriculoperitoneal shunt insertion	
hernia	39		8
Transabdominal hiatus hernia repair	25	Transjugular intrahepatic portosystemic	-
Control normous system unlisted or	35	shunt	7
Central nervous system unlisted or unusually complicated	29	Abdominal aortic aneurysm repair with aortofemoral graft	\mathbf{S}^{*}
Parathyroidectomy	2)	Abdominal aortic aneurysm repair with	5
	29	aortoiliac graft	S
Repair of incarcerated hernia without bowel		Cholecystectomy with exploration of	
resection	24	common bile duct	S
Wedge resection of lung	24	Closure of colostomy	S
Diagnostic laparoscopy followed by open		Closure of ileostomy by anastomosis	
abdominal operation	20		S
Lobectomy of lung	20	Debridement of sternum post cardiac	C
Abdominoperineal resection	20	surgery Transthoracic esophagectomy of lower third	S
Abdommopermearresection	15	of esophagus	S
Colectomy, total, with or without	15	Mediastinal tumor excision	5
anastomosis/ ostomy	15		S
Diaphragmatic hernia repair, not for gastric		Mikulicz procedure (double barreled	
reflux	15	ostomy)	S
Subtotal thyroidectomy	15	Pneumonectomy	S
Total thyroidectomy	1.5	Radiofrequency ablation of single liver	a
	15	tumor Deservatore in territoria deservitoria	S
Unilateral aorto- femoral bypass graft with femoral endarterectomy	10	Recurrent epigastric hernia repair	c
Aortobifemoral bypass graft	10	Repair of peripheral artery with prosthetic	S
Aonobienioral oypass gran	10	graft	S
Breast reconstruction with transversus	10	Repair of peripheral artery with suture	5
abdominis flap	10		S
Craniotomy for obliteration of aneurysm	10	Revision of ventriculoperitoneal shunt	S
Enterolysis in the absence of bowel		Small bowel fistula repair	
obstruction	10		S
Unilateral iliofemoral bypass graft	10	Subtotal gastrectomy	S
Thymectomy	10	Thoracotomy for postop bleeding	S
Exploratory thoracotomy	10	Tracheoplasty, intrathoracic	S
Femoral arteriotomy for removal of	10	Unilateral pulmonary lavage	~
embolus	10	I	S

*Cell counts \leq 5 are suppressed as a privacy requirement of using the administrative database.

Major surgeries associated with a low risk of respiratory failure.

Procedure [*]	Count	Procedure	Count
Knee arthroplasty	617	Temporomandibular joint arthrectomy	25
Hip arthroplasty	337	Ankle Arthrodesis	20
Total hysterectomy	285	ORIF radius and ulna	20
Total knee arthroplasty	259	ORIF tibia fibula	20
Appendectomy	207	Staging pelvic lymphadenectomy for	20
	193	prostate cancer	20
Shoulder arthroplasty		Submaxillary salivary gland tumor or	
	147	gland excision	20
Total hip arthroplasty		Subtotal radical hysterectomy, pelvic	
	107	lymphadenectomy	19
Caesarean section	104	Above knee amputation	17
Laminectomy	95	Appendectomy for perforated appendix	15
ORIF femur	84	Knee hemiarthroplasty	15
Radical nephrectomy		ORIF ankle, trimalleolar	
	66	ODUCI	15
Radical prostatectomy	58	ORIF tibia	15
Revision knee arthroplasty	57	Revision hip arthroplasty	15
Suprapubic urethral suspension (Marshall		Superficial parotid tumor resection	
Marschetti)	50		15
Vaginal hysterectomy	49	Laminotomy, removal of intervertebral	14
Tracheostomy		discs, thoracic Revision total hip arthroplasty	
ORIF bimalleolar ankle fracture	46	Bone graft to face for reconstruction	14
OKII [®] billianeolai alikle fracture	45	maxilla, unilateral	10
Below knee amputation	-5	Excisional biopsy of femur, humerus,	10
Delow kiec umpatation	43	pelvis, radius, skull, tibia or vertebrae	10
Hip arthroplasty, revision of one prosthesis		Laminectomy for lesion of spinal cord or	
only	43	meningnes	10
Knee arthroplasty revision	43	ORIF distal humerus	10
Posterior fusion of spine	43	ORIF tibial shaft	10
ORIF radius head or neck	39	Peritonsillar abscess drainage	10
ORIF talus		Radical bone resection for tumor NOT	
		maxilla, femur, humerus, pelvis, scapula	
	34	or tibia	10
Renal translplant	34	Shoulder hemiarthroplasty	10
ORIF humerus	32	Tibial osteotomy	10
Oophorectomy unilateral or bilateral,		Total parotidectomy with facial nerve	
complete or partial	30	dissection	10
Radical prostatectomy with staging	20	Tympanoplasty with mastoidectomy	10
lymphadenectomy ORIF shaft or supracondylar femur	30	Unicondylar knee arthroplasty	10
· ·	29		10
Salpingectomy +/- oophorectomy, one or both sides, not for sterilization	29	Total or unipolar hip arthropplasty	8
Non-burn dressing changes	29	Radical hysterectomy with pelvic	0
Tion burn dressing endiges	27	lymphadenectomy	7
Discectomy at more than one level	25	Rejection transplant nephrectomy	, 7
Nephrectomy	25	ORIF radial shaft	6
· · · · · · · · · · · · · · · · · · ·	23	I	0

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Multiple occurrences of similar or identical procedures are a reflection of changes in tariff numbers for a given procedure over time. ORIF: Open reduction and internal fixation. [†]Cell counts \leq 5 are suppressed as a privacy requirement of using the administrative database.

Minor surgeries associated with a high risk of respiratory failure.

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Procedure [*]	Count
Cholecystectomy	831
Umbilical hernia	387
Diagnostic laparoscopy	100
Suspension micro-laryngoscopy	60
Permanent pacemaker implantation	59
Bronchoscopy	40
Direct diagnostic laryngoscopy	32
Implanted cardiac defibrillator implantation	30
Mediastinoscopy +/- bronchoscopy/ esophagoscopy/	
gastroscopy	30
Stripping of long and short saphenous veins	30
Long or short saphenous vein stripping	20
Quadroscopy	18
Laryngoscopy and biopsy	15
Removal of peritoneal dialysis catheter	15
Axillary lymph node biopsy	10
Axillary dissection alone post breast surgery	10
Cervical lymph node biopsy	10
Implanted cardiac defibrillator testing	9
Pacemaker insertion	9
Anterior scalene lymph node dissection	\mathbf{S}^{\dagger}
Biopsy of temporal or other artery	S
Bronchoscopy with lung biopsy	S
Bronchoscopy with removal of foreign body	S
Finger amputation proximal	S
Implanted cardiac defibrillator replacement	S
Laryngoscopy with foreign body removal	S
Mediastinoscopy	S
Removal anal condylomata	S
Removal extensive anal condylomata	S
Sinusotomy, maxillary	S
Complete varicose vein stripping	S
Varicose vein surgery	S
	2

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Procedure [*]	Count	Procedure	Count
Cataract extraction	2259	Dental procedure	75
Knee meniscectomy	1064	Tendon sheath ganglion	75
Carpal tunnel release	680	Nephrolithotomy (kidney stone removal)	73
Uterine dilatation and curettage	424	Anal fistula resection	65
Knee arthrotomy (Foreign body,	121	Nasal polyp excision	05
osteochondritis)	424		60
Inguinal hernia repair	404	Ureterocele resection	60
Knee, hip or ankle arthroscopy	286	Modified radical mastectomy	59
Cystoscopy	247	Esophagogastroduodenoscopy	58
Hysteroscopy	215	Lumbar discectomy	57
Colonoscopy	214	Tubal ligation abdominal approach	55
Removal of vitreous body	190	Tympanoplasty	55
Transurethral resection of prostate	186	cystoscopy and urethroscopy	55
Ureteroscopy and stone manipulation	170	Incision and drainage of ischiorectal abscess	54
Reduction mammoplasty	159	Tendon release for tenosynovitis	50
Ureteroscopy	140	Ureteral stent insertion	50
Transurethral resection of bladder tumor		Excision of bone cyst, chondroma, exostosis	
	138	NOT long bones	47
Cardioversion	120	External ethmoidectomy	45
Breast biopsy	113	Strabismus surgery	45
Shoulder arthrotomy (Foreign body,		Subcutaneous mastectomy	
osteochondritis)	112		45
Hardware removal	106	Laceration repair	40
Retinal reattachment	105	Cystoscopy and transurethral resection of small bladder tumor < 0.5cm	38
Shoulder rotator cuff repair	105	Tunnelled catheter insertion	38
Removal of skin/ subcutaneous lesion	103	Abdominal lipectomy	38 37
Vasectomy	103	Incision and drainage perianal abscess	37
Circumcision	95	Insertion of permanent catheter for dialysis	37
Urethral sling repair, vaginal approach	95	Hydraulically operated erectile prosthesis,	57
oronnar sinig ropan, vaginar approach	94	insertion	35
Hemorrhoidectomy	93	Ruptured quadriceps insertion repair	35
Hysteroscopic endometrial ablation		Tendon ganglion/ lesion excision, digits	
	90	only	34
Transurethral resection of small bladder tumor		Suture/ excision of neuroma/ neurolysis	
	88	digital or cutaneous nerve	33
Anal fissurectomy	85	Keratoplasty, corneal transplant	32
Ulnar nerve transplantation	82	Trabeculectomy for glaucoma	32
Breast lumpectomy		Uterine dilatation and curettage for	
	80	spontaneous abortion	30
Dupuytren's contracture release	80	Knee manipulation under anesthesia	30
Myringotomy +/- Tympanostomy-tubes	70	Pilonidal cyst or sinus excision, packing or	20
	79	primary closure	30

Procedure	Count	Procedure	Count
Closure of defect up to 6cm ² on ears, eyelids,		Shoulder capsulorrhaphy for recurrent	
lips and nose	28	dislocation	20
Percutaneous Nephrostomy and stone	•	Split skin grafts up to 100cm ² , arms, legs,	20
manipulation	28	scalp, trunk	20
Incision and drainage of superficial localized infection, including pilonidal abscess	26	Toe amputation	20
Puncture aspiration of abscess or hematoma,	26	Urethral stricture dilation, male, initial	20
cutaneous	26	oretinal stricture dilation, male, initial	20
Achilles tendon repair	20 25	cystocele repair	20 20
Fistulization of lacrimal sac into nasal cavity	25 25	urethroscopy with urethrotomy	20 20
Hallux rigidus arthrectomy	23 25	uterine myomectomy, vaginal approach	20 20
Breast lumpectomy/ partial mastectomy for	23	Anal sphincterectomy	20
malignancy	25	Anar spinicterectomy	19
Spermatocele excision	25 25	Toe arthroplasty	19
Toe arthrodesis	23	Excision/ Closure of lesion <5cm on head,	10
	25	neck, gen, hands, feet	17
Arthroscopy large joint followed by arthrotomy	23 24	Local excision penile skin lesion	17
Colonoscopy and polypectomy	24	Muscle biopsy	17
Rhinophyma excision	24 24	Cystoscopy and urethral dilation male	16
Suture/ excision neuroma/ neurolysis of major	24	Ankle arthrotomy	10
nerve	24	A like a thiotomy	15
Transurethral sphincterotomy male	23	Bilateral ethmoidectomy and polypectomy	15
Hydraulic urinary sphincter for incontinence,	20	Excision of prepatellar bursa	10
insertion	21		15
Repair extensor tendon distal to wrist or ankle	21	Finger arthroplasty (1 joint)	15
Acromionectomy	20	Flexor tendon repair, single	15
Cystocele and rectocele repair	20	Hydrocele excision	15
Cystoscopy and needle biopsy of prostate	20 20	ORIF metacarpal	15
Cystoscopy and stone removal	20 20	Obliteration of sinuses intranasal	15
Diagnostic cystoscopy, subsequent	20 20	Partial excision of clavicle	15
Excision and repair of lesion on trunk, arms,	20	Tunneled central line	15
legs	20	rumered central fine	15
Excision of olecranon bursa	20	Endoscopic ureteric stent removal	14
Excision tunica vaginalis		Local flap repair axilla, face, feet, gen,	
č	20	hands, neck 6-19cm ²	14
Fasciotomy, radical, of hand	20	ORIF patella	14
Hydrocele repair	20	Penis prosthesis for hypospadias	14
Inguinal hernia repair with excision of hydrocele		Removal of pin or wire (closed)	
or orchiectomy	20	• · · · ·	14
Ingrown nail removal		Linear closure laceration <2cm eylid, ear,	
	20	lip, nose	12
Insertion of secondary intraocular lens	20	Repair wound dehiscence	12
Knee synovectomy	20	Subcutaneous fasciotomy palm or sole	12
ORIF phalanges		Excision skin or subcutaneous lesion	
	20	unusually complicated	11
Recurrent inguinal hernia repair	20	Simple wound repair	11

Procedure	Count	Procedure	Count
Anterior vitrectomy as a secondary procedure		Oral antral fistula closure by Caldwell-	
	10	Luc sinusotomy	7
Cruciate ligament suture repair knee	10	Reduction mammoplasty unilateral	7
Cruciate or collateral ligament reconstruction	10	Autogenous arteriovenous fistula for	-
knee	10	dialysis	7
Cystoscopy and biopsy	10	Epididymectomy, unilateral	7
Elbow arthrotomy for drainage or removal of	10	Hip arthrotomy for drainage or removal of loose body	7
loose body Endometrial biopsy	10	Local flap repair trunk up to 6cm ²	7
Excision of lesion and closure eyelid, ear, lip	10	Vulvar biopsy	1
nose $2-4\text{cm}^2$	10	vulvar biopsy	7
Excision of skin and subcutaneous tissue for	10	Abdominal lipectomy massive (>30cm	,
suppurative hydradenitis	10	vertical skin resection)	\mathbf{S}^{\dagger}
Femoral hernia repair	10	Anal condylomata resection, subsequent	S
Finger amputation	10	Anal stenosis/ stricture dilation	S
Flexible sigmoidoscopy	10	Arthrography	S
Full thickness skin graft ear, eyelid, lip, nose	10	Arthroplasty 4 fingers	S
Hemodialysis arteriovenous bypass graft	10	Arthrotomy small joint upper extr for	S
Hyperhidrosis excision with extensive	10	AV bypass for hemodialysis	Б
undermining	10	, , , , , , , , , , , , , , , , , , ,	S
Inguinal superficial lymphadenectomy	10	Balancing breast surgery	S
Lumpectomy and axillary node dissection	10	Biopsy nasopharynx	S
ORIF metatarsal	10	Biopsy of skin/ subcut tissue	S
Percutaneous nephrostomy and stone		Biopsy oropharynx	
manipulation	10		S
Percutaneous nephrostomy and stone removal	10	Bladder tumor resection	S
Prepuce dorsal or lateral split	10	Capsulorrhaphy patella for dislocation	S
Rectocele repair	10	Carotid angiogram	S
Removal breast tissue expander and insertion		Cervix brachytherapy, initial	
of prosthesis	10		S
Revision of breast mound	10	Cervix conization with or without	~
	10	dilatation and curettage	S
Sentinel lymph node biopsy for breast	10	Closed reduction femoral neck	S
neoplasm Sentinel lymph node biopsy in melanoma		Closed reduction metacarpal	
Simple complete mastectomy	10	Closed reduction of ankle dislocation	S
	10	Closed reduction radial head or neck	S
Tendon reconstruction with fascial graft Wrist arthroplasty	10	Closed reduction radial head of neck	S
	10	Closed reduction radius and ulna	S
Cervical brachytherapy, subsequent	9		S
Metatarsal excision partial	9	Correction of penile curvature	S
Epididymis exploration	8	Cystoscopy and bladder dilation	S
Hip closed reduction	8	Debridement of small bones for	c
Wrist fusion	8	osteomyelitis Destruction of 25% of cervix for cancer	S S
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Procedure	Count	Procedure	Count
Drainage of breast abscess		Osteotomy lesser bones (fibula metatarsals	
	S	etc.)	S
Drainage of infected bursa	S	Postpartum sterilization by any method	S
Elbow flexor plasty tendon repair	S	Proctosigmoidoscopy	S
Elbow synovectomy	S	Proctosigmoidoscopy and biopsy	S
Ethmoidectomy and antrostomy, bilateral	S	Partially buried catheter removal	S
Excision and repair head, neck, gen, hands, feet		Partially buried catheter revision	
5-10cm	S		S
Excision lumbar intervertebral disc, with spinal		Pectoralis to biceps tendon transfer	
fusion	S	(Clark's operation)	S
Excision of Baker's cyst	S	Percutaneous bile duct drainage	S
Excision of bursa upper extremity for		Percutaneous thermocoagulation of	
tenosynovitis	S	trigeminal nerve, unilateral	S
Excision of complicated skin/subcutaneous	C	Pilonidal cyst marsupialization	C
lesions on face	S	D'I and dial and a state of a local state of a	S
External ear exostoses excision multiple	S	Pilonidal sinus excision and plastic closure	S
External ear exostoses excision single	S	Polypectomy and antrostomy, unilateral	S
Extra corporeal shock wave lithotripsy	G	Posterior tympanotomy with ear	C
Tingen onthrodosis	S	reconstruction	S
Finger arthrodesis	S	Postpartum sterilization by any method	S
Foreign body subcutaneous tissue removal	S	Proctosigmoidoscopy	S
Full thickness skin graft to axilla, face, feet,	C	Proctosigmoidoscopy and biopsy	C
gen, hands, mouth , neck	S	Drestate bionay, needle	S
Gastroscopy	S	Prostate biopsy, needle	S
Hydrocele aspiration	S	Prostate brachytherapy seed implantation	S
Incisional biopsy of testis	S	Prostate brachytherapy unusually	S
Internal urethrotomy	S S	complicated Pterygium excision	
Keratotomy of cornea, any type		Radical mastectomy	S
	S	-	S
Laceration repair face, scalp, neck genitalia, hands, feet < 5cm	S	Reconstruction mammoplasty with permanent prosthesis	S
Lacrimal duct and sac incision	S	Removal of hardware two incisions	S
Linear closure laceration 5-10cm trunk, arms	د	Removal of intraocular implant, unilateral	3
legs	S	Kemoval of intraocular implant, unnateral	S
Local flap ears, eyelid, lip, nose $6-19 \text{ cm}^2$	S	Removal of subareolar button male	S
Local flap repair arms, legs, scalp up to 6cm ²	5	Repeat fascial sling for incontinence with	D
200ar hap repair anno, rego, searp ap to sear	S	fascia	S
Lymph node biopsy NOT scalene, cervical or		Repositioning of intraocular lenses	
axilla	S		S
Marsupilaization/ drainage of liver cyst		Resection branchial cleft cyst or sinus,	
	S	subcutaneous	S
Nose biopsy	S	Retinal reattachment subsequent operation	S
Orchiectomy, simple unilateral		Rhinoplasty complete	
	S		S

Procedure	Count	Procedure	Count
Scrotum unusually complicated	S	Tympanotomy, exploratory for deafness	S
Scrotum, drainage of abscess	S	Umbilical hernia	S
Skin and subcutaneous free flap	S	Urehtrotomy, external anterior	S
Stapedectomy with prosthesis, fenestration of		Ureterolithotomy	
oval window	S		S
Split thickness skin graft ears, face, feet gen,		Ureteroscopy and stent insertion	
hands digits, neck up to 100cm ²	S		S
Suture of sclera for wound or injury	S	Urethral stricture dilation, initial	S
Tendom lengthening or shortening	S	Varicocele excision, unilateral	S
Tendon sheath incision and drainage for		Vulva abscess incision and drainage	
tenosynovitis upper extremity	S		S
Tenotomy of hip adductors		Wrist arthrotomy for drainage or removal	
	S	of loose body	S
Thyroglossal duct cyst excision	S		

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