

## Supplemental Online Content

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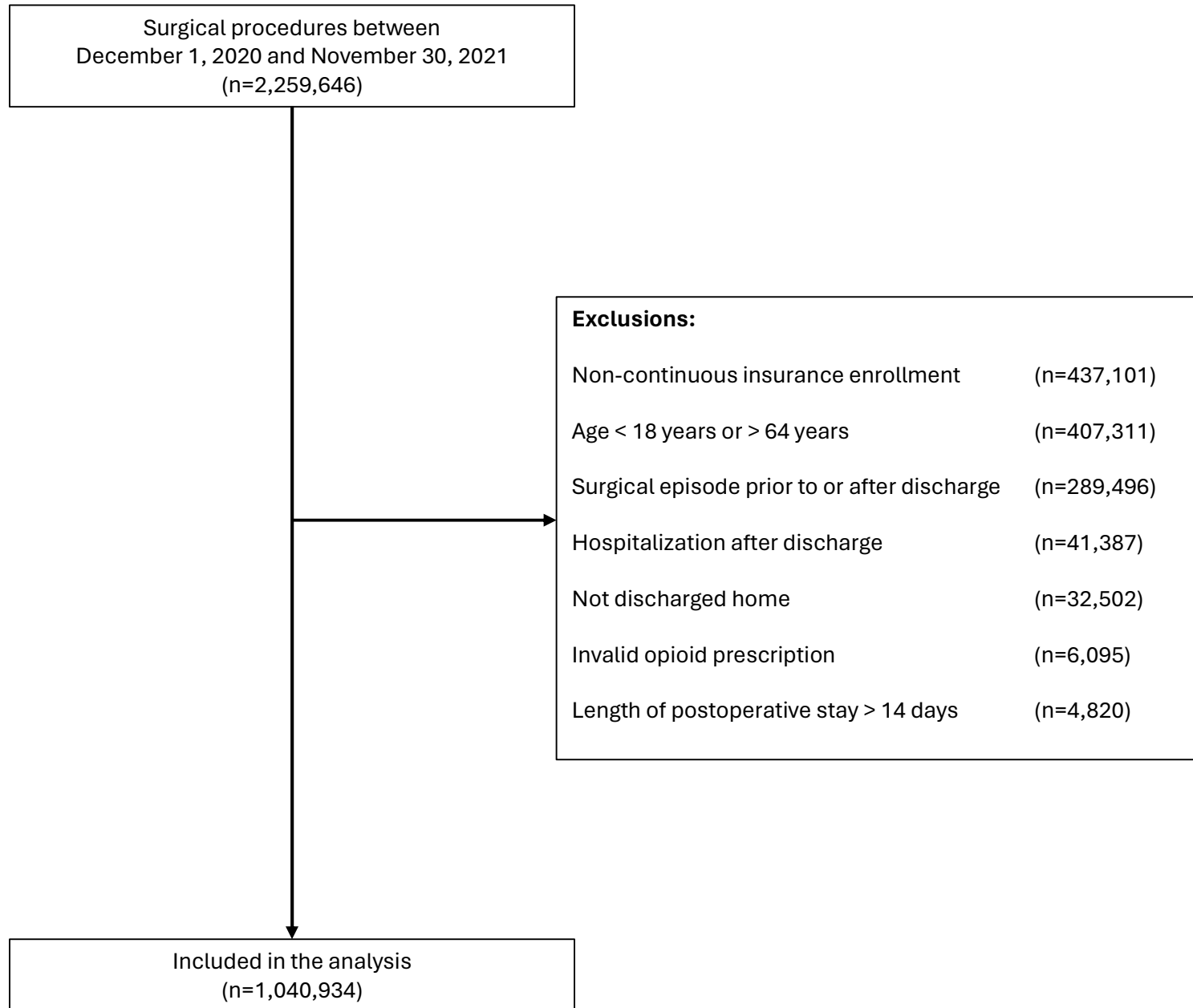
**eFigure.** Study Cohort Flowchart

**eAppendix 2.** Complete List of Outcomes for All Procedure Types

**eAppendix 4.** List of Opioids and Their MME Conversion Factors

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

**eFigure. Study Cohort Flowchart**



## eAppendix 2. Complete List of Outcomes for All Procedure Types

Complete list of outcomes for all surgical procedures										
Age group	Procedure	Number of procedures	Opioid dispensing rate	Mean MME per procedure	Refill rate	Opioid-benzo overlap rate	Share of all surgical opioid Rx	Share of all total MMEs	Share of all refills	Share of all procedures with opioid-benzo overlap
18 to 44 years	Cesarean section	95720	58.9%	119.3	3.1%	0.3%	22.2%	19.4%	7.7%	2.9%
18 to 44 years	Hysterectomy - laparoscopic or vaginal	29464	69.1%	134.8	6.2%	2.9%	8.0%	6.8%	5.5%	9.7%
18 to 44 years	Cholecystectomy - laparoscopic	24523	75.2%	141.1	4.3%	2.4%	7.3%	5.9%	2.9%	6.8%
18 to 44 years	Arthroscopy of knee	20486	57.5%	179.7	8.9%	1.7%	4.7%	6.3%	6.3%	4.0%
18 to 44 years	Appendectomy - laparoscopic	10787	68.2%	118.2	2.8%	1.4%	2.9%	2.2%	0.8%	1.7%
18 to 44 years	Rhinoplasty	12851	57.2%	123.6	3.3%	1.9%	2.9%	2.7%	1.2%	2.9%
18 to 44 years	Tonsillectomy and/or adenoidectomy	10045	64.0%	229.6	16.1%	1.1%	2.5%	3.9%	4.1%	1.3%
18 to 44 years	Nerve decompression	7530	62.0%	125.1	8.6%	3.3%	1.8%	1.6%	2.2%	2.8%
18 to 44 years	Open treatment of fracture, lower extremity	7679	59.5%	224.2	18.0%	2.0%	1.8%	2.9%	5.2%	1.8%
18 to 44 years	Arthroscopy of shoulder	7870	57.0%	192.3	13.0%	2.5%	1.8%	2.6%	3.7%	2.2%
18 to 44 years	Open treatment of fracture, upper extremity	7099	61.0%	192.4	11.3%	1.6%	1.7%	2.3%	3.0%	1.3%
18 to 44 years	Hernia repair, abdominal - open	5885	72.5%	149.1	6.5%	2.4%	1.7%	1.5%	1.2%	1.6%
18 to 44 years	Laparoscopic fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method	6481	65.4%	118.1	4.8%	2.4%	1.7%	1.3%	1.0%	1.8%
18 to 44 years	Laminectomy/corpectomy	6030	64.7%	237.4	19.6%	7.0%	1.5%	2.4%	4.7%	4.8%
18 to 44 years	Gastric bypass	7846	47.3%	107.7	3.3%	2.2%	1.5%	1.4%	0.7%	2.0%
18 to 44 years	Hernia repair, abdominal - laparoscopic	3653	78.5%	165.9	11.1%	3.6%	1.1%	1.0%	1.2%	1.5%
18 to 44 years	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	4761	54.3%	164.2	7.5%	2.2%	1.0%	1.3%	1.4%	1.2%
18 to 44 years	Hernia repair, inguinal/femoral - laparoscopic	3389	74.7%	144.1	4.0%	1.4%	1.0%	0.8%	0.4%	0.6%
18 to 44 years	Mammoplasty, augmentation	4712	48.5%	106.0	4.3%	1.7%	0.9%	0.8%	0.6%	0.9%
18 to 44 years	Excision of breast lesion	3912	54.2%	67.9	3.6%	1.9%	0.8%	0.5%	0.4%	0.8%
18 to 44 years	Excision of pilonidal cyst or sinus	2834	67.5%	129.8	7.3%	1.4%	0.8%	0.6%	0.7%	0.4%
18 to 44 years	Laparoscopic fulguration of oviducts (with or without transection)	2759	67.0%	96.5	2.6%	1.4%	0.7%	0.5%	0.2%	0.5%
18 to 44 years	Ectopic pregnancy surgery	2579	71.6%	116.0	4.0%	0.9%	0.7%	0.5%	0.3%	0.3%
18 to 44 years	Thyroidectomy, with or without lymphadenectomy	2900	62.8%	96.9	3.2%	2.1%	0.7%	0.5%	0.3%	0.7%
18 to 44 years	Arthrodesis of spine	2674	60.7%	241.2	26.9%	11.1%	0.6%	1.1%	2.9%	3.4%
18 to 44 years	Lumpectomy or mastectomy	2641	58.5%	108.6	7.4%	4.4%	0.6%	0.5%	0.8%	1.3%
18 to 44 years	Excision of ganglion, wrist	2521	60.5%	105.7	3.5%	1.5%	0.6%	0.5%	0.3%	0.4%

18 to 44 years	Hernia repair, inguinal/femoral - open	2002	74.5%	168.9	6.0%	1.7%	0.6%	0.6%	0.4%	0.4%
18 to 44 years	Correction of hallux rigidus	2772	51.8%	151.6	11.8%	2.5%	0.6%	0.7%	1.1%	0.8%
18 to 44 years	Biopsy or excision of lymph node(s)	2305	60.4%	94.7	7.7%	5.9%	0.5%	0.4%	0.6%	1.6%
18 to 44 years	Hysterectomy - open abdominal	2033	68.3%	154.2	13.4%	3.9%	0.5%	0.5%	0.8%	0.9%
18 to 44 years	Excision of soft tissue lesion	2993	45.7%	73.6	3.5%	1.1%	0.5%	0.4%	0.3%	0.4%
18 to 44 years	Arthroscopy of hip	2467	54.8%	207.1	9.5%	6.8%	0.5%	0.9%	1.0%	1.9%
18 to 44 years	Biceps tenodesis or reconstruction	2000	60.8%	228.3	13.9%	1.7%	0.5%	0.8%	1.0%	0.4%
18 to 44 years	Laparoscopic occlusion of oviducts by device (eg, band, clip, or Falope ring)	1621	68.0%	85.0	2.3%	1.0%	0.4%	0.2%	0.1%	0.2%
18 to 44 years	Surgical treatment of anal fistula	1555	69.9%	163.9	8.3%	4.4%	0.4%	0.4%	0.5%	0.8%
18 to 44 years	Laparoscopic abdominal procedure	1635	65.2%	111.3	5.4%	2.6%	0.4%	0.3%	0.3%	0.5%
18 to 44 years	Carpal tunnel release, endoscopic	1773	59.1%	84.7	6.0%	3.0%	0.4%	0.3%	0.4%	0.6%
18 to 44 years	Ligation or transection of fallopian tube(s)	1798	54.9%	100.8	1.9%	0.3%	0.4%	0.3%	0.1%	0.1%
18 to 44 years	Repair of ruptured Achilles tendon	1725	57.0%	154.5	7.9%	0.6%	0.4%	0.5%	0.4%	0.1%
18 to 44 years	Laparoscopic repair of paraesophageal hernia	1710	51.8%	122.6	6.8%	2.7%	0.3%	0.4%	0.4%	0.5%
18 to 44 years	Tympanoplasty	1349	60.0%	101.0	2.9%	1.5%	0.3%	0.2%	0.1%	0.2%
18 to 44 years	Arthroscopy of ankle or foot	1321	59.0%	160.1	9.3%	2.2%	0.3%	0.4%	0.4%	0.3%
18 to 44 years	Inferior turbinate resection or excision	2134	35.9%	55.8	2.8%	2.7%	0.3%	0.2%	0.2%	0.7%
18 to 44 years	Open treatment of facial fractures	1276	59.8%	194.9	8.4%	2.7%	0.3%	0.4%	0.4%	0.4%
18 to 44 years	Arthroplasty of hip	1208	61.2%	282.8	28.9%	4.8%	0.3%	0.6%	1.5%	0.7%
18 to 44 years	Arthrodesis of lower extremity	1298	55.5%	214.8	22.3%	3.5%	0.3%	0.5%	1.2%	0.5%
18 to 44 years	Sling operation for stress incontinence	1110	65.0%	103.9	6.3%	4.3%	0.3%	0.2%	0.2%	0.6%
18 to 44 years	Open treatment of clavicle fracture	1258	56.9%	200.8	6.9%	1.0%	0.3%	0.4%	0.3%	0.1%
18 to 44 years	Laparoscopic lysis of adhesions	1033	69.0%	134.7	8.0%	3.9%	0.3%	0.2%	0.2%	0.5%
18 to 44 years	Tendon repair, upper extremity	1156	61.1%	179.8	9.0%	2.0%	0.3%	0.4%	0.4%	0.3%
18 to 44 years	Ligamentous reconstruction (augmentation), knee	1056	63.3%	286.4	17.6%	3.2%	0.3%	0.5%	0.6%	0.4%
18 to 44 years	Colectomy and/or proctectomy - laparoscopic	977	64.8%	137.7	13.2%	3.1%	0.2%	0.2%	0.5%	0.3%
18 to 44 years	Adjacent tissue transfer or rearrangement	2544	24.6%	36.6	2.1%	0.9%	0.2%	0.2%	0.2%	0.3%
18 to 44 years	Lipectomy, with or without excessive skin removal	1021	59.5%	135.8	16.7%	4.9%	0.2%	0.2%	0.5%	0.6%
18 to 44 years	Nerve repair	1012	56.7%	132.9	9.2%	2.6%	0.2%	0.2%	0.4%	0.3%
18 to 44 years	Myomectomy, fibroid	1011	55.4%	92.0	6.7%	1.4%	0.2%	0.2%	0.2%	0.2%
18 to 44 years	Follicle puncture for oocyte retrieval	6135	8.9%	6.2	0.3%	0.3%	0.2%	0.1%	0.1%	0.2%
18 to 44 years	Orchiectomy - open	789	68.8%	106.3	6.8%	2.0%	0.2%	0.1%	0.2%	0.2%
18 to 44 years	Skin graft	1179	44.9%	117.1	10.3%	2.0%	0.2%	0.2%	0.5%	0.3%

18 to 44 years	Trigger finger release	1024	51.6%	83.6	4.1%	2.1%	0.2%	0.1%	0.1%	0.3%
18 to 44 years	Excision of facial bone or tumor/cyst in facial bone	842	62.0%	71.1	5.0%	1.7%	0.2%	0.1%	0.1%	0.2%
18 to 44 years	Tendon repair, lower extremity	905	56.8%	158.1	13.7%	2.9%	0.2%	0.2%	0.4%	0.3%
18 to 44 years	Hand tendon repair	739	69.1%	168.7	9.6%	0.8%	0.2%	0.2%	0.3%	0.1%
18 to 44 years	Craniectomy or craniotomy	867	58.8%	192.8	14.0%	8.4%	0.2%	0.3%	0.4%	0.8%
18 to 44 years	Incision of tendon sheath of wrist	867	56.3%	106.4	7.3%	2.9%	0.2%	0.2%	0.2%	0.3%
18 to 44 years	Tenotomy, upper extremity	755	64.2%	159.6	12.6%	3.3%	0.2%	0.2%	0.4%	0.3%
18 to 44 years	Graft of fat or other tissue	861	54.7%	109.7	6.2%	3.6%	0.2%	0.2%	0.2%	0.4%
18 to 44 years	Excision of bone cyst or benign tumor with or without bone grafting	776	58.9%	221.6	9.1%	2.2%	0.2%	0.3%	0.2%	0.2%
18 to 44 years	Arthroplasty of knee	776	58.2%	318.6	40.3%	4.5%	0.2%	0.4%	1.8%	0.4%
18 to 44 years	Open treatment of fracture, hip or pelvis	719	60.6%	236.8	27.0%	2.9%	0.2%	0.3%	0.7%	0.2%
18 to 44 years	Osteotomy of lower extremity	795	53.6%	197.6	15.6%	2.9%	0.2%	0.3%	0.5%	0.3%
18 to 44 years	Fissurectomy	591	69.5%	169.6	6.8%	7.4%	0.2%	0.2%	0.1%	0.5%
18 to 44 years	Nephrectomy - laparoscopic	575	69.4%	146.8	10.8%	1.6%	0.2%	0.1%	0.2%	0.1%
18 to 44 years	Debridement of skin, muscle, or bone	1298	30.7%	81.3	7.0%	1.1%	0.2%	0.2%	0.4%	0.2%
18 to 44 years	Reconstruction of nonunion or malunion, upper extremity	569	69.4%	211.2	12.3%	3.3%	0.2%	0.2%	0.3%	0.2%
18 to 44 years	Ostectomy of foot and/or toes	741	52.8%	145.7	12.6%	2.8%	0.2%	0.2%	0.4%	0.2%
18 to 44 years	Repair of disrupted ligament, ankle	663	56.7%	227.4	19.6%	2.1%	0.1%	0.3%	0.5%	0.2%
18 to 44 years	Varicocele repair	586	64.2%	84.9	3.8%	1.2%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Excision of salivary tumor or salivary gland	556	67.1%	109.3	5.6%	2.9%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Arthroplasty of spine	587	63.4%	315.2	20.3%	7.5%	0.1%	0.3%	0.4%	0.5%
18 to 44 years	Breast implant	723	50.5%	113.1	5.1%	6.8%	0.1%	0.1%	0.1%	0.6%
18 to 44 years	Fasciectomy or fasciotomy	686	53.2%	111.3	10.6%	2.3%	0.1%	0.1%	0.3%	0.2%
18 to 44 years	Arthroscopy of wrist	535	65.2%	144.4	9.2%	2.8%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Vulvectomy	637	54.3%	75.6	8.2%	3.0%	0.1%	0.1%	0.2%	0.2%
18 to 44 years	Arteriovenous fistula creation or reconstruction	529	63.1%	103.2	6.6%	2.3%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Repair or reconstruction of collateral ligament, hand and/or fingers	517	63.2%	139.6	7.2%	1.0%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Excision of hydrocele	447	72.7%	122.7	6.0%	0.9%	0.1%	0.1%	0.1%	0.0%
18 to 44 years	Colectomy and/or proctectomy - open	509	63.5%	143.0	15.3%	2.8%	0.1%	0.1%	0.3%	0.2%
18 to 44 years	Reconstruction of face	592	54.1%	165.2	6.6%	0.8%	0.1%	0.2%	0.1%	0.1%
18 to 44 years	Graft of bone or cartilage to face	482	65.6%	132.0	6.8%	2.7%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Bone graft procedure	561	55.6%	211.6	14.3%	3.0%	0.1%	0.2%	0.3%	0.2%
18 to 44 years	Laparoscopic liver procedure	646	47.5%	110.7	5.3%	1.9%	0.1%	0.1%	0.1%	0.1%

18 to 44 years	Drainage of breast abscess	612	49.0%	91.6	7.2%	1.5%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Bone resection	561	52.9%	157.2	9.1%	2.1%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Colpopexy - laparoscopic	466	62.7%	133.3	5.4%	3.4%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Gastrocnemius recession	505	55.8%	172.1	18.8%	4.6%	0.1%	0.1%	0.4%	0.3%
18 to 44 years	Laparoscopic esophagus fundoplasty	393	71.8%	161.9	10.9%	3.8%	0.1%	0.1%	0.2%	0.2%
18 to 44 years	Implantable cardiac device procedures	751	36.1%	50.2	4.3%	2.3%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Sphincteroplasty, anal	377	71.1%	152.7	12.7%	8.5%	0.1%	0.1%	0.2%	0.4%
18 to 44 years	Repair of fistula, oronasal or oromaxillary	355	74.6%	101.0	5.1%	2.5%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Excision of lesion of tendon sheath or joint capsule, hand or finger	544	46.9%	87.5	1.7%	0.7%	0.1%	0.1%	0.0%	0.0%
18 to 44 years	Excision or destruction - intra-abdominal tumors, cysts or endometriomas	426	56.1%	118.7	7.5%	1.9%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Laryngoscopy, with tumor excision, with or without reconstruction	647	35.2%	69.5	2.9%	1.4%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Destruction of lesion(s), anus	469	48.6%	93.7	5.3%	3.6%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Strabismus surgery	1149	19.8%	32.6	0.9%	1.0%	0.1%	0.1%	0.0%	0.1%
18 to 44 years	Cerclage of cervix, during pregnancy	1857	12.0%	18.0	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%
18 to 44 years	Reconstruction of nonunion or malunion, lower extremity	336	65.8%	273.7	29.2%	2.4%	0.1%	0.2%	0.5%	0.1%
18 to 44 years	Tenolysis, upper extremity	363	59.8%	139.4	8.8%	2.2%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Amputation of lower extremity	426	49.3%	144.6	12.9%	1.9%	0.1%	0.1%	0.3%	0.1%
18 to 44 years	Amputation of upper extremity	345	60.9%	150.9	13.3%	2.3%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Lymphadenectomy	327	64.2%	164.6	10.4%	1.5%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Mohs micrographic technique	2709	7.7%	9.5	0.4%	0.3%	0.1%	0.0%	0.0%	0.1%
18 to 44 years	Reconstruction of foot	350	58.6%	192.3	16.6%	2.3%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Parathyroidectomy	377	54.1%	86.5	3.4%	1.1%	0.1%	0.1%	0.0%	0.0%
18 to 44 years	Suture of infrapatellar tendon	330	60.3%	178.4	14.8%	1.8%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Tubercleplasty of anterior tibia	354	55.4%	169.6	24.3%	3.4%	0.1%	0.1%	0.3%	0.1%
18 to 44 years	Enterolysis - laparoscopic	315	61.6%	131.9	9.8%	5.1%	0.1%	0.1%	0.1%	0.2%
18 to 44 years	Salpingo-oophorectomy	303	62.4%	134.7	8.3%	2.0%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Colporrhaphy	368	50.5%	96.8	7.6%	3.0%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Replacement of tissue expander with permanent prosthesis	341	54.5%	144.8	3.5%	6.2%	0.1%	0.1%	0.0%	0.2%
18 to 44 years	Intestinal procedure, resection and closure of enterostomy	312	59.3%	149.4	10.3%	3.2%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Transcatheter placement of intravascular stent - percutaneous or open	529	34.8%	115.8	5.1%	0.6%	0.1%	0.1%	0.1%	0.0%
18 to 44 years	Repair of primary, torn ligament and/or capsule, knee	319	57.4%	205.7	13.5%	2.5%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Excision of neuroma, neurofibroma, or neurolemmoma	420	42.9%	112.7	9.0%	4.0%	0.1%	0.1%	0.1%	0.2%

18 to 44 years	Excision of lesion, tendon, tendon sheath, or capsule; foot	347	51.6%	114.3	5.2%	1.2%	0.1%	0.1%	0.0%	0.0%
18 to 44 years	Ovarian cystectomy	282	62.4%	136.2	4.3%	0.0%	0.1%	0.1%	0.0%	0.0%
18 to 44 years	Arthrodesis of upper extremity	239	73.2%	265.3	23.4%	4.2%	0.1%	0.1%	0.3%	0.1%
18 to 44 years	CSF shunt	572	30.1%	80.1	7.0%	2.8%	0.1%	0.1%	0.2%	0.2%
18 to 44 years	Radical resection of tumor, soft tissue	302	56.3%	136.0	8.3%	2.3%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Capsulorrhaphy or reconstruction, wrist	263	63.1%	185.2	11.0%	1.9%	0.1%	0.1%	0.2%	0.1%
18 to 44 years	Incision and drainage of rectal, perirectal, or perianal abscess	251	62.5%	180.5	13.1%	3.2%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Claviculectomy	264	58.3%	237.3	18.9%	1.5%	0.1%	0.1%	0.2%	0.0%
18 to 44 years	Arthrotomy of lower extremity	282	53.5%	215.7	11.3%	1.4%	0.1%	0.1%	0.1%	0.0%
18 to 44 years	Insertion or replacement of cranial neurostimulator pulse generator or receiver	288	51.4%	103.9	0.7%	20.5%	0.1%	0.1%	0.0%	0.7%
18 to 44 years	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic	260	56.9%	119.7	3.1%	2.7%	0.1%	0.1%	0.0%	0.1%
18 to 44 years	Excision of Bartholin's gland or cyst	277	53.1%	103.7	7.2%	2.2%	0.1%	0.0%	0.1%	0.1%
18 to 44 years	Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator	221	66.1%	160.5	5.9%	19.0%	0.1%	0.1%	0.0%	0.5%
18 to 44 years	Osteochondral allograft, knee - open	240	60.4%	193.9	18.8%	0.8%	0.1%	0.1%	0.2%	0.0%
18 to 44 years	Exploration of penetrating wound	349	40.4%	113.2	7.2%	1.4%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Laparoscopic intestinal procedure	227	62.1%	135.2	11.5%	3.5%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Orchiopexy	213	65.3%	76.9	1.9%	1.4%	0.1%	0.0%	0.0%	0.0%
18 to 44 years	Endoscopic plantar fasciotomy	251	54.6%	106.7	6.4%	4.0%	0.1%	0.0%	0.0%	0.1%
18 to 44 years	Secondary closure of surgical wound or dehiscence	299	45.2%	112.9	9.4%	1.7%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Ligation of blood vessels	248	54.0%	104.2	8.5%	1.6%	0.1%	0.0%	0.1%	0.0%
18 to 44 years	Suture of quadriceps or hamstring muscle rupture	227	59.0%	185.2	12.3%	1.3%	0.1%	0.1%	0.1%	0.0%
18 to 44 years	Laparoscopic stomach procedure	294	45.2%	117.9	9.2%	4.1%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Tendon transfer, upper extremity	187	70.1%	249.6	16.6%	3.7%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Breast reconstruction	227	57.3%	117.3	10.6%	7.5%	0.1%	0.0%	0.1%	0.2%
18 to 44 years	Capsulorrhaphy, shoulder	236	54.2%	208.4	16.1%	2.1%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Colpopexy - open	189	67.7%	402.7	22.2%	5.3%	0.1%	0.1%	0.1%	0.1%
18 to 44 years	Repair of retinal detachment	830	15.3%	23.8	1.2%	0.5%	0.1%	0.0%	0.1%	0.0%
18 to 44 years	Excision or curettage of bone cyst or benign tumor	192	65.6%	211.1	10.9%	3.1%	0.0%	0.1%	0.1%	0.1%
18 to 44 years	Incision for implantation of neurostimulator electrode array	202	61.4%	101.7	13.4%	11.4%	0.0%	0.0%	0.1%	0.3%
18 to 44 years	Repair of ruptured musculotendinous cuff - open	189	65.6%	235.5	30.7%	3.7%	0.0%	0.1%	0.2%	0.1%
18 to 44 years	Alveoloplasty	191	63.9%	86.7	9.9%	7.9%	0.0%	0.0%	0.1%	0.2%
18 to 44 years	Urethroplasty	206	58.7%	108.5	8.3%	7.3%	0.0%	0.0%	0.1%	0.2%

18 to 44 years	Synovectomy, foot	238	50.4%	151.2	10.1%	1.3%	0.0%	0.1%	0.1%	0.0%
18 to 44 years	Radical excision of bursa, synovia of wrist, or forearm	193	61.7%	83.9	4.1%	2.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Decompression fasciotomy of lower extremity	187	63.1%	214.6	16.0%	1.1%	0.0%	0.1%	0.1%	0.0%
18 to 44 years	Arthrotomy of upper extremity	223	52.0%	199.0	4.9%	1.3%	0.0%	0.1%	0.0%	0.0%
18 to 44 years	Thoracoscopy, with partial or complete lung removal	205	56.1%	140.5	9.8%	2.9%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Thoracoscopy, with pleurodesis	205	56.1%	166.0	5.4%	1.5%	0.0%	0.1%	0.0%	0.0%
18 to 44 years	Intestinal procedure, resection and anastomosis - open	193	58.5%	179.5	11.4%	3.1%	0.0%	0.1%	0.1%	0.1%
18 to 44 years	Repair of blepharoptosis	407	27.3%	51.5	1.0%	0.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploratory laparotomy	204	54.4%	194.0	13.7%	4.4%	0.0%	0.1%	0.1%	0.1%
18 to 44 years	Arthroscopy of elbow	183	60.7%	193.2	6.0%	1.6%	0.0%	0.1%	0.0%	0.0%
18 to 44 years	Excision of vaginal cyst or tumor	356	30.9%	52.7	3.1%	0.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fracture of nasal inferior turbinate(s)	272	40.4%	58.3	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Rib excision	157	68.8%	160.3	11.5%	8.3%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Reconstruction of mandible or maxilla	186	56.5%	199.9	7.5%	2.2%	0.0%	0.1%	0.1%	0.0%
18 to 44 years	Cochlear device implantation	148	70.9%	90.6	2.7%	3.4%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Revision of reconstructed breast	197	51.3%	84.6	5.1%	2.5%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Stapedectomy or stapedotomy	174	56.9%	103.7	0.6%	1.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Appendectomy - open	171	57.9%	81.2	4.1%	0.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle	172	57.0%	175.1	11.6%	1.7%	0.0%	0.1%	0.1%	0.0%
18 to 44 years	Arthroplasty of forearm or hand	154	62.3%	182.7	13.6%	3.9%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Cystorrhaphy, suture of bladder wound, injury or rupture	149	63.8%	115.5	8.1%	2.0%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Salpingectomy	160	58.8%	79.2	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of dislocating patella	134	70.1%	325.7	17.9%	3.7%	0.0%	0.1%	0.1%	0.1%
18 to 44 years	Tendon transfer, lower extremity	140	65.0%	276.2	26.4%	4.3%	0.0%	0.1%	0.1%	0.1%
18 to 44 years	Excision of branchial cleft cyst, vestige, or fistula	137	65.7%	112.9	4.4%	2.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Flap reconstruction	192	46.4%	111.1	7.8%	0.5%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Osteoplasty of upper extremity	132	67.4%	199.6	15.2%	0.0%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Excision of rectal tumor, transanal, transsacral, transcoccygeal	141	61.7%	144.7	6.4%	5.0%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Excision of thyroglossal duct cyst or sinus	135	63.7%	116.3	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of spermatocele, with or without epididymectomy	125	68.0%	100.5	4.8%	1.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation, removal, or replacement of osseointegrated implant, temporal bone	116	73.3%	150.2	6.9%	3.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cholecystectomy - open	139	60.4%	178.2	12.9%	2.2%	0.0%	0.0%	0.1%	0.0%



18 to 44 years	Carpectomy	126	66.7%	234.1	11.9%	4.0%	0.0%	0.1%	0.0%	0.1%
18 to 44 years	Sesamoidectomy, first toe	158	52.5%	135.8	7.6%	1.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision and drainage, thigh or knee region	171	45.6%	146.7	7.0%	1.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nerve transection	123	61.8%	100.5	4.9%	3.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision and/or thrombectomy of arteriovenous fistula	145	51.7%	102.1	4.1%	2.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arthroplasty of shoulder	112	67.0%	344.2	33.9%	4.5%	0.0%	0.1%	0.2%	0.1%
18 to 44 years	Removal of implant; superficial (eg, buried wire, pin or rod)	718	10.2%	21.7	1.7%	0.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Synovectomy, hand	126	57.9%	104.9	7.9%	1.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Oophrectomy	118	61.9%	152.3	11.9%	1.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulectomy or capsulotomy, hand	105	69.5%	183.7	18.1%	4.8%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Neurostimulator procedures	139	51.8%	134.7	12.9%	9.4%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Closure of enterostomy	134	53.7%	105.2	11.2%	4.5%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Tendon lengthening or shortening, lower extremity	115	62.6%	134.2	15.7%	9.6%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Adrenalectomy - laparoscopic	101	71.3%	138.4	5.9%	6.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Tympanostomy	1007	6.9%	8.5	0.8%	0.5%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Application of external fixation system	124	55.6%	143.7	16.1%	3.2%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Tricuspid or Mitral valve repair/reconstruction - open	115	59.1%	139.6	13.9%	5.2%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Tenotomy, lower extremity	231	29.0%	74.3	4.3%	3.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Tarsal tunnel release	125	53.6%	188.3	21.6%	3.2%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Reduction of torsion of testis	101	65.3%	99.1	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of prepatellar bursa	97	68.0%	120.8	4.1%	1.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	CABG	107	60.7%	176.4	25.2%	5.6%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Aortic reconstruction/repair	103	63.1%	252.5	20.4%	3.9%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Osteotomy of upper extremity	93	68.8%	115.1	10.8%	4.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cranioplasty	132	47.0%	165.8	7.6%	4.5%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Elbow ligament reconstruction	123	50.4%	123.2	8.1%	2.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of enterocele	73	84.9%	275.5	24.7%	4.1%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth	116	52.6%	77.5	2.6%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Aortic valve repair/replacement - open	112	54.5%	96.4	13.4%	3.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic operation of penis to correct chordee or angulation	101	60.4%	113.6	5.0%	6.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Excision of olecranon bursa	97	60.8%	95.0	7.2%	5.2%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Liver resection	86	67.4%	207.0	16.3%	5.8%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Excision of urethral diverticulum	90	63.3%	100.7	7.8%	1.1%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Palatopharyngoplasty	97	57.7%	309.5	23.7%	1.0%	0.0%	0.1%	0.1%	0.0%
18 to 44 years	Removal of instrumentation in spine	83	67.5%	271.4	19.3%	12.0%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters	2006	2.7%	4.2	0.2%	0.5%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Periprosthetic capsulotomy, breast	107	51.4%	151.7	3.7%	5.6%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Laparoscopic ovarian procedure	74	73.0%	465.1	13.5%	2.7%	0.0%	0.1%	0.0%	0.0%
18 to 44 years	Transplantation of kidneys	122	43.4%	86.2	7.4%	3.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Neuroendoscopy, intracranial	116	45.7%	145.3	4.3%	1.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Enterolysis - open	100	53.0%	119.9	13.0%	6.0%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Removal of tissue expander(s) without insertion of prosthesis	89	59.6%	145.9	5.6%	5.6%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Intestinal procedure, resection and anastomosis - laparoscopic	83	63.9%	146.6	9.6%	6.0%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator	152	34.2%	57.8	2.0%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Genioplasty	102	51.0%	80.8	13.7%	4.9%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Ethmoidectomy	71	71.8%	99.4	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Perineoplasty, repair of perineum, nonobstetrical	131	38.2%	79.9	1.5%	1.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision and drainage, leg or ankle	135	36.3%	172.7	9.6%	3.0%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Repair of nonunion or malunion, foot bones	77	63.6%	225.6	20.8%	2.6%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Nephrectomy - open	71	69.0%	138.8	16.9%	2.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of mammary implant	107	43.9%	61.3	4.7%	10.3%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Laparoscopic fimbrioplasty	89	52.8%	90.6	3.4%	1.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arthroplasty of elbow	60	78.3%	325.6	30.0%	0.0%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Arthroplasty of temporomandibular joint	79	58.2%	95.4	13.9%	3.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic enterotomy closure	74	62.2%	151.6	9.5%	5.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Keratoplasty	284	15.8%	29.8	1.8%	0.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury	86	52.3%	274.0	10.5%	1.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstructive repair of pectus excavatum or carinatum	84	53.6%	179.5	13.1%	19.0%	0.0%	0.0%	0.0%	0.2%
18 to 44 years	Repair of rectocele	68	66.2%	217.5	10.3%	4.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureteroneocystostomy	64	70.3%	121.5	17.2%	3.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium	180	24.4%	33.6	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Mastoidectomy	72	61.1%	73.0	8.3%	1.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hysterectomy, extended - open	70	62.9%	155.9	15.7%	4.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intravitreal injection of a pharmacologic agent	8036	0.5%	3.3	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%

18 to 44 years	Excision or destruction of lingual tonsil, any method (separate procedure)	64	67.2%	252.2	14.1%	1.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Splenectomy - open	66	63.6%	248.6	22.7%	4.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Glossectomy	63	66.7%	148.2	11.1%	7.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Resection or excision of neoplastic, vascular or infectious lesion, intracranial	62	67.7%	199.9	12.9%	8.1%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Excision of lesion of mucosa and submucosa, vestibule of mouth	115	35.7%	35.1	3.5%	1.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploration of spinal fusion	71	57.7%	241.6	26.8%	11.3%	0.0%	0.0%	0.1%	0.1%
18 to 44 years	Exploration of artery without surgical repair	63	65.1%	154.2	14.3%	6.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic salpingostomy	57	70.2%	106.5	3.5%	3.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Infratemporal pre-auricular approach to middle cranial fossa	55	72.7%	204.8	18.2%	10.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Uvulectomy, excision of uvula	64	60.9%	117.4	14.1%	1.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic hernia repair	50	78.0%	264.4	16.0%	4.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Orbitotomy	114	33.3%	51.9	0.9%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arthroplasty of ankle	67	53.7%	151.0	20.9%	0.0%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Excision of local lesion of epididymis	61	59.0%	68.2	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Patellectomy or hemipatellectomy	60	60.0%	119.5	13.3%	3.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy	56	64.3%	166.1	3.6%	3.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Splenectomy - laparoscopic	41	87.8%	233.2	12.2%	9.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Percutaneous coronary procedures	1670	2.1%	7.3	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exclusion or fulguration of urethra	85	41.2%	84.5	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Dacryocystorhinostomy	80	42.5%	56.7	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Proctoplasty	47	72.3%	207.5	14.9%	8.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, with pulmonary decortication	79	41.8%	134.1	3.8%	2.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Penile prostheses	52	63.5%	66.6	5.8%	1.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of tendon pulley; finger	51	64.7%	124.4	9.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision or transposition of pterygium	289	11.1%	22.7	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Endovascular revascularization, lower extremity	172	18.6%	61.0	7.0%	2.3%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Removal or revision of sling for stress incontinence	66	48.5%	126.2	12.1%	3.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic uterine procedure	64	50.0%	49.2	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling	62	51.6%	133.1	9.7%	4.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arterial bypass	58	55.2%	122.4	15.5%	3.4%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Division of scalenus anticus	48	66.7%	204.7	18.8%	2.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteotomy of clavicle	46	69.6%	400.8	13.0%	2.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Lateral retinacular release - open	42	76.2%	332.9	16.7%	2.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, excision of pericardial or mediastinal mass	51	60.8%	169.6	5.9%	5.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury	44	70.5%	187.8	6.8%	2.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Umbilectomy, omphalectomy, excision of umbilicus	44	70.5%	98.4	6.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of vaginal septum	91	33.0%	27.2	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Diaphragmatic repair	52	57.7%	206.0	17.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Muscle transfer, upper extremity	47	63.8%	150.3	19.1%	2.1%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Trachelorrhaphy, plastic repair of uterine cervix, vaginal approach	105	27.6%	78.8	1.0%	1.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Open treatment of rib fracture	50	58.0%	263.4	18.0%	10.0%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Removal of peritoneal foreign body from peritoneal cavity	46	63.0%	175.7	10.9%	6.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, with thymectomy	35	82.9%	177.2	14.3%	5.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Lung resection	48	58.3%	225.6	18.8%	2.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of vaginal fistula	45	62.2%	99.4	11.1%	8.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of hand interphalangeal joint	39	71.8%	194.4	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Proctopexy - laparoscopic	36	77.8%	118.4	11.1%	8.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of blood vessel	80	33.8%	100.5	10.0%	1.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Autologous chondrocyte implantation, knee	59	45.8%	120.2	13.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reinsertion of spinal fixation device	56	48.2%	169.0	21.4%	14.3%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Intestinal procedure, ileostomy or jejunostomy	49	55.1%	191.4	18.4%	4.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity	38	71.1%	232.4	26.3%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cystotomy or cystostomy	63	41.3%	148.1	7.9%	3.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic repair of salivary duct, sialodochoplasty	63	41.3%	41.4	1.6%	1.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Occlusion of fallopian tube(s) by device	42	61.9%	88.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision of bone cortex, shoulder and upper extremity	41	63.4%	116.8	12.2%	7.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Aneurysm/pseudoaneurysm repair	35	74.3%	240.1	11.4%	5.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ligation or banding of angioaccess arteriovenous fistula	44	56.8%	89.0	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laryngoplasty	37	67.6%	143.9	2.7%	5.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lactiferous duct fistula	26	96.2%	289.2	15.4%	11.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of the lacrimal punctum	3904	0.6%	3.8	0.2%	0.1%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Epididymectomy	42	57.1%	132.8	7.1%	7.1%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Intestinal procedure, intestinal hernia and volvulus derotation open laparotomy	41	58.5%	134.4	19.5%	4.9%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Ureterolysis	39	61.5%	302.4	12.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pancreatectomy	38	63.2%	193.3	21.1%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Acromioplasty or acromionectomy	36	66.7%	253.8	22.2%	2.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of frenum, labial or buccal	84	27.4%	20.9	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sialolithotomy	54	42.6%	41.7	7.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intracranial arteriovenous malformation repair	44	52.3%	110.3	6.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of spermatic cord	32	71.9%	105.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - laparoscopic	26	88.5%	205.2	11.5%	15.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fixation of contralateral testis	39	56.4%	75.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploration for postoperative hemorrhage, thrombosis or infection	37	59.5%	283.5	18.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of peritoneal abscess - open	32	68.8%	284.8	18.8%	3.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision and repair of eyelid	116	18.1%	19.4	1.7%	0.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of metatarsal or toe	55	38.2%	55.5	14.5%	5.5%	0.0%	0.0%	0.1%	0.0%
18 to 44 years	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion	52	40.4%	99.3	5.8%	1.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Stereotactic implantation of depth electrodes into the cerebrum for long-term seizure monitoring	45	46.7%	81.4	2.2%	15.6%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Laparoscopic fibroid ablation	38	55.3%	138.1	2.6%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release	34	61.8%	190.4	11.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Coccygectomy, primary	32	65.6%	373.5	34.4%	6.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vasovasostomy, vasovasorrhaphy	29	72.4%	78.7	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tubotubal anastomosis	28	75.0%	150.7	10.7%	3.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nipple exploration or reconstruction	98	20.4%	40.9	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Muscle repair, hand	31	64.5%	214.5	6.5%	3.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Scrotoplasty	31	64.5%	85.8	6.5%	6.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Bypass graft	28	71.4%	286.8	32.1%	3.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lip	73	26.0%	29.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tenolysis, lower extremity	39	48.7%	182.5	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of distal ulna	34	55.9%	140.8	8.8%	14.7%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Laparoscopic sling operation for stress incontinence (eg, fascia or synthetic)	20	95.0%	132.2	20.0%	5.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gender affirming procedure, male to female	47	38.3%	372.4	8.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision and drainage, pelvis or hip joint area	39	46.2%	91.2	12.8%	2.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Embolectomy or thrombectomy	38	47.4%	70.1	15.8%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Colostomy - open	35	51.4%	179.9	17.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nasal/sinus endoscopy	35	51.4%	341.7	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of meniscus or capsule, knee	32	56.3%	200.3	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Enucleation of eye	31	58.1%	142.1	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of cyst or adenoma of thyroid, or transection of isthmus	31	58.1%	89.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Extensor tendon centralization, hand	28	64.3%	113.6	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Evisceration of ocular contents	26	69.2%	411.9	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic esophagus procedure sphincter augmentation	26	69.2%	110.7	0.0%	11.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic bladder procedure	25	72.0%	104.7	0.0%	8.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulotomy, wrist	24	75.0%	153.4	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic rectal procedure	37	45.9%	219.8	2.7%	2.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Decompression fasciotomy of upper extremity	31	54.8%	205.2	16.1%	3.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tenodesis, hand	24	70.8%	222.7	12.5%	4.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vitrectomy	341	4.7%	25.0	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Conjunctival flap	74	21.6%	61.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteotomy of facial bones	35	45.7%	300.7	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Colostomy - laparoscopic	33	48.5%	88.0	12.1%	6.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Palatoplasty	32	50.0%	199.0	9.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intracranial aneurysm repair - open	30	53.3%	174.9	16.7%	6.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hypophysectomy or excision of pituitary tumor	29	55.2%	215.6	10.3%	6.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Liver transplantation	29	55.2%	114.5	13.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of chest wall tumor, including ribs	27	59.3%	154.9	7.4%	3.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of tunica vaginalis hydrocele	27	59.3%	57.4	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Urethrolisis, transvaginal, secondary - open, including cystourethroscopy (eg, postsurgical obstruction, scarring)	25	64.0%	114.0	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Paravaginal defect repair - laparoscopic	24	66.7%	112.6	8.3%	4.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of urachal cyst or sinus	21	76.2%	221.3	9.5%	4.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Correction of lid retraction	42	35.7%	100.1	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Frenoplasty	41	36.6%	43.6	2.4%	2.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with pulmonary decortication	40	37.5%	123.2	12.5%	7.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Mastopexy	38	39.5%	49.0	5.3%	5.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Burr hole(s) or trephine	37	40.5%	121.1	10.8%	5.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of toe	29	51.7%	94.9	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Hysterorrhaphy of ruptured uterus	28	53.6%	123.2	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Maxillectomy	27	55.6%	78.3	11.1%	7.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Medianstintomy	25	60.0%	121.2	16.0%	8.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of intestinal fistula	24	62.5%	140.1	8.3%	4.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ablation of intra-abdominal tumor or benign lesion - laparoscopic	20	75.0%	106.0	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Biliary reconstruction - open	19	78.9%	366.2	5.3%	5.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureterotomy	35	40.0%	320.7	5.7%	2.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pulmonary valve repair/replacement - open	32	43.8%	59.1	6.3%	3.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of scrotum	28	50.0%	88.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, repair	26	53.8%	195.1	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thymectomy, with or without lymphadenectomy	26	53.8%	178.4	3.8%	3.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of mediastinal tumor	24	58.3%	122.7	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of bone tumor	23	60.9%	126.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of trochanteric bursa or calcification	22	63.6%	158.5	27.3%	18.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of synovial cyst of popliteal space	21	66.7%	87.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Trachelectomy, with or without lymph node dissection	21	66.7%	119.0	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Anoplasty	20	70.0%	254.6	30.0%	10.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Acetabuloplasty	17	82.4%	136.3	35.3%	52.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Transurethral resection of prostate	30	43.3%	36.4	13.3%	6.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Non-surgical repair of anal or anorectal fistula	27	48.1%	183.1	7.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, with sympathectomy	26	50.0%	115.9	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Secondary repair of dura for cerebrospinal fluid leak	23	56.5%	111.3	8.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Elevation of depressed skull fracture	22	59.1%	217.8	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic operation of penis for injury	20	65.0%	106.5	15.0%	5.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Prostatectomy - laparoscopic	18	72.2%	109.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of rectovesical fistula	17	76.5%	169.1	29.4%	5.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cataract removal	1287	0.9%	6.0	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Creation of pericardial window	37	32.4%	121.3	5.4%	5.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Urethromeatoplasty	30	40.0%	66.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of external auditory canal	28	42.9%	38.2	3.6%	7.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Open treatment of spinal fracture	27	44.4%	316.9	14.8%	3.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of extraparenchymal lesion of testis	24	50.0%	42.4	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sinusotomy, with or without reconstruction	23	52.2%	57.3	4.3%	4.3%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Division of plantar fascia and muscle	20	60.0%	141.4	15.0%	5.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis	19	63.2%	94.7	21.1%	5.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Proctopexy - open	18	66.7%	534.2	5.6%	5.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of tendon of hand or finger	17	70.6%	137.1	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fetal procedure	65	16.9%	10.0	1.5%	1.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of entropion	51	21.6%	43.8	3.9%	3.9%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic gastrostomy, without construction of gastric tube	43	25.6%	36.2	11.6%	4.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision of bone cortex, pelvis and lower extremity	34	32.4%	45.7	8.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of ectropion	30	36.7%	88.5	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of gastroduodenal or gastrojejunal anastomosis	21	52.4%	308.2	23.8%	9.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Corpora cavernosa shunts fore priapism	20	55.0%	123.4	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of atrial and/or ventricular septal defects	20	55.0%	499.3	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cystectomy	19	57.9%	84.7	15.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hypospadias repair	19	57.9%	106.8	10.5%	15.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploration, retroperitoneal area with or without biopsy(s)	18	61.1%	125.8	16.7%	11.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Open treatment of slipped femoral epiphysis	17	64.7%	278.1	17.6%	52.9%	0.0%	0.0%	0.0%	0.1%
18 to 44 years	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy	16	68.8%	121.7	18.8%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tissue expander placement, excluding breast	16	68.8%	78.3	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Radial styloidectomy	15	73.3%	277.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Release of intrinsic muscles of hand	15	73.3%	459.7	20.0%	6.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of stomach ulcer or tumor	14	78.6%	207.3	28.6%	7.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision and drainage of abscess in posterior spine	23	43.5%	184.9	8.7%	4.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Suture of mesentery	21	47.6%	45.3	4.8%	4.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Alveolectomy	20	50.0%	95.1	15.0%	5.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision (including removal) of prosthetic vaginal graft - open	19	52.6%	51.1	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fascia lata graft	17	58.8%	98.4	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Spine bony resection	16	62.5%	222.7	25.0%	6.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ablation of intraabdominal tumor or benign lesion ♦ open	15	66.7%	143.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of dural/cerebrospinal fluid leak or pseudomeningocele, with laminectomy	14	71.4%	199.3	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ciliary body destruction	86	10.5%	8.2	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic repair of introitus	27	33.3%	118.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of exostosis(es), external auditory canal	23	39.1%	44.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



18 to 44 years	Lysis of adhesions (salpingolysis, ovariolysis)	18	50.0%	85.4	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of Meckel's diverticulum or omphalomesenteric duct	15	60.0%	259.3	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of anomalous coronary artery from pulmonary artery origin	14	64.3%	157.7	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Uterine suspension	14	64.3%	335.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of presacral or sacrococcygeal tumor	13	69.2%	129.2	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Coronoidectomy	11	81.8%	160.1	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Abdominal wall repair, dehiscence	10	90.0%	193.3	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Embryo transfer, intrauterine	7337	0.1%	0.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of implanted material, eye	107	7.5%	7.1	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of eye laceration	57	14.0%	31.0	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulectomy or capsulotomy, hip	25	32.0%	60.8	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of brow ptosis	24	33.3%	125.9	0.0%	8.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Temporary closure of eyelids by suture	24	33.3%	99.0	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vaginectomy	21	38.1%	40.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteotomy of pelvis	18	44.4%	73.1	22.2%	5.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, lysis of adhesions	17	47.1%	310.3	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of tendon, hand	16	50.0%	32.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Optic nerve decompression	14	57.1%	43.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulotomy, posterior capsular release, knee	13	61.5%	125.0	23.1%	7.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Radical resection of tumor, bone	13	61.5%	187.3	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa	13	61.5%	124.6	0.0%	15.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulodesis, metacarpophalangeal joint	12	66.7%	61.7	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Endolymphatic sac operation	12	66.7%	51.7	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of gastric restrictive procedure for morbid obesity, other than adjustable gastric restrictive device - open	12	66.7%	127.1	16.7%	8.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of rectal procidentia	11	72.7%	191.3	0.0%	18.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic spleen procedure	10	80.0%	74.3	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Paravaginal defect repair - open	10	80.0%	132.3	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of shoulder	10	80.0%	210.5	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tracheostomy	63	11.1%	61.7	6.3%	3.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	TIPS	37	18.9%	44.5	2.7%	2.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of implant from finger or hand	33	21.2%	30.5	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic repair of canaliculi	32	21.9%	59.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Ventriculocisternostomy, third ventricle	18	38.9%	92.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cystolithotomy, cystotomy with removal of calculus	16	43.8%	48.8	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thromboendarterectomy	15	46.7%	53.0	6.7%	6.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of infected graft	14	50.0%	58.0	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision and drainage of abscess; retropharyngeal or parapharyngeal	14	50.0%	149.6	7.1%	7.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of foreign body, shoulder	14	50.0%	88.6	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tendon lengthening or shortening, upper extremity	14	50.0%	221.3	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic renal procedure	11	63.6%	229.1	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of ankle implant	11	63.6%	94.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Division of stricture of rectum	10	70.0%	365.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of synthetic rod and insertion of tendon graft in hand or finger	9	77.8%	170.6	22.2%	22.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transoral approach to skull base, brain stem or upper spinal cord for biopsy	9	77.8%	160.7	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Scapulopexy	7	100.0%	430.4	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ocular surface reconstruction	36	16.7%	13.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Twist drill hole for subdural, intracerebral, or ventricular puncture	29	20.7%	181.1	6.9%	3.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with exploration	16	37.5%	93.3	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Replacement, irrigation or revision of lumbosubarachnoid shunt	15	40.0%	90.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of fingertip	14	42.9%	49.8	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of radial head	13	46.2%	68.8	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Creation of lesion by stereotactic method	11	54.5%	288.4	0.0%	18.2%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of tendon sheath, forearm and/or wrist	11	54.5%	242.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of palate or extensive resection of lesion	11	54.5%	76.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Adrenalectomy - open	10	60.0%	126.3	40.0%	10.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Neurectomy	10	60.0%	126.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Debridement of sternum	9	66.7%	297.2	22.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of cardiac tumor with cardiopulmonary bypass	9	66.7%	313.9	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hysterotomy	9	66.7%	105.3	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, resection and enterostomy	9	66.7%	118.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Omentectomy, epiploectomy, resection of omentum	9	66.7%	94.7	22.2%	11.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Diaphragmatic hernia repair (other than neonatal)	8	75.0%	238.4	25.0%	12.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of paraesophageal hiatal hernia (including fundoplication)	8	75.0%	103.4	25.0%	12.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of diaphragm	8	75.0%	110.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Vestibuloplasty	8	75.0%	120.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic testicular procedure	7	85.7%	100.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Colotomy	6	100.0%	168.8	33.3%	16.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic biliary procedure	6	100.0%	326.3	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of syndactyly	6	100.0%	111.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Injection of medication or other substance into Tenon's capsule	337	1.5%	4.9	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation of intrastromal corneal ring segments	43	11.6%	6.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Capsulotomy, foot and/or toes	38	13.2%	60.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pericardial drainage	33	15.2%	34.3	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gastrostomy	20	25.0%	129.6	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Surgical closure tracheostomy or fistula, with or without plastic repair	18	27.8%	53.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Management of liver hemorrhage	14	35.7%	218.6	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with control of traumatic hemorrhage and/or repair of lung tear	14	35.7%	140.4	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of testicular prosthesis	13	38.5%	33.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of stapedectomy or stapedotomy	13	38.5%	63.5	0.0%	15.4%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion or tumor, dentoalveolar structures	12	41.7%	26.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cleft lip repair	11	45.5%	28.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of orbital implant	11	45.5%	39.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sympathectomy	11	45.5%	328.9	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of choanal atresia	10	50.0%	69.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sternal ostectomy, debridement, resection	10	50.0%	141.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of cystostomy	9	55.6%	140.0	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pyeloplasty	9	55.6%	64.4	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal or revision of orbital implant	9	55.6%	58.3	11.1%	11.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Suture or repair of testicular injury	9	55.6%	240.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Plastic operation on urethral sphincter, vaginal approach	8	62.5%	180.6	37.5%	12.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tracheoplasty	8	62.5%	65.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transfer of tendon of fingers	8	62.5%	75.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transplantation of pancreas	8	62.5%	72.5	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of fascial defect of leg	7	71.4%	257.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thrombectomy of arterial or venous graft	7	71.4%	526.1	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of carotid body tumor	5	100.0%	652.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pancreatic cyst or pseudocyst repair	5	100.0%	438.4	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Aqueous shunt to extraocular equatorial plate reservoir	81	4.9%	17.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lacrimal gland or lacrimal gland tumor	14	28.6%	60.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of cranial neurostimulator pulse generator or receiver	13	30.8%	136.3	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of dural/cerebrospinal fluid leak, not requiring laminectomy	12	33.3%	109.6	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparotomy	11	36.4%	141.1	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, with pleurectomy	11	36.4%	63.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of ureterocutaneous fistula	10	40.0%	100.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Placement of enterostomy or cecostomy, tube open	9	44.4%	262.1	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arthroscopy of hand	8	50.0%	39.7	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of complex cardiac anomalies	8	50.0%	140.3	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hyoid myotomy and suspension	7	57.1%	66.4	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone	7	57.1%	60.4	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity	7	57.1%	150.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone	7	57.1%	202.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of round window fistula	7	57.1%	180.6	14.3%	28.6%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arterial transposition	6	66.7%	155.0	33.3%	16.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pericardiectomy	6	66.7%	153.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pyloroplasty	6	66.7%	111.3	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of vena cava, any method	6	66.7%	173.8	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Decompression of internal auditory canal	5	80.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of interlaminar/interspinous process stabilization/distraction device	5	80.0%	296.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteoplasty of facial bones	5	80.0%	56.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of esophageal sphincter augmentation device	5	80.0%	512.5	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transcatheter pulmonary valve implantation	56	5.4%	11.4	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thrombectomy or thrombolysis, percutaneous intracranial	34	8.8%	53.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of foreign body, intraocular	23	13.0%	13.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy	16	18.8%	17.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gastrojejunostomy	14	21.4%	37.0	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteotomy of spine	11	27.3%	143.2	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of transplanted renal allograft	10	30.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization	9	33.3%	56.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Revision of urinary-cutaneous anastomosis	9	33.3%	60.0	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Application of halo, including removal	7	42.9%	86.4	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Control of nasopharyngeal or oropharyngeal hemorrhage	7	42.9%	197.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cutaneous appendico-vesicostomy	7	42.9%	24.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Division of sternocleidomastoid	7	42.9%	268.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of wrist	7	42.9%	82.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of recurrent ovarian, tubal, primary peritoneal, uterine malignancy	7	42.9%	44.6	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of cystic hygroma	6	50.0%	70.0	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploration, repair, and presacral drainage for rectal injury	6	50.0%	62.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Amputation of penis	5	60.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Lengthening of hamstring tendon	5	60.0%	56.5	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Operative tissue ablation and reconstruction of atria - endoscopic	5	60.0%	107.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity	4	75.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of retroperitoneal abscess - open	4	75.0%	60.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of tongue	4	75.0%	67.5	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Filletted finger or toe flap, including preparation of recipient site	4	75.0%	106.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of entire lumbosubarachnoid shunt system without replacement	4	75.0%	132.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of prosthesis, upper extremity	4	75.0%	106.3	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision (including removal) of prosthetic vaginal graft - laparoscopic	4	75.0%	51.3	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sesamoidectomy, thumb or finger	4	75.0%	58.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Suture of esophageal wound or injury	4	75.0%	193.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Augmentation of mandibular body or angle	3	100.0%	185.8	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Myocardial resection	3	100.0%	165.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Destruction of localized lesion of retina	272	0.7%	0.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Colpoperineorrhaphy	39	5.1%	6.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Surgical treatment of abortion	34	5.9%	6.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision or repair of operative wound of anterior segment of eye	31	6.5%	4.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fistulization of sclera for glaucoma	28	7.1%	9.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Canthoplasty	21	9.5%	10.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tracheostoma revision	21	9.5%	38.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Correction of lagophthalmos	18	11.1%	9.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of tracheostomy scar	11	18.2%	11.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)	10	20.0%	16.0	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of tonsil tags	8	25.0%	120.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of pelvic pressure ulcer	7	28.6%	35.7	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision tracheal stenosis and anastomosis	7	28.6%	342.9	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Osteoplasty of lower extremity	7	28.6%	63.6	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Esophagectomy	6	33.3%	70.0	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic transection of vagus nerves	6	33.3%	22.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic ureteral procedure	6	33.3%	16.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cricopharyngeal myotomy	5	40.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of ovarian cyst(s), abdominal approach	5	40.0%	43.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Enterotomy	5	40.0%	28.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Epididymovasostomy, anastomosis of epididymis to vas deferens	5	40.0%	78.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of ocular implants	5	40.0%	48.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of ventricular assist device	5	40.0%	87.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Lung transplant	5	40.0%	50.5	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Orchiectomy - laparoscopic	5	40.0%	23.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ostectomy of scapula	5	40.0%	135.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pharyngoplasty	5	40.0%	425.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pulmonary endarterectomy	5	40.0%	67.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal or repair of electromagnetic bone conduction hearing device in temporal bone	5	40.0%	23.0	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of mediastinal cyst	5	40.0%	57.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of palate, uvula	4	50.0%	293.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of penile plaque	4	50.0%	56.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Facelift	4	50.0%	47.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hernia repair, lumbar	4	50.0%	71.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic endocrine procedure	4	50.0%	68.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Lymphangiectomy or other operations on lymphatic channels	4	50.0%	37.5	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of ileoanal pouch fistula/sinus	4	50.0%	37.5	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of pulmonary atresia with ventricular septal defect, by construction or replacement of conduit from right or left ventricle to pulmonary artery	4	50.0%	75.0	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with resection-plication of bullae, includes any pleural procedure when performed	4	50.0%	53.8	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Epiphyseal or hemiepiphyseal arrest, lower extremity	3	66.7%	383.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Intestinal procedure, excision of ileoanal reservoir with ileostomy	3	66.7%	1675.0	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic appendix procedure	3	66.7%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laryngeal reinnervation by neuromuscular pedicle	3	66.7%	70.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pollicization of a digit	3	66.7%	62.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of ocular implant	3	66.7%	107.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of arteriovenous fistula, congenital	3	66.7%	83.3	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, control of hemorrhage	3	66.7%	300.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Construction of tracheoesophageal fistula and subsequent insertion of an alaryngeal speech prosthesis	2	100.0%	470.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Disarticulation through wrist	2	100.0%	205.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Division of aberrant vessel (vascular ring)	2	100.0%	180.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of subdiaphragmatic or subphrenic abscess - open	2	100.0%	170.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gingivoplasty	2	100.0%	150.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of esophageal varices	2	100.0%	138.8	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of isolated partial anomalous pulmonary venous return (eg, Scimitar Syndrome)	2	100.0%	431.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of oval window fistula	2	100.0%	1012.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Syndactylization, toes	2	100.0%	87.5	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracostomy, chest drainage with rib resection or flap	2	100.0%	300.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureteroplasty	2	100.0%	202.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureteroureterostomy	2	100.0%	120.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Placement of needle for intraosseous infusion	86	1.2%	0.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Multiple punctures of anterior cornea (eg, for corneal erosion, tattoo)	32	3.1%	3.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of lens material	30	3.3%	2.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Goniotomy	26	3.8%	11.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Iridectomy, with corneoscleral or corneal section	17	5.9%	3.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exchange of intraocular lens	15	6.7%	3.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of aqueous shunt to extraocular equatorial plate reservoir	15	6.7%	6.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cardiac procedure, unlisted	14	7.1%	11.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Severing adhesions of anterior segment of eye	13	7.7%	2.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cardiac ablation	11	9.1%	9.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transcatheter placement of intravascular stent(s), intracranial	10	10.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of symblepharon	8	12.5%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Debridement of shoulder	7	14.3%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of perirenal or renal abscess - open	7	14.3%	42.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of ovarian abscess	6	16.7%	35.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Endovascular aortic valve replacement	6	16.7%	10.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nasal septum reconstruction	6	16.7%	8.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis	6	16.7%	18.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Heart transplant	5	20.0%	20.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nephrolithotomy	5	20.0%	21.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of cardiac wound	5	20.0%	28.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Septal or other intranasal dermatoplasty	5	20.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Esophagogastric fundoplasty	4	25.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transrectal drainage of pelvic abscess	4	25.0%	18.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Intestinal procedure, strictuloplasty	3	33.3%	160.0	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laryngotomy	3	33.3%	33.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Marsupialization of urethral diverticulum, male or female	3	33.3%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of hip prosthesis	3	33.3%	200.0	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with removal of intrapleural foreign body or fibrin deposit	3	33.3%	12.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thrombectomy	3	33.3%	70.0	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Arthrotomy of temporomandibular joint	2	50.0%	67.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Corneal relaxing incision for correction of surgically induced astigmatism	2	50.0%	25.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Epiglottidectomy	2	50.0%	20.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of ampulla of Vater	2	50.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of pancreas (eg, cyst, adenoma)	2	50.0%	31.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of osseous tuberosities, dentoalveolar structures	2	50.0%	45.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic esophagus procedure	2	50.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Liver debridement	2	50.0%	56.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Major reconstruction, chest wall	2	50.0%	56.3	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Nephrostomy and/or nephrotomy	2	50.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Penile reconstruction	2	50.0%	25.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Prostatectomy - open	2	50.0%	675.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Quadricepsplasty (eg, Bennett or Thompson type)	2	50.0%	78.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal and/or replacement of inflatable urethral/bladder neck sphincter	2	50.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



18 to 44 years	Removal of prosthesis, shoulder	2	50.0%	75.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of postinfarction ventricular septal defect	2	50.0%	45.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of pharyngeal wall	2	50.0%	135.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection or debridement of pancreas and peripancreatic tissue for acute necrotizing pancreatitis	2	50.0%	112.5	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Splenorrhaphy	2	50.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, for postoperative complications	2	50.0%	150.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transfer of adductor to ischium	2	50.0%	675.0	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vesicourethropexy or urethropexy, anterior	2	50.0%	37.5	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vesiculotomy	2	50.0%	60.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cardiotomy, exploratory	1	100.0%	525.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of postauricular fistula, mastoid	1	100.0%	1125.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of salivary fistula	1	100.0%	50.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of vesicouterine fistula	1	100.0%	280.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Direct or patch closure, sinus venosus, with or without anomalous pulmonary venous drainage	1	100.0%	150.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Epiphyseal arrest by epiphysiodesis or stapling; distal radius and/or ulna	1	100.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion of mesentery	1	100.0%	1500.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision or unroofing of cyst(s) of kidney	1	100.0%	150.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision of anal septum (infant)	1	100.0%	450.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of vascular pedicle into carpal bone (eg, Hori procedure)	1	100.0%	125.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Labyrinthectomy	1	100.0%	1500.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laryngectomy, pharyngectomy, pharyngolaryngectomy	1	100.0%	50.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Meniscectomy of temporomandibular joint	1	100.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Operative tissue ablation and reconstruction of atria - open	1	100.0%	225.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pelvic exenteration	1	100.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pulmonary artery to aorta bypass	1	100.0%	30.0	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of diaphragm	1	100.0%	270.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of epithelial downgrowth, anterior chamber of eye	1	100.0%	750.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of intestinal transplant	1	100.0%	112.5	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of anterior palate, including vomer flap	1	100.0%	825.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of encephalocele, skull vault, including cranioplasty	1	100.0%	2100.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Resection of apical lung tumor	1	100.0%	225.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Sequestrectomy of bone in upper extremity	1	100.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Sequestrectomy of shoulder	1	100.0%	140.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transfer external oblique muscle to greater trochanter including fascial or tendon extension (graft)	1	100.0%	225.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transplantation of testis(es) to thigh	1	100.0%	187.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureterolithotomy - laparoscopic	1	100.0%	100.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Urinary undiversion	1	100.0%	45.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of intraocular lens prosthesis, not associated with concurrent cataract removal	19	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repositioning of intraocular lens prosthesis, requiring an incision	13	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transcatheter placement of intravascular stent - percutaneous	12	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Venous bypass, abdominal - open	12	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with cardiac massage	11	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	ECMO	8	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of cervical stump	8	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Paracentesis of anterior chamber of eye	8	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Urethrorrhaphy	7	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion, conjunctiva	6	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fetal shunt placement, including ultrasound guidance	6	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Canthopexy	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laparoscopic obstetric procedure	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pterygomaxillary fossa surgery	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of eyelid	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transcatheter mitral valve repair	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Aspiration or release of vitreous, subretinal or choroidal fluid, pars plana approach	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Induced abortion	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Keratomileusis	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of iris, ciliary body	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Suture of iris, ciliary body	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracoscopy, creation of pericardial window	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Duodenotomy	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of aural glomus tumor	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of ischial bursa	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion, esophagus	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Gender affirming procedure, female to male	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation of intravitreal drug delivery system, includes concomitant removal of vitreous	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of foreign body from deep penile tissue (eg, plastic implant)	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Abdomino-vaginal vesical neck suspension	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Angioplasty, intracranial - percutaneous	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Condylectomy of temporomandibular joint	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Construction of artificial vagina	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Denervation of hip joint	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Diverticulectomy of hypopharynx or esophagus	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Drainage of salivary gland abscess	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of dermoid cyst, nose	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Hysteroplasty, repair of uterine anomaly (Strassman type)	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Laser enucleation of the prostate with morcellation	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Radical excision of external auditory canal lesion	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Reconstruction of congenital hand polydactyly	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Release of extensive scar tissue without detaching extraocular muscle (separate procedure)	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of blood clot, anterior segment of eye	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Replantation, upper extremity	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Severing adhesions of anterior segment of eye, laser	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Urethrectomy, total, including cystostomy	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Vermilionectomy, with mucosal advancement	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Atrial septectomy or septostomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of major bronchial fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Closure of nephrocutaneous or pyelocutaneous fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Complex repair of eyelids, nose, ears, and/or lips	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Coracoacromial ligament release	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Corneal wedge resection for correction of surgically induced astigmatism	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Costotransversectomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Cricotracheal resection	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Diaphragmatic hernia repair (neonatal)	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Discission of vitreous strands (without removal), pars plana approach	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Donor procedure, Harvesting conjunctival allograft, living donor	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Epikeratoplasty	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Esophagomyotomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of coarctation of aorta	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of external ear	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Excision of lesion, sclera	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Exploration of orbit (transcranial approach)	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Facial nerve reconstruction or repair	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fertility procedures	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Fimbrioplasty	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Gender affirming procedure, vaginoplasty	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Implantation of chemotherapy device	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Incision of neck or thorax	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Insertion of subcutaneous reservoir, pump or continuous infusion system for connection to ventricular catheter (CNS)	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Iridotomy by stab incision	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Marsupialization of cyst or abscess of liver	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Mastoid obliteration	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ptosis correction	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Pyelotomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of prosthesis, knee	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Removal of vitreous, anterior approach	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Renal exploration	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of meningocele or myelomeningocele	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of nasolabial fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Repair of wound, extraocular muscle, tendon and/or Tenon's capsule	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Revision of lower extremity arterial bypass	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Rhinectomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Scleral reinforcement	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Suture of tongue to lip for micrognathia	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Tendon graft harvest	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

18 to 44 years	Thoracoplasty, Schede type or extrapleural	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Thoracotomy, with open intrapleural pneumonolysis	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transcatheter intracardiac shunt creation	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transfer of iliopsoas to femur	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Transfer of tendon or muscle, hamstrings to femur	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureteroileal conduit (ileal bladder), including intestine anastomosis	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Ureterolithotomy - open	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18 to 44 years	Venous valve transposition, any vein donor	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arthroscopy of knee	29303	57.4%	133.5	7.5%	2.6%	6.7%	6.5%	4.0%	4.8%
45 to 64 years	Cholecystectomy - laparoscopic	18639	73.4%	120.3	4.6%	3.6%	5.5%	3.7%	1.3%	4.2%
45 to 64 years	Arthroplasty of knee	23116	58.6%	254.6	35.7%	3.8%	5.4%	9.7%	20.7%	5.6%
45 to 64 years	Hysterectomy - laparoscopic or vaginal	17610	66.1%	117.4	5.1%	3.1%	4.7%	3.4%	1.4%	3.5%
45 to 64 years	Arthroscopy of shoulder	19511	57.9%	194.6	17.0%	3.4%	4.5%	6.3%	6.3%	4.3%
45 to 64 years	Nerve decompression	15192	55.5%	102.9	7.0%	3.1%	3.4%	2.6%	2.0%	3.0%
45 to 64 years	Laminectomy/corpectomy	12979	63.1%	236.5	24.0%	8.4%	3.3%	5.1%	6.6%	6.9%
45 to 64 years	Arthroplasty of hip	13217	58.3%	222.6	21.1%	3.3%	3.1%	4.9%	6.0%	2.7%
45 to 64 years	Hernia repair, abdominal - open	8258	72.5%	135.7	7.4%	3.4%	2.4%	1.9%	1.1%	1.8%
45 to 64 years	Hernia repair, inguinal/femoral - laparoscopic	7210	75.4%	122.1	4.2%	1.9%	2.2%	1.5%	0.5%	0.9%
45 to 64 years	Arthrodesis of spine	8656	61.4%	240.9	26.3%	8.8%	2.1%	3.4%	4.8%	4.8%
45 to 64 years	Hernia repair, abdominal - laparoscopic	6266	76.9%	139.9	9.0%	4.0%	1.9%	1.4%	0.9%	1.6%
45 to 64 years	Biopsy or excision of lymph node(s)	7479	61.5%	81.9	7.1%	5.1%	1.8%	1.0%	1.1%	2.4%
45 to 64 years	Rhinoplasty	7949	55.3%	107.7	3.9%	3.4%	1.8%	1.4%	0.5%	1.7%
45 to 64 years	Open treatment of fracture, upper extremity	6400	59.8%	157.7	13.8%	3.4%	1.5%	1.7%	1.8%	1.4%
45 to 64 years	Open treatment of fracture, lower extremity	6519	58.5%	193.3	18.9%	3.1%	1.5%	2.1%	2.5%	1.3%
45 to 64 years	Trigger finger release	8356	44.0%	61.3	3.4%	2.2%	1.5%	0.8%	0.5%	1.1%
45 to 64 years	Biceps tenodesis or reconstruction	6050	60.7%	209.1	15.0%	3.2%	1.5%	2.1%	1.8%	1.2%
45 to 64 years	Hernia repair, inguinal/femoral - open	4745	75.9%	148.3	6.8%	2.3%	1.4%	1.2%	0.5%	0.7%
45 to 64 years	Appendectomy - laparoscopic	5231	68.2%	100.7	3.8%	2.4%	1.4%	0.9%	0.3%	0.8%
45 to 64 years	Correction of hallux rigidus	6486	48.4%	119.1	8.1%	3.0%	1.3%	1.3%	1.1%	1.2%
45 to 64 years	Lumpectomy or mastectomy	4676	57.1%	97.8	7.7%	4.8%	1.1%	0.8%	0.7%	1.4%
45 to 64 years	Arthrodesis of lower extremity	4278	56.1%	178.1	18.8%	4.6%	1.0%	1.3%	1.7%	1.2%
45 to 64 years	Thyroidectomy, with or without lymphadenectomy	3822	59.6%	84.6	3.2%	2.8%	0.9%	0.5%	0.2%	0.7%
45 to 64 years	Gastric bypass	4555	47.0%	97.8	4.5%	3.2%	0.9%	0.7%	0.3%	0.9%

45 to 64 years	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	4228	50.4%	141.2	10.2%	3.9%	0.9%	1.0%	0.9%	1.0%
45 to 64 years	Arthroplasty of forearm or hand	3055	67.2%	162.0	14.8%	4.5%	0.8%	0.8%	1.0%	0.9%
45 to 64 years	Excision of soft tissue lesion	4560	44.7%	68.3	3.3%	2.0%	0.8%	0.5%	0.3%	0.6%
45 to 64 years	Colectomy and/or proctectomy - laparoscopic	3043	65.8%	117.2	10.4%	3.3%	0.8%	0.6%	0.5%	0.6%
45 to 64 years	Excision of breast lesion	3925	50.4%	58.6	2.8%	3.2%	0.8%	0.4%	0.2%	0.8%
45 to 64 years	Carpal tunnel release, endoscopic	3822	51.6%	72.1	4.1%	2.0%	0.8%	0.5%	0.3%	0.5%
45 to 64 years	Prostatectomy - laparoscopic	2632	66.3%	88.5	4.9%	2.2%	0.7%	0.4%	0.2%	0.4%
45 to 64 years	Sling operation for stress incontinence	2737	60.6%	80.6	4.7%	4.4%	0.7%	0.4%	0.2%	0.8%
45 to 64 years	Adjacent tissue transfer or rearrangement	8984	18.2%	23.4	1.1%	0.8%	0.7%	0.3%	0.2%	0.5%
45 to 64 years	Hysterectomy - open abdominal	2474	61.0%	116.6	7.7%	2.3%	0.6%	0.5%	0.3%	0.4%
45 to 64 years	Laparoscopic repair of paraesophageal hernia	2491	59.4%	119.7	6.9%	4.8%	0.6%	0.5%	0.3%	0.8%
45 to 64 years	Mohs micrographic technique	23547	6.0%	7.1	0.5%	0.5%	0.6%	0.3%	0.2%	0.7%
45 to 64 years	Fasciectomy or fasciotomy	2277	54.2%	106.4	7.2%	2.4%	0.5%	0.4%	0.3%	0.4%
45 to 64 years	CABG	1805	68.3%	175.3	15.2%	3.8%	0.5%	0.5%	0.5%	0.4%
45 to 64 years	Repair of ruptured Achilles tendon	2139	57.5%	142.4	12.2%	3.5%	0.5%	0.5%	0.5%	0.5%
45 to 64 years	Arthroplasty of shoulder	2090	58.8%	263.5	25.9%	4.3%	0.5%	0.9%	1.2%	0.6%
45 to 64 years	Repair of ruptured musculotendinous cuff - open	1848	62.6%	230.8	24.9%	5.6%	0.5%	0.7%	1.0%	0.7%
45 to 64 years	Tenotomy, upper extremity	1946	57.8%	149.6	9.8%	3.4%	0.5%	0.5%	0.3%	0.4%
45 to 64 years	Nephrectomy - laparoscopic	1558	68.7%	113.9	9.4%	2.6%	0.4%	0.3%	0.2%	0.3%
45 to 64 years	Implantable cardiac device procedures	3914	26.4%	41.7	3.3%	1.8%	0.4%	0.3%	0.2%	0.4%
45 to 64 years	Osteotomy of lower extremity	1866	52.4%	163.6	14.0%	3.1%	0.4%	0.5%	0.6%	0.4%
45 to 64 years	Arteriovenous fistula creation or reconstruction	1587	58.4%	110.6	7.7%	2.1%	0.4%	0.3%	0.2%	0.2%
45 to 64 years	Tendon repair, lower extremity	1569	56.9%	145.1	14.0%	3.0%	0.4%	0.4%	0.4%	0.3%
45 to 64 years	Graft of fat or other tissue	1793	49.5%	89.6	4.4%	4.3%	0.4%	0.3%	0.1%	0.5%
45 to 64 years	Excision of ganglion, wrist	1518	58.4%	99.9	5.8%	3.8%	0.4%	0.3%	0.2%	0.4%
45 to 64 years	Breast implant	1958	45.1%	82.1	4.5%	5.5%	0.4%	0.3%	0.2%	0.7%
45 to 64 years	Skin graft	3078	28.0%	55.6	4.5%	1.6%	0.3%	0.3%	0.3%	0.3%
45 to 64 years	Mammoplasty, augmentation	2038	42.3%	82.3	5.0%	2.6%	0.3%	0.3%	0.2%	0.3%
45 to 64 years	Parathyroidectomy	1641	52.3%	68.8	2.7%	1.8%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Colpopexy - laparoscopic	1339	62.7%	108.9	5.2%	2.6%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Amputation of lower extremity	1755	47.2%	139.1	12.1%	1.9%	0.3%	0.4%	0.5%	0.2%
45 to 64 years	Ostectomy of foot and/or toes	1590	51.3%	138.1	12.7%	3.7%	0.3%	0.4%	0.4%	0.4%
45 to 64 years	Surgical treatment of anal fistula	1191	67.8%	138.1	8.1%	4.2%	0.3%	0.3%	0.2%	0.3%

45 to 64 years	Excision of hydrocele	1100	72.6%	103.2	7.0%	2.0%	0.3%	0.2%	0.1%	0.1%
45 to 64 years	Excision of lesion of tendon sheath or joint capsule, hand or finger	1940	39.8%	61.3	2.2%	1.9%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Colectomy and/or proctectomy - open	1241	58.6%	120.1	14.3%	2.7%	0.3%	0.2%	0.3%	0.2%
45 to 64 years	Inferior turbinate resection or excision	2134	32.8%	57.8	2.5%	2.2%	0.3%	0.2%	0.1%	0.3%
45 to 64 years	Nerve repair	1320	52.3%	103.6	9.2%	3.9%	0.3%	0.2%	0.2%	0.3%
45 to 64 years	Incision of tendon sheath of wrist	1329	51.2%	77.6	4.9%	3.6%	0.3%	0.2%	0.1%	0.3%
45 to 64 years	Excision of salivary tumor or salivary gland	1007	65.7%	114.7	8.2%	3.8%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Tonsillectomy and/or adenoidectomy	1030	64.1%	201.5	20.4%	3.9%	0.3%	0.3%	0.3%	0.3%
45 to 64 years	Laparoscopic abdominal procedure	1010	64.5%	112.6	8.1%	3.0%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Craniectomy or craniotomy	1180	54.8%	160.9	10.8%	6.3%	0.3%	0.3%	0.2%	0.5%
45 to 64 years	Tympanoplasty	1065	60.8%	104.2	4.8%	3.6%	0.3%	0.2%	0.1%	0.2%
45 to 64 years	Transurethral resection of prostate	1517	39.7%	57.9	3.2%	1.5%	0.2%	0.1%	0.1%	0.1%
45 to 64 years	Thoracoscopy, with partial or complete lung removal	843	70.2%	180.2	20.6%	7.5%	0.2%	0.3%	0.3%	0.4%
45 to 64 years	Arthroscopy of hip	1107	51.8%	175.4	10.9%	4.4%	0.2%	0.3%	0.2%	0.3%
45 to 64 years	Tendon repair, upper extremity	905	60.8%	157.0	10.3%	3.0%	0.2%	0.2%	0.2%	0.2%
45 to 64 years	Excision of facial bone or tumor/cyst in facial bone	950	57.6%	84.8	7.3%	3.3%	0.2%	0.1%	0.1%	0.2%
45 to 64 years	Bone resection	1153	46.9%	105.0	8.0%	2.6%	0.2%	0.2%	0.2%	0.2%
45 to 64 years	Debridement of skin, muscle, or bone	2510	21.4%	68.4	6.5%	1.9%	0.2%	0.3%	0.4%	0.3%
45 to 64 years	Arthrodesis of upper extremity	809	65.3%	199.7	17.9%	5.2%	0.2%	0.3%	0.3%	0.3%
45 to 64 years	Lipectomy, with or without excessive skin removal	935	55.7%	117.0	13.9%	6.8%	0.2%	0.2%	0.3%	0.4%
45 to 64 years	Colporrhaphy	870	58.7%	98.4	6.1%	6.0%	0.2%	0.1%	0.1%	0.3%
45 to 64 years	Arthroscopy of ankle or foot	915	54.6%	150.5	10.2%	4.0%	0.2%	0.2%	0.2%	0.2%
45 to 64 years	Excision of bone cyst or benign tumor with or without bone grafting	1044	47.6%	124.5	8.0%	2.4%	0.2%	0.2%	0.2%	0.2%
45 to 64 years	Suture of quadriceps or hamstring muscle rupture	780	62.4%	180.8	15.4%	3.7%	0.2%	0.2%	0.3%	0.2%
45 to 64 years	Laryngoscopy, with tumor excision, with or without reconstruction	1295	35.7%	56.2	4.6%	3.2%	0.2%	0.1%	0.1%	0.3%
45 to 64 years	Laparoscopic esophagus fundoplasty	608	71.5%	142.4	8.7%	5.1%	0.2%	0.1%	0.1%	0.2%
45 to 64 years	Excision of neuroma, neurofibroma, or neurolemmoma	909	46.8%	97.6	6.3%	2.5%	0.2%	0.1%	0.1%	0.1%
45 to 64 years	Lymphadenectomy	674	62.6%	122.5	11.6%	5.6%	0.2%	0.1%	0.1%	0.2%
45 to 64 years	Thromboendarterectomy	771	54.3%	105.1	9.9%	5.1%	0.2%	0.1%	0.1%	0.2%
45 to 64 years	Open treatment of clavicle fracture	712	58.1%	176.5	11.0%	2.7%	0.2%	0.2%	0.1%	0.1%
45 to 64 years	Tendon transfer, upper extremity	602	66.9%	279.6	24.1%	6.5%	0.2%	0.3%	0.3%	0.2%
45 to 64 years	Arthroplasty of spine	655	60.0%	250.7	13.6%	7.0%	0.2%	0.3%	0.2%	0.3%
45 to 64 years	Intestinal procedure, resection and closure of enterostomy	641	60.1%	140.4	13.9%	4.2%	0.2%	0.1%	0.2%	0.2%

45 to 64 years	Tenolysis, upper extremity	626	57.8%	129.4	7.5%	3.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Intravitreal injection of a pharmacologic agent	53857	0.7%	4.2	0.2%	0.1%	0.1%	0.4%	0.4%	0.2%
45 to 64 years	Open treatment of fracture, hip or pelvis	626	56.9%	239.3	25.7%	5.3%	0.1%	0.2%	0.3%	0.2%
45 to 64 years	Vulvectomy	607	58.6%	86.4	10.5%	4.8%	0.1%	0.1%	0.1%	0.2%
45 to 64 years	Repair or reconstruction of collateral ligament, hand and/or fingers	519	67.6%	147.0	7.9%	3.7%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Gastrocnemius recession	627	55.5%	176.1	18.5%	3.3%	0.1%	0.2%	0.2%	0.1%
45 to 64 years	Excision of rectal tumor, transanal, transsacral, transcoccygeal	539	63.5%	98.0	6.7%	5.0%	0.1%	0.1%	0.1%	0.2%
45 to 64 years	Endovascular revascularization, lower extremity	3030	11.2%	32.2	2.9%	1.1%	0.1%	0.2%	0.2%	0.2%
45 to 64 years	Repair of blepharoptosis	1749	19.2%	20.7	1.1%	1.5%	0.1%	0.1%	0.0%	0.2%
45 to 64 years	Penile prostheses	463	71.3%	116.4	15.8%	3.7%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Laparoscopic liver procedure	597	54.8%	88.7	8.0%	2.3%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Claviculectomy	510	62.2%	312.6	19.4%	4.7%	0.1%	0.3%	0.2%	0.2%
45 to 64 years	Aortic valve repair/replacement - open	471	66.9%	155.7	12.7%	4.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic	575	54.6%	102.1	4.5%	3.1%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Percutaneous coronary procedures	14135	2.2%	9.0	0.8%	0.4%	0.1%	0.2%	0.2%	0.3%
45 to 64 years	Breast reconstruction	592	52.4%	126.7	10.3%	8.4%	0.1%	0.1%	0.1%	0.3%
45 to 64 years	Replacement of tissue expander with permanent prosthesis	643	48.1%	117.1	4.8%	6.5%	0.1%	0.1%	0.1%	0.3%
45 to 64 years	Radical resection of tumor, soft tissue	507	60.7%	123.5	8.5%	2.8%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Incision for implantation of neurostimulator electrode array	516	57.2%	89.6	7.6%	8.1%	0.1%	0.1%	0.1%	0.3%
45 to 64 years	Fissulectomy	419	70.4%	146.5	9.1%	11.5%	0.1%	0.1%	0.1%	0.3%
45 to 64 years	Repair of retinal detachment	3480	8.4%	10.6	0.4%	0.3%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Arthroscopy of wrist	445	64.9%	163.6	7.4%	4.3%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Bone graft procedure	500	56.6%	195.8	21.8%	4.0%	0.1%	0.2%	0.2%	0.1%
45 to 64 years	Open treatment of facial fractures	461	60.7%	166.8	11.9%	4.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Radical excision of bursa, synovia of wrist, or forearm	476	58.0%	74.7	7.8%	3.6%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Amputation of upper extremity	466	59.0%	143.1	14.8%	2.8%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Excision of lesion, tendon, tendon sheath, or capsule; foot	650	41.8%	74.5	3.1%	2.0%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Excision of spermatocele, with or without epididymectomy	376	72.1%	106.9	4.8%	1.6%	0.1%	0.1%	0.0%	0.0%
45 to 64 years	Graft of bone or cartilage to face	461	53.6%	83.6	4.8%	3.7%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Enterolysis - laparoscopic	442	55.0%	120.7	10.9%	4.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Hand tendon repair	376	64.6%	135.3	9.6%	2.9%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Revision of reconstructed breast	533	44.8%	78.2	5.3%	4.3%	0.1%	0.1%	0.1%	0.1%



45 to 64 years	Transcatheter placement of intravascular stent - percutaneous or open	1005	23.7%	48.5	3.7%	2.6%	0.1%	0.1%	0.1%	0.2%
45 to 64 years	Cesarean section	477	49.9%	90.5	2.5%	0.6%	0.1%	0.1%	0.0%	0.0%
45 to 64 years	Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters	7613	3.1%	7.3	0.4%	0.3%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Excision of olecranon bursa	398	58.8%	141.6	8.0%	4.3%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Intestinal procedure, resection and anastomosis - open	409	56.5%	115.7	13.7%	3.9%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Laparoscopic fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method	354	65.0%	118.7	7.1%	5.4%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Reconstruction of nonunion or malunion, upper extremity	352	64.5%	218.4	22.2%	5.4%	0.1%	0.1%	0.2%	0.1%
45 to 64 years	Bypass graft	338	63.6%	163.2	21.9%	3.6%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Exploration of spinal fusion	376	56.4%	253.5	31.1%	10.1%	0.1%	0.2%	0.3%	0.2%
45 to 64 years	Revision and/or thrombectomy of arteriovenous fistula	418	50.2%	107.1	6.9%	2.4%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Excision or destruction - intra-abdominal tumors, cysts or endometriomas	327	63.9%	157.0	15.3%	4.9%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator	339	61.4%	89.1	5.6%	7.4%	0.1%	0.0%	0.0%	0.2%
45 to 64 years	Carpectomy	297	69.7%	233.8	24.2%	5.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Synovectomy, hand	459	44.4%	59.8	4.4%	2.0%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Tricuspid or Mitral valve repair/reconstruction - open	317	64.4%	171.9	10.1%	1.6%	0.1%	0.1%	0.1%	0.0%
45 to 64 years	Endoscopic plantar fasciotomy	451	44.8%	109.7	4.7%	2.9%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Orchiectomy - open	294	68.4%	113.4	7.5%	1.7%	0.1%	0.1%	0.0%	0.0%
45 to 64 years	Aortic reconstruction/repair	400	50.0%	131.9	11.8%	2.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Sphincteroplasty, anal	292	67.8%	142.1	12.7%	6.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Destruction of lesion(s), anus	393	49.9%	99.6	5.6%	3.6%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Arthroplasty of ankle	319	60.5%	212.6	25.7%	1.9%	0.1%	0.1%	0.2%	0.0%
45 to 64 years	Periprosthetic capsulotomy, breast	392	47.4%	140.5	8.7%	7.4%	0.1%	0.1%	0.1%	0.2%
45 to 64 years	Cataract removal	21632	0.9%	5.5	0.3%	0.1%	0.1%	0.2%	0.2%	0.2%
45 to 64 years	Synovectomy, foot	357	51.0%	159.9	13.2%	2.8%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Secondary closure of surgical wound or dehiscence	388	45.6%	164.6	14.2%	3.6%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Excision of pilonidal cyst or sinus	303	56.8%	144.0	12.2%	3.0%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Nephrectomy - open	269	63.6%	135.3	15.6%	3.7%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Ligation of blood vessels	342	49.7%	67.5	4.4%	2.6%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Cochlear device implantation	243	69.5%	100.7	4.1%	5.3%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Cholecystectomy - open	284	59.2%	141.0	12.7%	5.3%	0.1%	0.1%	0.1%	0.1%

45 to 64 years	Glossectomy	246	68.3%	154.5	19.5%	1.6%	0.1%	0.1%	0.1%	0.0%
45 to 64 years	Excision or curettage of bone cyst or benign tumor	255	64.3%	149.9	13.3%	5.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Strabismus surgery	707	23.1%	37.2	2.1%	1.7%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Urethroplasty	237	68.8%	136.8	6.8%	6.3%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Repair of brow ptosis	590	27.5%	33.3	1.5%	1.7%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Repair of disrupted ligament, ankle	307	51.8%	195.2	19.5%	6.8%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Reconstruction of nonunion or malunion, lower extremity	260	60.8%	301.4	25.0%	4.2%	0.1%	0.1%	0.2%	0.1%
45 to 64 years	Arthrotomy of upper extremity	320	49.1%	116.7	9.7%	1.9%	0.1%	0.1%	0.1%	0.0%
45 to 64 years	Acromioplasty or acromionectomy	228	68.4%	219.8	25.9%	3.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Tenotomy, lower extremity	992	15.6%	46.7	2.2%	1.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Stapedectomy or stapedotomy	293	52.9%	59.0	1.0%	2.0%	0.1%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic stomach procedure	327	47.1%	90.0	10.7%	5.2%	0.1%	0.0%	0.1%	0.1%
45 to 64 years	Lung resection	228	66.7%	195.5	35.5%	7.5%	0.1%	0.1%	0.2%	0.1%
45 to 64 years	Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle	261	57.9%	151.8	11.5%	4.2%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Colpopexy - open	218	69.3%	324.0	11.5%	6.0%	0.1%	0.1%	0.0%	0.1%
45 to 64 years	Liver resection	215	67.9%	171.5	14.9%	3.7%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Fracture of nasal inferior turbinate(s)	321	43.6%	61.4	2.5%	3.4%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Arthrotomy of lower extremity	291	48.1%	138.2	13.1%	4.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator	602	23.1%	34.3	2.0%	1.7%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Neurostimulator procedures	269	51.3%	108.5	12.6%	8.9%	0.1%	0.0%	0.1%	0.2%
45 to 64 years	Arterial bypass	216	63.4%	141.8	18.1%	5.1%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy	264	51.5%	134.7	10.2%	1.9%	0.1%	0.1%	0.0%	0.0%
45 to 64 years	Suture of infrapatellar tendon	213	63.8%	192.9	19.2%	1.9%	0.1%	0.1%	0.1%	0.0%
45 to 64 years	Adrenalectomy - laparoscopic	199	68.3%	112.2	10.1%	5.0%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Removal of instrumentation in spine	239	56.5%	237.1	25.5%	11.3%	0.1%	0.1%	0.1%	0.2%
45 to 64 years	Flap reconstruction	405	31.9%	73.2	5.7%	1.2%	0.1%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of foot	255	50.6%	131.5	14.5%	3.5%	0.1%	0.1%	0.1%	0.1%
45 to 64 years	Laparoscopic enterotomy closure	185	68.6%	140.6	12.4%	5.4%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Laparoscopic lysis of adhesions	200	62.5%	100.2	9.0%	4.0%	0.1%	0.0%	0.0%	0.1%
45 to 64 years	Vitrectomy	2974	4.1%	10.0	0.4%	0.3%	0.0%	0.0%	0.0%	0.1%

45 to 64 years	Capsulorrhaphy or reconstruction, wrist	197	61.9%	159.3	16.8%	3.6%	0.0%	0.1%	0.1%	0.0%
45 to 64 years	Laparoscopic intestinal procedure	197	61.4%	163.6	14.2%	6.1%	0.0%	0.1%	0.0%	0.1%
45 to 64 years	Pancreatectomy	195	62.1%	162.4	19.0%	5.1%	0.0%	0.1%	0.1%	0.1%
45 to 64 years	Closure of enterostomy	181	65.7%	161.1	9.9%	4.4%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Removal of mammary implant	256	45.7%	81.3	3.5%	4.7%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Alveoloplasty	202	57.9%	80.7	16.8%	7.4%	0.0%	0.0%	0.1%	0.1%
45 to 64 years	CSF shunt	916	12.6%	32.6	2.7%	1.2%	0.0%	0.0%	0.1%	0.1%
45 to 64 years	Repair of fistula, oronasal or oromaxillary	168	68.5%	97.6	5.4%	4.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal or revision of sling for stress incontinence	215	52.1%	119.0	8.8%	7.4%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Salpingo-oophorectomy	184	60.3%	121.9	11.4%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Enterolysis - open	223	48.9%	121.9	8.1%	3.6%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Arthroscopy of elbow	196	55.6%	136.2	4.6%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tendon lengthening or shortening, lower extremity	205	51.7%	124.6	20.0%	3.9%	0.0%	0.0%	0.1%	0.1%
45 to 64 years	Plastic operation of penis to correct chordee or angulation	146	71.2%	104.0	6.8%	4.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transplantation of kidneys	237	43.5%	77.1	6.3%	1.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion or replacement of cranial neurostimulator pulse generator or receiver	202	51.0%	96.3	3.5%	12.4%	0.0%	0.0%	0.0%	0.2%
45 to 64 years	Incision and drainage of rectal, perirectal, or perianal abscess	157	65.6%	179.9	11.5%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of prepatellar bursa	182	56.0%	183.5	8.8%	4.4%	0.0%	0.1%	0.0%	0.1%
45 to 64 years	Incision and drainage, thigh or knee region	198	50.5%	128.3	9.6%	4.5%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Drainage of breast abscess	241	41.1%	78.0	5.4%	3.7%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Removal of tissue expander(s) without insertion of prosthesis	205	48.3%	95.3	3.4%	4.9%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Reinsertion of spinal fixation device	178	53.9%	323.4	33.1%	9.6%	0.0%	0.1%	0.2%	0.1%
45 to 64 years	Closure of the lacrimal punctum	10430	0.9%	6.6	0.3%	0.2%	0.0%	0.1%	0.1%	0.1%
45 to 64 years	Nerve transection	156	57.7%	89.6	11.5%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision or transposition of pterygium	735	11.7%	35.4	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic fulguration of oviducts (with or without transection)	127	66.9%	101.3	0.8%	1.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Prostatectomy - open	124	68.5%	90.5	5.6%	0.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Dacryocystorhinostomy	212	39.2%	42.3	4.2%	4.2%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium	413	19.1%	27.4	1.5%	1.9%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Repair of rectocele	139	56.8%	89.8	5.0%	5.8%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Appendectomy - open	138	57.2%	80.8	7.2%	2.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tympanostomy	808	9.7%	31.4	1.5%	1.0%	0.0%	0.0%	0.0%	0.1%

45 to 64 years	Tarsal tunnel release	166	47.0%	135.7	13.3%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exploration of penetrating wound	192	40.1%	77.8	7.8%	4.2%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Intestinal procedure, resection and anastomosis - laparoscopic	125	60.8%	148.8	11.2%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Neuroendoscopy, intracranial	154	48.7%	153.3	6.5%	0.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteoplasty of upper extremity	130	57.7%	138.0	12.3%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ligamentous reconstruction (augmentation), knee	142	52.1%	151.6	17.6%	3.5%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Sesamoidectomy, first toe	154	47.4%	128.5	5.8%	3.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exploratory laparotomy	139	52.5%	137.2	13.7%	2.9%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Keratoplasty	755	9.5%	21.5	1.7%	0.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of local lesion of epididymis	96	75.0%	109.5	5.2%	3.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Application of external fixation system	130	54.6%	158.7	26.2%	3.1%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Repair of primary, torn ligament and/or capsule, knee	119	58.8%	213.1	18.5%	5.0%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury	127	54.3%	157.7	12.6%	3.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tendon transfer, lower extremity	129	52.7%	324.5	30.2%	1.6%	0.0%	0.1%	0.1%	0.0%
45 to 64 years	Thoracoscopy, with pulmonary decortication	127	52.8%	166.9	18.1%	2.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage, leg or ankle	221	29.9%	135.6	9.5%	3.6%	0.0%	0.0%	0.1%	0.1%
45 to 64 years	Myomectomy, fibroid	203	32.5%	42.6	3.9%	0.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Aneurysm/pseudoaneurysm repair	106	62.3%	114.0	13.2%	4.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity	96	68.8%	278.2	29.2%	5.2%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Hysterectomy, extended - open	105	61.9%	133.5	8.6%	1.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arthroplasty of elbow	101	64.4%	199.6	20.8%	3.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of mandible or maxilla	119	52.9%	90.2	10.1%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Open treatment of rib fracture	91	68.1%	196.0	36.3%	5.5%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Excision of distal ulna	81	76.5%	183.5	18.5%	3.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Capsulodesis, metacarpophalangeal joint	89	67.4%	150.5	19.1%	5.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of thyroglossal duct cyst or sinus	94	62.8%	95.6	1.1%	1.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exploration of artery without surgical repair	93	63.4%	133.9	17.2%	9.7%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Cystorrhaphy, suture of bladder wound, injury or rupture	90	65.6%	134.1	7.8%	4.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laser enucleation of the prostate with morcellation	271	21.4%	20.7	1.1%	0.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling	137	42.3%	62.5	6.6%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation, removal, or replacement of osseointegrated implant, temporal bone	110	52.7%	125.0	5.5%	0.9%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Capsulectomy or capsulotomy, hand	106	54.7%	91.3	15.1%	4.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Palatopharyngoplasty	101	57.4%	234.1	23.8%	3.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, excision of pericardial or mediastinal mass	71	81.7%	222.7	22.5%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Rib excision	103	55.3%	158.6	13.6%	10.7%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Resection or excision of neoplastic, vascular or infectious lesion, intracranial	97	58.8%	128.9	16.5%	3.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureteroneocystostomy	86	65.1%	115.7	12.8%	1.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of implant; superficial (eg, buried wire, pin or rod)	489	11.2%	26.3	3.5%	0.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of nonunion or malunion, foot bones	102	53.9%	170.3	18.6%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Mastoidectomy	84	65.5%	91.8	8.3%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ligation or banding of angioaccess arteriovenous fistula	138	39.1%	45.1	4.3%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tenodesis, hand	84	63.1%	157.8	13.1%	2.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteotomy of upper extremity	80	65.0%	156.7	11.3%	2.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Embolectomy or thrombectomy	108	47.2%	141.5	14.8%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cranioplasty	95	53.7%	145.8	7.4%	3.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Plastic repair of salivary duct, sialodochoplasty	88	56.8%	78.5	5.7%	2.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Nipple exploration or reconstruction	222	22.1%	29.2	2.7%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of ectropion	189	25.9%	41.6	1.6%	3.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Orbitotomy	153	32.0%	53.8	3.3%	0.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ablation of intra-abdominal tumor or benign lesion - laparoscopic	78	62.8%	102.7	10.3%	2.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic hernia repair	72	68.1%	168.1	5.6%	4.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transcatheter placement of intravascular stent - percutaneous	245	19.6%	23.2	1.6%	3.3%	0.0%	0.0%	0.0%	0.1%
45 to 64 years	Muscle transfer, upper extremity	104	46.2%	110.0	14.4%	4.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of Bartholin's gland or cyst	99	48.5%	70.4	6.1%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release	74	64.9%	136.3	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, with pleurodesis	123	38.2%	137.9	10.6%	2.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Colostomy - open	91	51.6%	119.6	15.4%	5.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laryngoplasty	86	54.7%	161.8	8.1%	3.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Proctopexy - laparoscopic	74	63.5%	244.1	9.5%	8.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision of bone cortex, shoulder and upper extremity	72	65.3%	111.5	8.3%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of metatarsal or toe	105	43.8%	65.1	6.7%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of synovial cyst of popliteal space	80	57.5%	130.7	11.3%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Patellectomy or hemipatellectomy	70	64.3%	215.9	17.1%	2.9%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Cystectomy	75	58.7%	79.7	9.3%	2.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of inflatable urethral/bladder neck sphincter, including placement of pump, reservoir, and cuff	63	69.8%	89.1	7.9%	4.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, with thymectomy	59	74.6%	149.3	13.6%	8.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of mucosa and submucosa, vestibule of mouth	124	34.7%	25.5	2.4%	2.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of trochanteric bursa or calcification	80	53.8%	178.0	26.3%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ethmoidectomy	74	58.1%	65.4	4.1%	2.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth	71	60.6%	85.0	8.5%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of cyst or adenoma of thyroid, or transection of isthmus	77	54.5%	60.1	6.5%	3.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Varicocele repair	66	63.6%	75.1	6.1%	1.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of vaginal cyst or tumor	260	15.8%	18.5	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision of bone cortex, pelvis and lower extremity	99	41.4%	131.7	14.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Uvulectomy, excision of uvula	82	50.0%	82.5	3.7%	4.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Decompression fasciotomy of lower extremity	72	56.9%	156.1	26.4%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Urethrolisis, transvaginal, secondary - open, including cystourethroscopy (eg, postsurgical obstruction, scarring)	71	57.7%	87.1	9.9%	9.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cystotomy or cystostomy	112	35.7%	51.7	11.6%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Burr hole(s) or trephine	99	40.4%	79.7	6.1%	6.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Paravaginal defect repair - laparoscopic	84	47.6%	70.4	2.4%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Esophagectomy	63	63.5%	263.1	25.4%	4.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Epididymectomy	52	76.9%	142.6	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of face	75	52.0%	89.9	13.3%	5.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone	57	68.4%	153.6	19.3%	3.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of hand interphalangeal joint	55	70.9%	140.6	10.9%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic esophagus procedure sphincter augmentation	54	72.2%	89.4	3.7%	3.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision (including removal) of prosthetic vaginal graft - open	86	44.2%	133.8	7.0%	5.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of penile plaque	55	69.1%	95.2	7.3%	5.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Creation of pericardial window	86	43.0%	66.7	5.8%	3.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Maxillectomy	66	56.1%	83.7	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Infratemporal pre-auricular approach to middle cranial fossa	60	61.7%	183.3	5.0%	5.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury	57	64.9%	98.4	8.8%	7.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteotomy of clavicle	58	62.1%	286.8	22.4%	3.4%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Reconstruction of tendon pulley; finger	56	64.3%	114.3	5.4%	1.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arthroplasty of temporomandibular joint	51	70.6%	208.7	13.7%	11.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Proctopexy - open	49	71.4%	164.5	10.2%	10.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, intestinal hernia and volvulus derotation open laparotomy	67	50.7%	91.3	14.9%	4.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Liver transplantation	66	51.5%	172.2	13.6%	3.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of stomach ulcer or tumor	50	68.0%	96.0	18.0%	6.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of blood vessel	160	20.6%	40.2	7.5%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Proctoplasty	61	54.1%	111.9	11.5%	6.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteochondral allograft, knee - open	56	58.9%	254.1	23.2%	1.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic occlusion of oviducts by device (eg, band, clip, or Falope ring)	52	63.5%	100.0	0.0%	5.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Scrotoplasty	46	71.7%	98.0	13.0%	10.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision and repair of eyelid	248	12.9%	21.0	1.2%	0.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tenolysis, lower extremity	90	35.6%	99.4	3.3%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic sling operation for stress incontinence (eg, fascia or synthetic)	50	64.0%	94.0	6.0%	2.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa	44	72.7%	158.9	2.3%	6.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intracranial aneurysm repair - open	96	32.3%	187.0	8.3%	1.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Colostomy - laparoscopic	59	52.5%	191.9	25.4%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of shoulder	57	54.4%	247.6	29.8%	10.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Biliary reconstruction - open	46	67.4%	153.4	13.0%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sling operation for correction of male urinary incontinence	44	70.5%	165.1	6.8%	2.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Conjunctival flap	166	18.1%	12.4	1.2%	1.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thymectomy, with or without lymphadenectomy	53	56.6%	169.7	13.2%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Elbow ligament reconstruction	48	62.5%	250.9	10.4%	2.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis	37	81.1%	283.9	13.5%	5.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Mastopexy	73	39.7%	70.2	1.4%	4.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Splenectomy - laparoscopic	44	65.9%	175.0	9.1%	2.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lip	105	26.7%	71.8	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with pulmonary decortication	52	53.8%	234.4	25.0%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Splenectomy - open	51	54.9%	97.5	7.8%	2.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic bladder procedure	45	62.2%	138.4	4.4%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Enucleation of eye	51	52.9%	190.3	7.8%	3.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sternal ostectomy, debridement, resection	40	67.5%	110.7	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Capsulotomy, foot and/or toes	216	12.0%	30.2	1.9%	0.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion	85	30.6%	46.9	5.9%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of prosthesis, knee	53	49.1%	297.6	32.1%	5.7%	0.0%	0.0%	0.1%	0.0%
45 to 64 years	Exploration for postoperative hemorrhage, thrombosis or infection	49	53.1%	307.9	20.4%	4.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, ileostomy or jejunostomy	39	66.7%	178.8	20.5%	2.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of mediastinal tumor	38	68.4%	247.6	18.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Correction of lid retraction	92	27.2%	39.6	1.1%	3.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of diaphragm	42	59.5%	101.3	11.9%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision or destruction of lingual tonsil, any method (separate procedure)	39	64.1%	119.4	33.3%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Fascia lata graft	37	67.6%	123.4	10.8%	10.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage, pelvis or hip joint area	60	40.0%	104.0	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of meniscus or capsule, knee	49	49.0%	64.0	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of enterocele	31	77.4%	197.0	6.5%	9.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of cardiac tumor with cardiopulmonary bypass	30	80.0%	140.5	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Spine bony resection	35	65.7%	248.7	22.9%	8.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Endolymphatic sac operation	39	56.4%	71.3	7.7%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Neurectomy	39	56.4%	190.4	10.3%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Secondary repair of dura for cerebrospinal fluid leak	39	56.4%	100.7	12.8%	7.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Oophrectomy	33	66.7%	203.6	15.2%	3.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of tunica vaginalis hydrocele	32	68.8%	56.7	3.1%	3.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Plastic repair of canaliculi	87	24.1%	53.6	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Canthoplasty	85	24.7%	20.1	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sialolithotomy	53	39.6%	41.3	1.9%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage of abscess in posterior spine	46	45.7%	198.5	8.7%	10.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thrombectomy of arterial or venous graft	40	52.5%	129.8	22.5%	2.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ablation of intraabdominal tumor or benign lesion ♦ open	31	67.7%	115.8	12.9%	3.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Radical resection of tumor, bone	29	72.4%	345.3	24.1%	3.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	TIPS	162	12.3%	37.6	2.5%	0.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Capsulectomy or capsulotomy, hip	39	51.3%	123.5	7.7%	5.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Umbilectomy, omphalectomy, excision of umbilicus	32	62.5%	76.8	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Debridement of sternum	30	66.7%	155.2	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tracheostomy	117	16.2%	78.3	5.1%	0.0%	0.0%	0.0%	0.0%	0.0%



45 to 64 years	Vaginectomy	50	38.0%	71.5	6.0%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sinusotomy, with or without reconstruction	35	54.3%	142.0	14.3%	2.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of intestinal fistula	34	55.9%	184.1	17.6%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of paraesophageal hiatal hernia (including fundoplication)	32	59.4%	145.7	18.8%	6.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of spermatic cord	24	79.2%	77.0	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic gastrostomy, without construction of gastric tube	39	46.2%	147.1	25.6%	7.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tubercleplasty of anterior tibia	34	52.9%	184.9	29.4%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intracranial arteriovenous malformation repair	33	54.5%	101.8	9.1%	12.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of chest wall tumor, including ribs	31	58.1%	151.3	22.6%	12.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Evisceration of ocular contents	30	60.0%	271.0	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of entropion	91	18.7%	30.3	4.4%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of toe	41	41.5%	178.0	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Perineoplasty, repair of perineum, nonobstetrical	38	44.7%	53.1	2.6%	5.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Operative tissue ablation and reconstruction of atria - endoscopic	34	50.0%	92.7	5.9%	2.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Lateral retinacular release - open	28	60.7%	339.3	28.6%	7.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Orchiopexy	26	65.4%	69.2	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Adrenalectomy - open	25	68.0%	103.0	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal and/or replacement of inflatable urethral/bladder neck sphincter	21	81.0%	92.3	4.8%	9.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Destruction of localized lesion of retina	1431	1.1%	6.7	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Capsulotomy, posterior capsular release, knee	28	57.1%	196.5	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of urethral diverticulum	28	57.1%	63.3	10.7%	3.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cystolithotomy, cystotomy with removal of calculus	27	59.3%	99.3	3.7%	3.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ocular surface reconstruction	107	14.0%	20.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cryosurgical ablation of the prostate	55	27.3%	48.8	7.3%	1.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Division of plantar fascia and muscle	39	38.5%	75.3	7.7%	2.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureterolysis	33	45.5%	336.1	12.1%	6.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of peritoneal abscess - open	32	46.9%	86.6	15.6%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Muscle repair, hand	24	62.5%	132.8	16.7%	4.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of vaginal fistula	23	65.2%	105.7	4.3%	13.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic fibroid ablation	23	65.2%	60.3	4.3%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of diaphragm	23	65.2%	152.1	13.0%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of bone tumor	23	65.2%	203.2	26.1%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Coccygectomy, primary	22	68.2%	368.1	22.7%	4.5%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Aqueous shunt to extraocular equatorial plate reservoir	387	3.6%	9.6	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ciliary body destruction	263	5.3%	4.0	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Endovascular aortic valve replacement	183	7.7%	20.2	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Gastrostomy	27	51.9%	148.9	14.8%	7.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of branchial cleft cyst, vestige, or fistula	26	53.8%	121.3	7.7%	7.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic ureteral procedure	21	66.7%	109.2	14.3%	4.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureteroileal conduit (ileal bladder), including intestine anastomosis	17	82.4%	230.0	23.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of rectal procidentia	16	87.5%	137.7	37.5%	6.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of implanted material, eye	307	4.2%	20.0	1.3%	0.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of interlaminar/interspinous process stabilization/distraction device	38	34.2%	94.0	13.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of infected graft	34	38.2%	110.4	5.9%	2.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Extensor tendon centralization, hand	32	40.6%	122.6	12.5%	3.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Decompression fasciotomy of upper extremity	30	43.3%	193.9	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Capsulotomy, wrist	29	44.8%	75.6	6.9%	3.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Nasal/sinus endoscopy	26	50.0%	235.2	19.2%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Urethrotomy	26	50.0%	41.6	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Division of scalenus anticus	22	59.1%	131.7	18.2%	4.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of palate or extensive resection of lesion	22	59.1%	241.6	31.8%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Alveolectomy	20	65.0%	60.1	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic rectal procedure	20	65.0%	189.8	20.0%	5.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Diaphragmatic repair	18	72.2%	204.1	16.7%	5.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision (including removal) of prosthetic vaginal graft - laparoscopic	18	72.2%	224.9	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of rectovesical fistula	17	76.5%	176.8	17.6%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lactiferous duct fistula	16	81.3%	121.6	6.3%	6.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Surgical closure tracheostomy or fistula, with or without plastic repair	44	27.3%	45.9	6.8%	2.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of gastric restrictive procedure for morbid obesity, other than adjustable gastric restrictive device - open	26	46.2%	215.6	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion or tumor, dentoalveolar structures	22	54.5%	41.4	4.5%	4.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of peritoneal foreign body from peritoneal cavity	22	54.5%	168.3	22.7%	4.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Facelift	19	63.2%	160.0	10.5%	5.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone	18	66.7%	111.5	5.6%	5.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic biliary procedure	18	66.7%	88.3	11.1%	11.1%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Exclusion or fulguration of urethra	53	20.8%	36.7	3.8%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of eye laceration	46	23.9%	77.9	6.5%	2.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Construction of tracheoesophageal fistula and subsequent insertion of an alaryngeal speech prosthesis	43	25.6%	22.2	2.3%	4.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, repair	28	39.3%	62.8	14.3%	7.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exploration, retroperitoneal area with or without biopsy(s)	23	47.8%	87.8	13.0%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of gastroduodenal or gastrojejunal anastomosis	23	47.8%	201.1	13.0%	13.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Gastrojejunostomy	22	50.0%	139.3	36.4%	9.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Syndactylization, toes	22	50.0%	185.2	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Capsulorrhaphy, shoulder	20	55.0%	264.3	10.0%	5.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Open treatment of spinal fracture	17	64.7%	175.7	23.5%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Division of sternocleidomastoid	16	68.8%	56.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Twist drill hole for subdural, intracerebral, or ventricular puncture	29	34.5%	85.2	3.4%	3.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of dislocating patella	25	40.0%	139.8	20.0%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureterotomy	25	40.0%	241.6	16.0%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Non-surgical repair of anal or anorectal fistula	17	58.8%	93.7	5.9%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Radial styloidectomy	17	58.8%	327.4	11.8%	5.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Placement of enterostomy or cecostomy, tube open	16	62.5%	132.8	37.5%	12.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Labyrinthectomy	14	71.4%	137.0	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Release of intrinsic muscles of hand	14	71.4%	120.9	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Vasovasostomy, vasovasorrhaphy	11	90.9%	111.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Fistulization of sclera for glaucoma	282	3.2%	6.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision or repair of operative wound of anterior segment of eye	198	4.5%	8.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of external auditory canal	31	29.0%	23.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of scrotum	26	34.6%	29.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of tendon, hand	25	36.0%	102.1	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Suture of mesentery	22	40.9%	58.4	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Filletted finger or toe flap, including preparation of recipient site	18	50.0%	70.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Medianstintomy	18	50.0%	73.5	11.1%	5.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Autologous chondrocyte implantation, knee	16	56.3%	123.4	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of Meckel's diverticulum or omphalomesenteric duct	16	56.3%	66.2	6.3%	6.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity	16	56.3%	110.2	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Excision of radial head	13	69.2%	159.2	38.5%	7.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of urachal cyst or sinus	13	69.2%	77.7	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of pharyngeal wall	12	75.0%	457.5	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - laparoscopic	11	81.8%	186.2	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of recurrent ovarian, tubal, primary peritoneal, uterine malignancy	20	40.0%	98.5	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Corpora cavernosa shunts fore priapism	19	42.1%	32.1	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Anoplasty	16	50.0%	82.5	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Diverticulectomy of hypopharynx or esophagus	14	57.1%	229.5	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of vena cava, any method	13	61.5%	95.4	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of prosthesis, shoulder	13	61.5%	141.5	53.8%	23.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of extraparenchymal lesion of testis	12	66.7%	192.3	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pericardiectomy	12	66.7%	96.9	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transfer of tendon of fingers	12	66.7%	132.1	25.0%	8.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity	11	72.7%	279.8	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic transection of vagus nerves	11	72.7%	182.6	27.3%	18.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pyloroplasty	8	100.0%	127.3	37.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pericardial drainage	82	8.5%	16.6	4.9%	1.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cardiac procedure, unlisted	23	30.4%	56.4	4.3%	4.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Canthopexy	22	31.8%	23.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Vestibuloplasty	20	35.0%	49.9	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of implant from finger or hand	18	38.9%	54.5	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Paravaginal defect repair - open	17	41.2%	62.6	17.6%	11.8%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tracheotomy, with or without lymph node dissection	17	41.2%	152.1	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Omentectomy, epiploectomy, resection of omentum	15	46.7%	76.0	6.7%	13.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of osseous tuberosities, dentoalveolar structures	13	53.8%	41.9	23.1%	23.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, with sympathectomy	13	53.8%	95.8	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Plastic operation of penis for injury	12	58.3%	95.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transoral approach to skull base, brain stem or upper spinal cord for biopsy	12	58.3%	150.6	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tendon lengthening or shortening, upper extremity	11	63.6%	413.0	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of tongue	10	70.0%	99.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pulmonary valve repair/replacement - open	10	70.0%	105.8	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Diaphragmatic hernia repair (other than neonatal)	9	77.8%	148.6	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Excision of aural glomus tumor	9	77.8%	53.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision or unroofing of cyst(s) of kidney	8	87.5%	109.1	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Urethrectomy, total, including cystostomy	8	87.5%	187.5	12.5%	12.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of aqueous shunt to extraocular equatorial plate reservoir	59	10.2%	29.8	5.1%	3.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization	25	24.0%	43.6	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tracheostoma revision	21	28.6%	103.1	14.3%	9.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Frenoplasty	18	33.3%	34.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of frenum, labial or buccal	16	37.5%	40.9	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tissue expander placement, excluding breast	16	37.5%	68.9	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ovarian cystectomy	15	40.0%	62.7	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparotomy	14	42.9%	167.3	7.1%	7.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Enterotomy	13	46.2%	50.2	23.1%	15.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, resection and enterostomy	13	46.2%	276.1	15.4%	15.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of orbital implant	12	50.0%	67.9	8.3%	8.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Amputation of penis	11	54.5%	60.0	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pancreatic cyst or psuedocyst repair	11	54.5%	110.5	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of synthetic rod and insertion of tendon graft in hand or finger	11	54.5%	91.6	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of arteriovenous fistula, congenital	11	54.5%	43.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of femoral anastomosis of synthetic arterial bypass graft in groin	11	54.5%	299.3	36.4%	18.2%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transfer external oblique muscle to greater trochanter including fascial or tendon extension (graft)	10	60.0%	139.5	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arthroscopy of hand	9	66.7%	77.8	22.2%	11.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Esophagogastric fundoplasty	9	66.7%	119.3	33.3%	11.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of presacral or sacrococcygeal tumor	9	66.7%	192.5	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy	8	75.0%	272.5	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Coronoidectomy	7	85.7%	87.9	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of anomalous coronary artery from pulmonary artery origin	7	85.7%	156.8	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Decompression of internal auditory canal	6	100.0%	110.4	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Injection of medication or other substance into Tenon's capsule	777	0.6%	2.6	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Follicle puncture for oocyte retrieval	199	2.5%	1.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cardiac ablation	74	6.8%	22.3	1.4%	1.4%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of eyelid	25	20.0%	18.8	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Excision of exostosis(es), external auditory canal	23	21.7%	12.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hypophysectomy or excision of pituitary tumor	22	22.7%	39.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of dural/cerebrospinal fluid leak or pseudomeningocele, with laminectomy	14	35.7%	156.8	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of esophageal sphincter augmentation device	11	45.5%	140.7	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of tracheostomy scar	11	45.5%	39.8	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Heart transplant	10	50.0%	61.8	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Lung transplant	10	50.0%	94.0	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Elevation of depressed skull fracture	9	55.6%	277.5	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ligation or transection of fallopian tube(s)	9	55.6%	286.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of transplanted renal allograft	9	55.6%	91.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Rhinectomy	9	55.6%	116.9	22.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of palate, uvula	8	62.5%	151.9	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic uterine procedure	8	62.5%	39.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with control of traumatic hemorrhage and/or repair of lung tear	8	62.5%	148.1	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pterygomaxillary fossa surgery	7	71.4%	59.6	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of mediastinal cyst	7	71.4%	178.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, with pleurectomy	7	71.4%	385.7	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Temporary closure of eyelids by suture	54	7.4%	9.1	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of fingertip	28	14.3%	17.5	3.6%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Trachelorrhaphy, plastic repair of uterine cervix, vaginal approach	20	20.0%	17.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteoplasty of facial bones	15	26.7%	24.5	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of tendon sheath, forearm and/or wrist	14	28.6%	41.6	7.1%	7.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hyoid myotomy and suspension	13	30.8%	77.5	7.7%	7.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of carotid body tumor	12	33.3%	34.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ectopic pregnancy surgery	10	40.0%	34.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of tendon of hand or finger	10	40.0%	108.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of ankle implant	10	40.0%	56.3	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of atrial and/or ventricular septal defects	10	40.0%	77.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of salivary gland abscess	8	50.0%	121.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteotomy of facial bones	8	50.0%	65.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of dural/cerebrospinal fluid leak, not requiring laminectomy	8	50.0%	165.0	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Vesicourethropexy or urethropexy, anterior	8	50.0%	71.9	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Colotomy	7	57.1%	55.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Division of stricture of rectum	7	57.1%	40.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of pancreas (eg, cyst, adenoma)	7	57.1%	100.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic renal procedure	7	57.1%	61.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Salpingectomy	7	57.1%	104.3	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with exploration	7	57.1%	114.3	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with resection-plication of bullae, includes any pleural procedure when performed	7	57.1%	102.1	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Condylectomy of temporomandibular joint	6	66.7%	103.3	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Control of nasopharyngeal or oropharyngeal hemorrhage	6	66.7%	106.7	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Epiphyseal or hemiepiphyseal arrest, lower extremity	6	66.7%	187.3	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of cystic hygroma	6	66.7%	65.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, lysis of adhesions	6	66.7%	65.8	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Tracheoplasty	6	66.7%	187.5	16.7%	33.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ventriculocisternostomy, third ventricle	6	66.7%	126.7	16.7%	16.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of cystostomy	5	80.0%	126.0	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of ureterocutaneous fistula	5	80.0%	304.5	40.0%	20.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Facial nerve reconstruction or repair	5	80.0%	355.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic ovarian procedure	5	80.0%	68.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pyeloplasty	5	80.0%	122.0	40.0%	20.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cardiotomy, exploratory	4	100.0%	197.5	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Epiglottidectomy	4	100.0%	206.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, excision of ileoanal reservoir with ileostomy	4	100.0%	234.4	75.0%	25.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic testicular procedure	4	100.0%	109.4	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Myocardial resection	4	100.0%	263.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureteroplasty	4	100.0%	158.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thrombectomy or thrombolysis, percutaneous intracranial	144	2.1%	9.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of lens material	79	3.8%	4.4	1.3%	1.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Multiple punctures of anterior cornea (eg, for corneal erosion, tattoo)	35	8.6%	19.4	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Correction of lagophthalmos	15	20.0%	125.1	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of retroperitoneal abscess - open	11	27.3%	38.6	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic appendix procedure	11	27.3%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of cranial neurostimulator pulse generator or receiver	11	27.3%	28.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Excision of pelvic pressure ulcer	10	30.0%	26.8	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Endovascular repair of iliac artery	8	37.5%	39.4	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision tracheal stenosis and anastomosis	8	37.5%	69.4	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Genioplasty	8	37.5%	90.6	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pelvic exenteration	8	37.5%	101.3	12.5%	12.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pharyngoplasty	8	37.5%	51.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of hip prosthesis	8	37.5%	145.9	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Abdominal wall repair, dehiscence	7	42.9%	93.2	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Acetabuloplasty	7	42.9%	83.6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Colpoperineorrhaphy	7	42.9%	65.4	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Gender affirming procedure, male to female	7	42.9%	849.3	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of testicular prosthesis	7	42.9%	68.2	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of vaginal septum	6	50.0%	81.7	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of ventricular assist device	6	50.0%	127.5	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic urethral suspension for stress incontinence	6	50.0%	80.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laryngotomy	6	50.0%	91.7	33.3%	16.7%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Nephrolithotomy	6	50.0%	56.3	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of syndactyly	6	50.0%	56.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exenteration of orbit	5	60.0%	76.0	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Nasal septum reconstruction	5	60.0%	50.0	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)	5	60.0%	44.0	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Esophagomyotomy	4	75.0%	102.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation of artificial heart	4	75.0%	65.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of entire lumbosubarachnoid shunt system without replacement	4	75.0%	144.4	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Plastic operation on urethral sphincter, vaginal approach	3	100.0%	126.7	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exchange of intraocular lens	178	1.1%	1.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repositioning of intraocular lens prosthesis, requiring an incision	64	3.1%	1.4	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transcatheter mitral valve repair	40	5.0%	13.3	2.5%	2.5%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Severing adhesions of anterior segment of eye	36	5.6%	3.1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Iridectomy, with corneoscleral or corneal section	30	6.7%	3.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy	28	7.1%	4.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transcatheter placement of intravascular stent(s), intracranial	25	8.0%	8.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



45 to 64 years	Implantation of intrastromal corneal ring segments	24	8.3%	3.8	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic esophagus procedure	17	11.8%	21.8	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laryngectomy, pharyngectomy, pharyngolaryngectomy	11	18.2%	57.3	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal or revision of orbital implant	10	20.0%	11.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Stereotactic implantation of depth electrodes into the cerebrum for long-term seizure monitoring	10	20.0%	18.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Operative tissue ablation and reconstruction of atria - open	9	22.2%	58.3	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Vermilionectomy, with mucosal advancement	9	22.2%	31.7	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, creation of pericardial window	8	25.0%	51.3	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Debridement of shoulder	7	28.6%	27.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sympathectomy	7	28.6%	35.4	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hypospadias repair	6	33.3%	48.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Septal or other intranasal dermatoplasty	6	33.3%	23.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transrectal drainage of pelvic abscess	6	33.3%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureterolithotomy - laparoscopic	6	33.3%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of peritoneal-venous shunt	5	40.0%	52.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, strictuloplasty	5	40.0%	32.5	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Release or recession, hamstring, proximal	5	40.0%	85.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of foreign body, shoulder	5	40.0%	19.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal or repair of electromagnetic bone conduction hearing device in temporal bone	5	40.0%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of choanal atresia	5	40.0%	52.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Replacement, irrigation or revision of lumbosubarachnoid shunt	5	40.0%	90.0	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of urinary-cutaneous anastomosis	5	40.0%	19.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transfer of iliopsoas to femur	5	40.0%	120.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureteroureterostomy	5	40.0%	27.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Augmentation of mandibular body or angle	4	50.0%	225.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of subdiaphragmatic or subphrenic abscess - open	4	50.0%	35.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Nephrostomy and/or nephrotomy	4	50.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of ileoanal pouch fistula/sinus	4	50.0%	62.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Uterine suspension	4	50.0%	60.0	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Atrial septectomy or septostomy	3	66.7%	83.3	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hernia repair, lumbar	3	66.7%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic fimbrioplasty	3	66.7%	78.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Marsupialization of cyst or abscess of liver	3	66.7%	42.5	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pulmonary endarterectomy	3	66.7%	225.0	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reduction of torsion of testis	3	66.7%	658.3	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of epithelial downgrowth, anterior chamber of eye	3	66.7%	48.3	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal or revision of sling for male urinary incontinence (eg, fascia or synthetic)	3	66.7%	910.0	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Suture or repair of testicular injury	3	66.7%	80.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of inflatable urethral/bladder neck sphincter, including pump, reservoir, and cuff	2	100.0%	217.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sequestrectomy of shoulder	2	100.0%	277.5	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Suture of esophageal wound or injury	2	100.0%	915.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureteroenterostomy	2	100.0%	225.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of symblepharon	13	7.7%	5.8	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Paracentesis of anterior chamber of eye	12	8.3%	25.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation of chemotherapy device	11	9.1%	8.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lacrimal gland or lacrimal gland tumor	8	12.5%	12.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Lymphangiectomy or other operations on lymphatic channels	8	12.5%	9.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Plastic repair of introitus	8	12.5%	7.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cricopharyngeal myotomy	7	14.3%	5.4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Optic nerve decompression	7	14.3%	30.0	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of vitreous, anterior approach	7	14.3%	10.7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of perirenal or renal abscess - open	6	16.7%	24.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of wrist	6	16.7%	12.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of tonsil tags	5	20.0%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Liver debridement	5	20.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of prosthesis, upper extremity	5	20.0%	45.0	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Replantation, upper extremity	5	20.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arterial transposition	4	25.0%	150.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Duodenotomy	4	25.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of cervical stump	4	25.0%	45.0	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage of abscess; retropharyngeal or parapharyngeal	4	25.0%	22.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of ocular implants	4	25.0%	7.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of stapedectomy or stapedotomy	4	25.0%	18.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sesamoidectomy, thumb or finger	4	25.0%	15.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Application of halo, including removal	3	33.3%	50.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Closure of salivary fistula	3	33.3%	125.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Creation of lesion by stereotactic method	3	33.3%	25.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Fixation of contralateral testis	3	33.3%	50.0	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of subcutaneous reservoir, pump or continuous infusion system for connection to ventricular catheter (CNS)	3	33.3%	70.0	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of vascular pedicle into carpal bone (eg, Hori procedure)	3	33.3%	33.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteotomy of spine	3	33.3%	200.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Palatoplasty	3	33.3%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstructive repair of pectus excavatum or carinatum	3	33.3%	75.0	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Renal exploration	3	33.3%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transcatheter placement of intravascular stent - open	3	33.3%	50.0	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transplantation of pancreas	3	33.3%	50.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Urethrorrhaphy	3	33.3%	33.3	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cricotracheal resection	2	50.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Epididymovasostomy, anastomosis of epididymis to vas deferens	2	50.0%	500.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hand, cross intrinsic transfer	2	50.0%	281.3	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Major reconstruction, chest wall	2	50.0%	210.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Marsupialization of urethral diverticulum, male or female	2	50.0%	37.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Occlusion of fallopian tube(s) by device	2	50.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteotomy of pelvis	2	50.0%	96.0	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of ocular implant	2	50.0%	30.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of encephalocele, skull vault, including cranioplasty	2	50.0%	72.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of apical lung tumor	2	50.0%	450.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis	2	50.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, control of hemorrhage	2	50.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracostomy, chest drainage with rib resection or flap	2	50.0%	140.0	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, for postoperative complications	2	50.0%	105.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Arthrotomy of temporomandibular joint	1	100.0%	90.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Chest wall reconstruction	1	100.0%	600.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of postauricular fistula, mastoid	1	100.0%	750.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Endovascular access	1	100.0%	150.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of ampulla of Vater	1	100.0%	60.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Gingivoplasty	1	100.0%	150.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Induced abortion	1	100.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic endocrine procedure	1	100.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pericardiotomy for removal of clot or foreign body	1	100.0%	450.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pyelotomy	1	100.0%	70.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of cardiac wound	1	100.0%	200.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of complex cardiac anomalies	1	100.0%	100.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of postinfarction ventricular septal defect	1	100.0%	210.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of round window fistula	1	100.0%	112.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Replacement of all or part of ureter by intestine segment, including intestine anastomosis	1	100.0%	1350.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Revision of lower extremity arterial bypass	1	100.0%	300.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Surgical ventricular restoration procedure	1	100.0%	225.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Suture and/or ligation of thoracic duct	1	100.0%	225.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thrombectomy	1	100.0%	500.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transplantation of testis(es) to thigh	1	100.0%	225.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Urinary undiversion	1	100.0%	75.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Venous bypass, lower extremity	1	100.0%	150.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Embryo transfer, intrauterine	342	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Goniotomy	119	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Placement of needle for intraosseous infusion	56	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of intraocular lens prosthesis, not associated with concurrent cataract removal	40	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of foreign body, intraocular	20	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cerclage of cervix, during pregnancy	16	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transcatheter pulmonary valve implantation	16	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Corneal relaxing incision for correction of surgically induced astigmatism	15	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Aspiration or release of vitreous, subretinal or choroidal fluid, pars plana approach	13	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Severing adhesions of anterior segment of eye, laser	13	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Venous bypass, abdominal - open	13	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Scleral reinforcement	10	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of iris, ciliary body	8	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion, conjunctiva	7	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Suture of iris, ciliary body	7	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Angioplasty, intracranial - percutaneous	6	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Release of extensive scar tissue without detaching extraocular muscle (separate procedure)	5	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Colpocleisis (Le Fort type)	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Denervation of hip joint	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation of intravitreal drug delivery system, includes concomitant removal of vitreous	4	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of external ear	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion of mesentery	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Lysis of adhesions (salpingolysis, ovariolysis)	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Meniscectomy of temporomandibular joint	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Quadricepsplasty (eg, Bennett or Thompson type)	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with cardiac massage	3	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cleft lip repair	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cutaneous appendico-vesicostomy	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Cystoplasty or cystourethroplasty	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	ECMO	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lacrimal sac	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of lesion, sclera	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of tracheal tumor or carcinoma	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exploration, repair, and presacral drainage for rectal injury	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Extrapleural enucleation of empyema	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Gender affirming procedure, clitoroplasty	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic spleen procedure	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laryngeal reinnervation by neuromuscular pedicle	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Management of liver hemorrhage	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Osteoplasty of lower extremity	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Other tissue grafts	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ptosis correction	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of blood clot, anterior segment of eye	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of foreign body from deep penile tissue (eg, plastic implant)	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Sequestrectomy of bone in upper extremity	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Stapes mobilization	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with removal of intrapleural foreign body or fibrin deposit	2	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Abdomino-vaginal vesical neck suspension	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Aortic root translocation with ventricular septal defect and pulmonary stenosis repair	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of esophagostomy or fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of gastrocolic fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Closure of nephrocutaneous or pyelocutaneous fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Coracoacromial ligament release	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Corneal wedge resection for correction of surgically induced astigmatism	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Decompression of orbit only, transcranial approach	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Disarticulation through wrist	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Discission of secondary membranous cataract	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of extraperitoneal lymphocele to peritoneal cavity - open	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Drainage of ovarian cyst(s), abdominal approach	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Esophagostomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of bile duct tumor	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Excision of bulbourethral gland (Cowper's gland)	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Exclusion of small intestine from pelvis by mesh or other prosthesis, or native tissue	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Fertility procedures	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Gastrointestinal reconstruction for previous esophagectomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Hand, soft tissue reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - open	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision and drainage of appendiceal abscess - open	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Incision of neck or thorax	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Insertion of tandem cuff	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Intestinal procedure, plication	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Iridotomy by stab incision	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Laparoscopic salpingostomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Obliteration of carotid aneurysm, arteriovenous malformation, or carotid-cavernous fistula by dissection within cavernous sinus	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pereyra procedure, including anterior colporrhaphy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Placement of drains, peripancreatic, for acute pancreatitis	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Pulmonary artery embolectomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Reconstruction of congenital hand polydactyly	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of intestinal transplant	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

45 to 64 years	Removal of intra-aortic balloon assist device	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Removal of pancreatic transplant	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of anterior palate, including vomer flap	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of coronary arteriovenous or arteriocardiac chamber fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of fascial defect of leg	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of nasolabial fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of oval window fistula	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of scleral staphyloma	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Repair of wound, extraocular muscle, tendon and/or Tenon's capsule	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection of pericardial cyst or tumor	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Resection or debridement of pancreas and peripancreatic tissue for acute necrotizing pancreatitis	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Shoulder contracture release	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracoscopy, evacuation of pericardium	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Thoracotomy, with open intrapleural pneumonolysis	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Trabeculectomy ab externo	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transduodenal sphincterotomy or sphincteroplasty	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transfer of adductor to ischium	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Transfer of tendon or muscle, hamstrings to femur	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Ureterolithotomy - open	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45 to 64 years	Vesiculotomy	1	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

**eAppendix 4. List of Opioids and Their MME Conversion Factors**

<b>Opioid (strength in mg except where noted)</b>	<b>MME Conversion Factor</b>
Buprenorphine, transdermal patch (MCG/HR)	12.6
Buprenorphine, buccal film (MCG)	0.03
Butorphanol	7
Codeine	0.15
Dihydrocodeine	0.25
Fentanyl, buccal/SL tablet or lozenge/troche (MCG)	0.13
Fentanyl, film or oral spray (MCG)	0.18
Fentanyl, nasal spray (MCG)	0.16
Fentanyl, transdermal patch (MCG/HR)	7.2
Hydrocodone	1
Hydromorphone	4
Levomethadyl acetate	8
Levorphanol tartrate	11
Meperidine	0.1
Methadone	3
Morphine	1
Opium	1
Oxycodone	1.5
Oxymorphone	3
Pentazocine	0.37
Propoxyphene	0.23
Tapentadol	0.4
Tramadol	0.1