

Table 9. Number of ambulatory and inpatient procedures by procedure category and location: United States, 1996[Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All procedures ¹	Ambulatory ²			Hospital inpatient ³
		Total	Hospital	Freestanding centers	
		Number of procedures in thousands			
All procedures	71,904	31,507	26,373	5,134	40,397
Operations on the nervous system 01-05	2,177	1,240	1,044	196	937
Incision and excision of the skull, brain, and cerebral meninges 01.0,01.2-01.6	104	*	*	-	101
Laminectomy 03.0	125	*	*	*	111
Spinal tap 03.31	325	15	*	*	310
Injection into spinal canal 03.91-03.92	615	534	439	95	81
Release of carpal tunnel 04.43	366	358	300	58	8
Other operations on cranial and peripheral nerves 04.01-04.42,04.44-04.99	277	234	200	34	44
Other operations on the nervous system 01.1,02,03.1-03.2,03.32-03.90,03.93-03.99,05.0-05.9	364	82	73	9	283
Operations on the endocrine system 06-07	135	34	34	*	101
Thyroidectomy 06.2-06.6	66	*17	*17	*	49
Other operations on the endocrine system 06.0-06.1,06.7-07.9	69	17	17	*	52
Operations on the eye 08-16	5,494	5,306	3,270	2,035	188
Excision or destruction of lesion or tissue of eyelid 08.2	73	71	55	16	*
Other operations on the eyelids 08.0-08.1,08.3-08.9	256	218	140	78	37
Extraction of lens 13.1-13.6	2,393	2,367	1,366	1,001	26
Insertion of prosthetic lens (pseudophakos) 13.7	1,840	1,816	1,101	716	*
Destruction of lesion of retina and choroid 14.2	76	69	52	17	*
Operations on extraocular muscles 15.0-15.9	84	82	70	11	*
Other operations on eye 09.0-13.0,13.8-14.1,14.3-14.9,16.0-16.9	773	683	487	196	89
Operations on the ear 18-20	899	841	707	133	58
Excision or destruction of lesion of external ear 18.2	54	49	42	7	*
Myringotomy with insertion of tube 20.01	547	524	432	92	23
Other operations on the ear 18.0-18.1,18.3-19.9,20.09-20.99	297	267	233	34	30
Operations on the nose, mouth, and pharynx 21-29	2,415	2,091	1,752	339	323
Incision, excision, and destruction of nose and lesion of nose 21.1,21.3-21.4,21.6	256	238	194	44	18
Submucous resection of nasal septum 21.5	66	59	51	*	*7
Repair and plastic operations on the nose 21.8	298	276	214	61	22
Other operations on the nose 21.0,21.2,21.7,21.9	131	90	74	16	41
Ethmoidectomy 22.63	138	127	109	19	11
Other operations on nasal sinuses 22.00-22.62,22.64-22.9	361	335	281	55	26
Surgical removal of tooth 23.1	49	33	*	*	16
Other operations on teeth, gums, and alveoli 23.0,23.2-24.9	245	216	194	*	29
Tonsillectomy without adenoidectomy 28.2	144	131	112	19	13
Tonsillectomy with adenoidectomy 28.3	274	252	212	40	23
Adenoidectomy without tonsillectomy 28.6	136	132	109	24	*
Other operations on the nose, mouth, and pharynx 25.0-28.1,28.4-28.5,28.7-29.9	318	202	173	29	116
Operations on the respiratory system 30-34	1,468	429	403	26	1,038
Temporary tracheostomy 31.1	64	*	*	*	63
Laryngoscopy and tracheoscopy 31.41-31.42	132	88	77	*	44
Lung lobectomy and pneumonectomy 32.3-32.5	43	*	*	-	43
Bronchoscopy with and without biopsy 33.21-33.24,33.27	497	192	184	*	305
Other diagnostic procedures on the respiratory system 31.43-31.49,33.25-33.26,33.28-33.29,34.2	166	61	58	*3	105
Incision of chest wall and pleura 34.0	183	*	*	*	179
Thoracentesis 34.91	173	*	*	*	158
Other operations on the respiratory system 30.0-31.0,31.2-31.3,31.5-32.2,32.6-33.1,33.3-33.9,34.1,34.3-34.8,34.92-34.99	209	68	64	*4	141
Operations on the cardiovascular system 35-39	6,341	898	880	*	5,444
Open heart surgery 35.10-35.51,35.53-35.95,35.98-35.99,36.2,36.9,37.10-37.11,37.32-37.33,37.4-37.5	130	*	*	-	128
Removal of coronary artery obstruction and insertion of stent(s) 36.0	721	*	*	-	666
Coronary artery bypass graft ⁴ 36.1	598	-	-	-	598
Cardiac catheterization 37.21-37.23	1,633	472	466	*	1,161

* Figure does not meet standard of reliability or precision.

- Quantity zero.

See footnotes at end of table.

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Procedure category and ICD-9-CM code	All procedures ¹	Ambulatory ²			Hospital inpatient ³
		Total	Hospital	Freestanding centers	
Number of procedures in thousands					
Insertion, replacement, removal and repair of pacemaker leads and devices 37.7-37.8	372	31	30	*	341
Ligation and stripping of varicose veins 38.5	53	46	41	*	*
Puncture of vessel 38.9	819	65	64	*	754
Shunt and vascular bypass 39.0-39.2	219	26	26	*	193
Extracorporeal circulation and procedures auxiliary to open heart surgery 39.6	363	*	*	-	362
Hemodialysis 39.95	424	*	*	-	413
Other operations on the cardiovascular system 35.0,35.52, 35.96,36.3,37.0,37.12,37.24-37.31,37.34,37.6, 37.9-38.4,38.6-38.8,39.3-39.5,39.8-39.94,39.96-39.99	1,008	190	185	*5	819
Operations on the hemic and lymphatic system 40-41	508	160	151	9	348
Diagnostic procedures on the hemic and lymphatic system 40.1,41.3	219	67	64	*3	152
Simple excision of lymphatic structure 40.2	126	77	71	6	49
Other operations on the hemic and lymphatic system 40.0,40.3-41.2,41.4-41.9	163	17	17	*	147
Operations on the digestive system 42-54	11,865	6,888	6,193	695	4,976
Esophagoscopy and gastroscopy 42.21-42.24,44.11-44.14	235	128	100	*	106
Dilation of esophagus 42.92	270	241	213	28	29
Local excision or destruction of lesion or tissue of stomach and intestine 43.4,45.30-45.41,45.43-45.49	74	34	30	*	40
Esophagogastroduodenoscopy (EGD) with closed biopsy 45.16	1,265	815	712	103	450
Other endoscopy of small intestine 45.11-45.14	1,139	747	677	70	392
Colonoscopy 45.23	1,395	1,152	1,018	133	243
Closed (endoscopic) biopsy of large intestine 45.25	613	445	381	64	167
Other endoscopy of large intestine 45.21-45.22,45.24	396	317	283	*	80
Endoscopic polypectomy of large intestine 45.42	642	555	492	63	87
Partial excision of large intestine 45.7	227	*	*	-	226
Intestinal anastomosis and repair 45.9,46.4-46.9	180	*10	*9	*	171
Ileostomy, colostomy, and other enterostomy 46.1 46.3	88	*	*	*	87
Appendectomy, excluding incidental 47.0	281	*18	*18	*	263
Proctosigmoidoscopy 48.21-48.24	130	87	84	4	43
Local excision or destruction of lesion or tissue of rectum and anus 48.3,49.3	130	107	102	5	23
Hemorrhoidectomy 49.43-49.46	121	101	94	7	20
Cholecystectomy 51.2	770	322	315	7	448
Repair of inguinal hernia 53.0-53.1	609	531	481	51	77
Other hernia repair 53.2-53.9	379	226	212	14	152
Laparoscopy 54.21	545	422	376	46	124
Incision and excision of abdominal wall and peritoneum 54.0 54.1,54.3-54.4,54.91,54.95	314	65	59	5	249
Lysis of peritoneal adhesions 54.5	474	136	123	12	338
Other diagnostic procedures on the digestive system 42.25-42.29, 44.15-44.19,45.15,45.19,45.26-45.29, 48.25-48.29,49.2,50.1,51.1,52.1,54.22-54.29	428	188	182	6	241
Other operations on the digestive system 42.0-42.1,42.31-42.91, 42.99-43.3,43.5-44.0,44.2-45.0,45.5-45.6,45.8,46.0, 47.1-48.1,48.4-49.1,49.41-49.42,49.47-50.0,50.2-51.0, 51.3-52.0,52.2-52.9,54.6,54.7,54.92-54.94,54.96-54.99	1,159	239	228	10	921
Operations on the urinary system 55-59	2,448	1,432	1,316	115	1,016
Nephrotomy, pyelotomy, and complete nephrectomy 55.0-55.1,55.5	70	*	*	-	66
Cystoscopy 57.31-57.32	814	624	557	67	190
Closed (transurethral) biopsy of bladder 57.33	97	79	73	6	18
Transurethral excision or destruction of bladder tissue 57.4	214	153	145	8	60
Dilation of urethra 58.6	135	107	97	10	29
Retropubic urethral suspension 59.5	42	*	*	*	38
Ureteral catheterization 59.8	218	117	112	5	101
Other diagnostic procedures on the urinary system 55.2,56.3,57.34,57.39,58.2,59.2	126	68	65	2	58
Other operations on the urinary system 55.3-55.4,55.6-56.2, 56.4-57.2,57.5-58.1,58.3-58.5,58.9-59.1,59.3-59.4,59.6-59.7,59.9	731	276	260	17	455

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See footnotes at end of table.

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Procedure category and ICD-9-CM code	All procedures ¹	Ambulatory ²			Hospital inpatient ³
		Total	Hospital	Freestanding centers	
Number of procedures in thousands					
Operations on the male genital organs 60-64	839	537	460	77	302
Closed (percutaneous) (needle) biopsy of prostate 60.11	77	63	49	*	14
Prostatectomy 60.2-60.6	233	30	28	*	203
Orchiectomy and orchiopexy 62.3-62.5	81	66	60	6	15
Vasectomy 63.73	74	73	55	18	*
Other operations on the spermatic cord, epididymis, and vas deferens 63.01-63.72,63.8-63.9	119	112	100	12	7
Circumcision 64.0	142	115	102	12	27
Other operations on the male genital organs 60.0,60.12-60.19,60.7-62.2,62.6-62.9,64.1-64.9	113	78	66	*	35
Operations on the female genital organs 65-71	4,057	1,962	1,735	227	2,096
Local excision or destruction of ovarian lesion or tissue 65.2	90	41	38	*4	48
Oophorectomy and salpingo-oophorectomy 65.3-65.6	511	36	32	*3	475
Other operations on ovaries 65.0-65.1,65.7-65.9	107	57	51	6	50
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	663	320	283	37	342
Other operations on fallopian tubes 66.0-66.1,66.4-66.9	161	78	71	6	83
Cervical biopsy 67.11-67.12	23	19	17	*	*4
Conization of cervix 67.2	50	46	43	*	*
Destruction of lesion of cervix by cauterization 67.32	53	52	40	12	*
Other excision or destruction of lesion or tissue of cervix 67.31,67.33-67.39	59	55	50	*5	*
Hysteroscopy 68.12	237	229	198	31	8
Excision or destruction of lesion or tissue of uterus and supporting structures 68.2,69.1	179	136	121	15	43
Abdominal hysterectomy and hysterectomy not otherwise specified 68.3-68.4,68.6,68.9	417	*	*	*	407
Vaginal hysterectomy 68.5,68.7	196	12	*10	*	184
Diagnostic dilation and curettage of uterus 69.09	475	439	385	54	36
Other dilation and curettage of uterus 69.01-69.02	138	91	84	7	47
Aspiration curettage of uterus for termination of pregnancy 69.51	24	20	*16	*	*5
Other aspiration curettage of uterus 69.52-69.59	108	87	79	8	21
Other operations on uterus, cervix, and supporting structures 67.0,67.19,67.4-68.11,68.13-68.19,68.8,69.2-69.4,69.6-69.9	101	62	55	7	39
Repair of cystocele and rectocele 70.5	162	*11	*	*	151
Diagnostic procedures on vulva, vagina, and cul-de-sac 70.2,71.1	55	46	43	*	8
Incision and excision of vulva and perineum 71.0,71.2-71.6	71	53	47	6	18
Other operations on the female genital organs 70.0-70.1,70.3-70.4,70.6-70.9,71.7-71.9	179	61	52	8	118
Obstetrical procedures 72-75	6,555	*	*	-	6,540
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	1,295	*	*	-	1,294
Artificial rupture of membranes 73.0	729	-	-	-	729
Medical induction of labor 73.4	389	-	-	-	389
Manually assisted delivery 73.5	1,031	-	-	-	1,031
Cesarean section 74.0-74.2,74.4,74.99	835	-	-	-	835
Fetal EKG (scalp) and fetal monitoring, not otherwise specified 75.32,75.34	896	*	*	-	895
Other diagnostic procedures on fetus and amnion 75.1,75.31,75.33,75.35	94	*	*	-	81
Repair of current obstetric laceration 75.5 75.6	1,062	*	*	-	1,061
Other obstetric procedures 72.0,72.29,72.39-72.6,72.79-72.9,73.1-73.3,73.8-73.9,74.3,74.91,75.0,75.2,75.36-75.4,75.7-75.9	224	*	*	-	224
Operations on the musculoskeletal system 76-84	7,361	4,226	3,603	623	3,134
Partial excision of bone 76.2-76.3,77.6-77.8	505	274	228	46	231
Open reduction of fracture with internal fixation 79.3	549	117	108	10	432
Other reduction of fracture 76.7,79.0-79.2	336	119	113	6	217
Injection of therapeutic substance into joint or ligament 76.96,81.92	70	56	49	7	14
Removal of implanted devices from bone 76.97,78.6	234	173	153	19	61
Bunionectomy 77.51-77.54,77.59	171	161	125	36	*9
Other repair of toe deformities 77.56-77.58	133	120	92	28	13
Arthroscopy of knee 80.26	657	629	531	99	28
Other arthroscopy 80.20-80.25,80.27-80.29	165	152	122	30	13

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Procedure category and ICD-9-CM code	All procedures ¹	Ambulatory ²			Hospital inpatient ³	
		Total	Hospital	Freestanding centers		
		Number of procedures in thousands				
Division of joint capsule, ligament, or cartilage	80.4	127	110	89	21	16
Excision or destruction of intervertebral disc	80.5	324	37	36	*	288
Excision of semilunar cartilage of knee	80.6	479	455	397	58	24
Synovectomy	80.7	153	138	119	19	14
Other incision and excision of joint structure	80.0-80.1,80.3,80.8-80.9	454	373	324	49	81
Spinal fusion	81.0	192	*	*	-	187
Total hip replacement	81.51	139	*	*	-	138
Total knee replacement	81.54	247	*	*	-	245
Other repair of knee	81.42-81.47,81.55	346	264	226	38	82
Other repair of joints	81.1-81.2,81.40,81.49, 81.52-81.53,81.56-81.91,81.93-81.97	479	181	154	28	298
Excision of lesion of muscle, tendon, fascia and bursa	82.2,83.3	187	171	147	24	16
Other operations on muscles, tendon, fascia and bursa	82.0-82.1,82.3-83.2,83.4-83.9	729	493	414	79	235
Amputation of lower limb	84.1	159	17	16	*	141
Other operations on the musculoskeletal system	76.0-76.1, 76.4-76.6,76.91-76.95,76.99-77.49,77.9-78.5, 78.7-78.9,79.4-79.9,81.98-81.99,84.0,84.2-84.9	528	177	153	24	351
Operations on the integumentary system	85-86	3,679	2,389	1,972	417	1,290
Closed (percutaneous) (needle) biopsy of breast	85.11	208	200	168	33	*7
Open biopsy of breast	85.12	115	106	94	13	9
Local excision of lesion of breast (lumpectomy)	85.21	366	341	313	28	25
Mastectomy	85.4	113	24	23	*	89
Other operations on the breast	85.0,85.19-85.20,85.22-85.36,85.5-85.9	369	289	209	80	80
Insertion of totally implantable vascular access device (VAD)	86.07	223	101	98	*	122
Other incision of skin and subcutaneous tissue	86.01-86.06,86.09	295	117	105	11	179
Debridement of wound, infection, or burn	86.22,86.28	411	70	64	6	340
Other excision or destruction of lesion or tissue of skin and subcutaneous tissue	86.21,86.23-86.27,86.3-86.4	932	807	668	138	125
Suture of skin and subcutaneous tissue	86.5	199	40	34	5	160
Skin graft	86.6-86.7	191	98	83	15	93
Other operations on skin and subcutaneous tissue	86.1,86.8-86.9	258	195	113	83	62
Miscellaneous diagnostic and therapeutic procedures	87-99	15,663	3,058	2,837	221	12,604
Computerized axial tomography (CAT scan)	87.03,87.41,87.71,88.01,88.38	1,063	68	68	*	995
Contrast myelogram	87.21	120	84	83	*	35
Mammography	87.35-87.37	39	35	34	*	*4
Pyelogram	87.73-87.75	352	198	191	*	154
Cystogram	87.76-87.77	30	17	14	*	13
Arteriography using contrast material	88.4	571	186	186	*	385
Coronary arteriography	88.55-88.57	1,199	323	317	*	875
Other angiocardiology using contrast material	88.50-88.54,88.58	986	282	276	*	704
Diagnostic ultrasound	88.7	1,274	97	84	*	1,177
Cystometrogram	89.22	60	47	36	*	14
Other nonoperative genitourinary system measurements	89.21,89.23-89.29	112	95	73	*	17
Circulatory monitoring	89.6	349	*	*	-	337
Radioisotope scan	92.0-92.1	304	*	*	*	298
Traction and other immobilization, pressure, and attention to wound	93.4-93.5	167	51	47	*4	116
Respiratory therapy	93.9,96.7	1,098	*	*	*	1,085
Nonoperative intubation and irrigation	96.0-96.6	831	116	111	6	714
Replacement and removal of therapeutic appliances	97.0-97.8	214	140	130	9	74
Injection or infusion of cancer chemotherapeutic substance	99.25	335	*	*	*	290
Other injection or infusion of therapeutic or prophylactic substance	99.11-99.24,99.26-99.29	1,460	419	348	71	1,041
Other diagnostic and therapeutic procedures	87.01-87.02, 87.04-87.17,87.22-87.34,87.38-87.39,87.42-87.69,87.72, 87.78-87.99,88.02-88.37,88.39,88.6,88.8-89.1,89.3-89.5, 89.7-91.9,92.2-93.3,93.6-93.8,94.0-95.4,98.0-99.0,99.3-99.9	5,100	826	765	61	4,274

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- Quantity zero.

¹Procedures estimated from the National Survey of Ambulatory Surgery and the National Hospital Discharge Survey. Not all procedures are covered by these surveys. See "Methods" section.²Data from the National Survey of Ambulatory Surgery. Excludes ambulatory surgery patients who became inpatients.³Data from the National Hospital Discharge Survey. Excludes newborn infants.⁴The number of inpatient discharges with a coronary artery bypass graft was 367,000.