

Appendix B
Clinical Classifications for Health Policy Research, Version 2 -- PROCEDURES
(with all coding changes valid from January 1980 through October 1995¹)

Procedure category	ICD-9-CM codes
1 Incision and excision of CNS	0101 0109 0121 0122 0123 0124 0125 0131 0132 0139 0141 0142 0151 0152 0153 0159
2 Insertion, replacement, or removal of extracranial ventricular shunt	0231 0232 0233 0234 0235 0239 0242 0243
3 Laminectomy, excision intervertebral disc	0302 0309 805 8050 8051 8059
4 Diagnostic spinal tap	0331
5 Insertion of catheter or spinal stimulator and injection into spinal canal	0393 0394 038 0390 0391 0392
6 Decompression peripheral nerve	0443 0444 0449
7 Other diagnostic nervous system procedures	0111 0112 0113 0114 0115 0118 0119 0332 0339 0411 0412 0419 0511 0519
8 Other non-O.R. or closed therapeutic nervous system procedures	0102 0241 0295 0321 0395 0396 0480 0481 0489 0531 0532 0539
9 Other O.R. therapeutic nervous system procedures	016 0201 0202 0203 0204 0205 0206 0207 0211 0212 0213 0214 022 0291 0292 0293 0294 0296 0299 0301 031 0329 034 0351 0352 0353 0359 036 0371 0372 0379 0397 0398 0399 0401 0402 0403 0404 0405 0406 0407 042 043 0441 0442 045 046 0471 0472 0473 0474 0475 0476 0479 0491 0492 0493 0499 050 0521 0522 0523 0524 0525 0529 0581 0589 059
10 Thyroidectomy, partial or complete	062 0631 0639 064 0650 0651 0652 066
11 Diagnostic endocrine procedures	0611 0612 0613 0619 0700 0701 0702 0711 0712 0713 0714 0715 0716 0717 0719 0751 0771 0791
12 Other therapeutic endocrine procedures	0601 0602 0609 067 0681 0689 0691 0692 0693 0694 0695 0698 0699 0721 0722 0729 073 0741 0742 0743 0744 0745 0749 0752 0753 0754 0759 0761 0762 0763 0764 0765 0768 0769 0772 0779 0780 0781 0782 0792 0793 0794 0799
13 Corneal transplant	1160 1161 1162 1163 1164 1169
14 Glaucoma procedures	1251 1252 1253 1254 1255 1259 1261 1262 1263 1264 1265 1266 1269 1271 1272 1273 1274 1279

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

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Procedure category	ICD-9-CM codes
15 Lens and cataract procedures	1311 1319 132 133 1341 1342 1343 1351 1359 1361 1362 1363 1364 1365 1366 1369 1370 1371 1372 138 139
16 Repair of retinal tear, detachment	1431 1432 1433 1434 1435 1439 1441 1449 1451 1452 1453 1454 1455 1459
17 Destruction of lesion of retina and choroid	1421 1422 1423 1424 1425 1426 1427 1429
18 Diagnostic procedures on eye	0811 0819 0911 0912 0919 1021 1029 1121 1122 1129 1221 1222 1229 1411 1419 1501 1509 1621 1622 1623 1629
19 Other therapeutic procedures on eyelids, conjunctiva, cornea	0801 0802 0809 0820 0821 0822 0823 0824 0825 0831 0832 0833 0834 0835 0836 0837 0838 0841 0842 0843 0844 0849 0851 0852 0859 0861 0862 0863 0864 0869 0870 0871 0872 0873 0874 0881 0882 0883 0884 0885 0886 0887 0889 0891 0892 0893 0899 090 0920 0921 0922 0923 093 0941 0942 0943 0944 0949 0951 0952 0953 0959 096 0971 0972 0973 0981 0982 0983 0991 0999 100 101 1031 1032 1033 1041 1042 1043 1044 1049 105 106 1091 1099 110 111 1131 1132 1139 1141 1142 1143 1149 1151 1152 1153 1159 1171 1172 1173 1174 1175 1176 1179 1191 1192 1199 9651 9731
20 Other intraocular therapeutic procedures	1200 1201 1202 1211 1212 1213 1214 1231 1232 1233 1234 1235 1239 1240 1241 1242 1243 1244 1281 1282 1283 1284 1285 1286 1287 1288 1289 1291 1292 1293 1297 1298 1299 1300 1301 1302 1400 1401 1402 146 1471 1472 1473 1474 1475 1479 149
21 Other extraocular muscle and orbit therapeutic procedures	1511 1512 1513 1519 1521 1522 1529 153 154 155 156 157 159 1601 1602 1609 161 1631 1639 1641 1642 1649 1651 1652 1659 1661 1662 1663 1664 1665 1666 1669 1671 1672 1681 1682 1689 1691 1692 1693 1698 1699
22 Tympanoplasty	194 1952 1953 1954 1955 196
23 Myringotomy	2001 2009
24 Mastoidectomy	2041 2042 2049
25 Diagnostic procedures on ear	1811 1812 1819 2031 2032 2039
26 Other therapeutic ear procedures	1801 1802 1809 1821 1829 1831 1839 184 185 186 1871 1872 1879 189 190 1911 1919 1921 1929 193 199 201 2021 2022 2023 2051 2059 2061 2062 2071 2072 2079 208 2091 2092 2093 2094 2095 2096 2097 2098 2099 9611 9652

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	Procedure category	ICD-9-CM codes
27	Control of epistaxis	2100 2101 2102 2103 2104 2105 2106 2107 2109
28	Plastic procedures on nose	215 2181 2182 2183 2184 2185 2186 2187 2188 2189
29	Dental procedures	2301 2309 2311 2319 232 233 2341 2342 2343 2349 235 236 2370 2371 2372 2373 244 245 246 247 248 2491 2499 9654 9722 9733 9734 9735 9997
30	Tonsillectomy and/or adenoidectomy	282 283 286 287
31	Diagnostic procedures on nose, mouth and pharynx	2121 2122 2129 2211 2212 2219 2411 2412 2419 2501 2502 2509 2611 2612 2619 2721 2722 2723 2724 2729 2811 2819 2911 2912 2919
32	Other non-O.R. therapeutic procedures on nose, mouth and pharynx	211 2130 2131 2132 2171 2191 2200 2201 2202 222 2264 240 2431 2432 2439 2551 2591 2592 2593 260 2691 2741 2751 2752 2791 2991 9621 9653 9721 9732
33	Other O.R. therapeutic procedures on nose, mouth and pharynx	214 2161 2162 2169 2172 2199 2231 2239 2241 2242 2250 2251 2252 2253 2260 2261 2262 2263 2271 2279 229 242 251 252 253 254 2559 2594 2599 2621 2629 2630 2631 2632 2641 2642 2649 2699 270 271 2731 2732 2742 2743 2749 2753 2754 2755 2756 2757 2759 2761 2762 2763 2769 2771 2772 2773 2779 2792 2799 280 284 285 2891 2892 2899 290 292 293 2931 2932 2933 2939 294 2951 2952 2953 2954 2959 2992 2999
34	Tracheostomy, temporary and permanent	311 3121 3129
35	Tracheoscopy and laryngoscopy with biopsy	3142 3143 3144
36	Lobectomy or pneumonectomy	3221 3222 3229 323 324 325
37	Diagnostic bronchoscopy and biopsy of bronchus	3322 3323 3324 3326 3327
38	Other diagnostic procedures on lung and bronchus	3325 3328 3329 3402
39	Incision of pleura, thoracentesis, chest drainage	3404 3409 3491
40	Other diagnostic procedures of respiratory tract and mediastinum	3141 3145 3148 3149 3321 3421 3422 3423 3424 3425 3426 3427 3428 3429
41	Other non-O.R. therapeutic procedures on respiratory	310 3193 3194 3195 3201 3228 3331 3332 3333 3391 3471 3472 3492 9655 9656 9723 9737 9741 9742 9743

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

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Procedure category	ICD-9-CM codes
system	9749
42 Other O.R. therapeutic procedures on respiratory system	3001 3009 301 3021 3022 3029 303 304 313 315 3161 3162 3163 3164 3169 3171 3172 3173 3174 3175 3179 3191 3192 3198 3199 320 3209 321 326 329 330 331 3334 3339 3341 3342 3343 3348 3349 3392 3393 3398 3399 3401 3403 3405 341 343 344 3451 3459 346 3473 3474 3479 3481 3482 3483 3484 3485 3489 3493 3499
43 Heart valve procedures	3500 3501 3502 3503 3504 3510 3511 3512 3513 3514 3520 3521 3522 3523 3524 3525 3526 3527 3528 3596 3599
44 Coronary artery bypass graft (CABG)	3610 3611 3612 3613 3614 3615 3616 3619 362 363
45 Percutaneous transluminal coronary angioplasty (PTCA)	3601 3602 3605
46 Coronary thrombolysis	3604
47 Diagnostic cardiac catheterization, coronary arteriography	3721 3722 3723 8852 8853 8854 8855 8856 8857
48 Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator	3770 3771 3772 3773 3774 3775 3776 3777 3778 3779 3780 3781 3782 3783 3785 3786 3787 3789 3794 3795 3796 3797 3798
49 Other O.R. heart procedures	3531 3532 3533 3534 3535 3539 3541 3542 3550 3551 3552 3553 3554 3560 3561 3562 3563 3570 3571 3572 3573 3581 3582 3583 3584 3591 3592 3593 3594 3595 3598 3600 3603 3609 3691 3699 3710 3711 3712 3731 3732 3733 3734 374 3761 3762 3763 3764 3765 3766 3791 3799
50 Extracorporeal circulation auxiliary to open heart procedures	3961 3962 3963 3964 3965 3966
51 Endarterectomy, vessel of head and neck	3812
52 Aortic resection, replacement or anastomosis	3834 3844 3864
53 Varicose vein stripping, lower limb	3859
54 Other vascular catheterization,	3891 3892 3893

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

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Procedure category	ICD-9-CM codes
not heart	
55 Peripheral vascular bypass	3925 3929
56 Other vascular bypass and shunt, not heart	390 391 3921 3922 3923 3924 3926 3928
57 Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis	3927 3942 3943 3993
58 Hemodialysis	3995
59 Other O.R. procedures on vessels of head and neck	3801 3802 3811 3831 3832 3841 3842 3851 3852 3861 3862 3881 3882
60 Embolectomy and endarterectomy of lower limbs	3808 3818
61 Other O.R. procedures on vessels other than head and neck	3800 3803 3804 3805 3806 3807 3809 3810 3813 3814 3815 3816 3830 3833 3835 3836 3837 3838 3839 3840 3843 3845 3846 3847 3848 3849 3850 3853 3855 3857 3860 3863 3865 3866 3867 3868 3869 387 3880 3883 3884 3885 3886 3887 3888 3889 3930 3931 3932 3941 3949 3950 3951 3952 3953 3954 3955 3956 3957 3958 3959 397 398 3991 3992 3994 3998 3999
62 Other diagnostic cardiovascular procedures	3724 3725 3726 3727 3729 3821 3822 3829
63 Other non-O.R. therapeutic cardiovascular procedures	3606 370 3792 3793 3894 3895 3996 3997
64 Bone marrow transplant	410 4100 4101 4102 4103 4104
65 Bone marrow biopsy	4131
66 Procedures on spleen	411 412 4141 4142 4143 415 4193 4195 4199
67 Other therapeutic procedures, hemic and lymphatic system	400 4011 4019 4021 4022 4023 4024 4029 403 4040 4041 4042 4050 4051 4052 4053 4054 4059 4061 4062 4063 4064 4069 409 4132 4133 4138 4139 4191 4192 4198
68 Injection or ligation of esophageal varices	4291
69 Esophageal dilatation	4292
70 Upper gastrointestinal	4223 4224 4413 4414 4513 4514 4516

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Procedure category	ICD-9-CM codes
endoscopy, biopsy	
71 Gastrostomy, temporary and permanent	431 4311 4319 432
72 Colostomy, temporary and permanent	4610 4611 4612 4613 4614
73 Ileostomy and other enterostomy	4620 4621 4622 4623 4624 4631 4632 4639
74 Gastrectomy, partial and total	435 436 437 4381 4389 4391 4399
75 Small bowel resection	4561 4562 4563
76 Colonoscopy and biopsy	4523 4524 4525
77 Proctoscopy and anorectal biopsy	4823 4824 4826 4921 4922 4923
78 Colorectal resection	4571 4572 4573 4574 4575 4576 4579 458 4841 4849 485 4861 4862 4863 4864 4865 4866 4869
79 Local excision of large intestine lesion (not endoscopic)	4541
80 Appendectomy	470 471
81 Hemorrhoid procedures	4941 4942 4943 4944 4945 4946 4947 4949
82 Endoscopic retrograde cannulation of pancreas (ERCP)	5110 5111 5197 5213 5291
83 Biopsy of liver	5011 5012
84 Cholecystectomy and common duct exploration	5121 5122 5123 5141 5142 5143 5149 5151 5159
85 Inguinal and femoral hernia repair	5300 5301 5302 5303 5304 5305 5310 5311 5312 5313 5314 5315 5316 5317 5321 5329 5331 5339
86 Other hernia repair	5341 5349 5351 5359 5361 5369 537 5380 5381 5382 539
87 Laparoscopy	5421
88 Abdominal paracentesis	5491
89 Exploratory laparotomy	5411

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	Procedure category	ICD-9-CM codes
90	Excision, lysis peritoneal adhesions	545
91	Peritoneal dialysis	5498
92	Other bowel diagnostic procedures	4221 4222 4225 4229 4411 4412 4415 4419 4511 4512 4515 4519 4521 4522 4526 4527 4528 4529 4821 4822 4825 4829 4929 5425
93	Other non-O.R. upper GI therapeutic procedures	4233 4281 4341 4422 4443 4444 4449 4462 4493 4494 9606 9631 9632 9633 9634 9635 9701 9702 9751
94	Other O.R. upper GI therapeutic procedures	4201 4209 4210 4211 4212 4219 4231 4232 4239 4240 4241 4242 4251 4252 4253 4254 4255 4256 4258 4259 4261 4262 4263 4264 4265 4266 4268 4269 427 4282 4283 4284 4285 4286 4287 4289 4299 430 433 4342 4349 4400 4401 4402 4403 442 4421 4429 4431 4439 4440 4441 4442 445 4461 4463 4464 4465 4466 4469 4491 4492 4499
95	Other non-O.R. lower GI therapeutic procedures	4530 4542 4543 4685 4695 4696 4831 4832 4833 4834 4836 4903 4931 9609 9619 9622 9623 9626 9637 9638 9639 9703 9704 9752 9753 9993
96	Other O.R. lower GI therapeutic procedures	4500 4501 4502 4503 4531 4532 4533 4534 4549 4550 4551 4552 4590 4591 4592 4593 4594 4595 4601 4602 4603 4604 4640 4641 4642 4643 4650 4651 4652 4660 4661 4662 4663 4664 4671 4672 4673 4674 4675 4676 4679 4680 4681 4682 4691 4692 4693 4694 4699 472 4791 4792 4799 480 481 4835 4871 4872 4873 4874 4875 4876 4879 4881 4882 4891 4892 4893 4899 4901 4902 4904 4911 4912 493 4939 4951 4952 4959 496 4971 4972 4973 4974 4979 4991 4992 4993 4994 4995 4999
97	Other gastrointestinal diagnostic procedures	5019 5112 5113 5114 5115 5119 5211 5212 5214 5219 5422 5423 5424 5429
98	Other non-O.R. gastrointestinal therapeutic procedures	5091 5092 5093 5094 5099 5101 5164 5184 5185 5186 5187 5188 5196 5198 5221 5293 5294 5297 5298 5496 5497 5499 9608 9624 9627 9628 9636 9641 9642 9643 9705 9754 9755 9756 9759 9782 9786
99	Other O.R. gastrointestinal therapeutic procedures	500 5021 5022 5029 503 504 5061 5069 5102 5103 5104 5131 5132 5133 5134 5135 5136 5137 5139 5161 5162 5163 5169 5171 5172 5179 5181 5182 5183 5189 5191 5192 5193 5194 5195 5199 5201 5209 522 5222 523 524 5251 5252 5253 5259 526 527 5292 5295 5296 5299 540 5412 5419 543 544 5461 5462 5463 5464 5471 5472 5473 5474 5475 5492 5493 5494 5495
100	Endoscopy and endoscopic	5521 5522 5631 5633 5732 5733 5822 5823

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Procedure category	ICD-9-CM codes
biopsy of the urinary tract	
101 Transurethral excision, drainage, or removal urinary obstruction	560 570 5741 5749
102 Ureteral catheterization	598
103 Nephrotomy and nephrostomy	5501 5502 5503 5504 5511 5512
104 Nephrectomy, partial or complete	554 5551 5552 5553 5554
105 Kidney transplant	5561 5569
106 Genitourinary incontinence procedures	593 594 595 596 5971 5972 5979
107 Extracorporeal lithotripsy, urinary	5995 5996 9851
108 Indwelling catheter	5794
109 Procedures on the urethra	580 581 583 5831 5839 5841 5842 5843 5844 5845 5846 5847 5849 585 586 5891 5892 5893 5899
110 Other diagnostic procedures of urinary tract	5523 5524 5529 5632 5634 5635 5639 5731 5734 5739 5821 5824 5829 5921 5929
111 Other non-O.R. therapeutic procedures of urinary tract	5592 5593 5594 5595 5596 5691 5711 5717 5792 5795 5993 5994 5999 9625 9645 9646 9647 9648 9649 9761 9762 9763 9764 9765 9769
112 Other O.R. therapeutic procedures of urinary tract	5531 5539 557 5581 5582 5583 5584 5585 5586 5587 5589 5591 5597 5598 5599 561 562 5640 5641 5642 5651 5652 5661 5662 5671 5672 5673 5674 5675 5679 5681 5682 5683 5684 5685 5686 5689 5692 5693 5694 5695 5699 5712 5718 5719 5721 5722 5751 5759 576 5771 5779 5781 5782 5783 5784 5785 5786 5787 5788 5789 5791 5793 5796 5797 5798 5799 5900 5901 5902 5909 5911 5919 5991 5992
113 Transurethral resection of prostate (TURP)	602 6021 6029
114 Open prostatectomy	603 604 605 6061 6062 6069
115 Circumcision	640
116 Diagnostic procedures, male genital	6011 6012 6013 6014 6015 6018 6019 6111 6119 6211 6212 6219 6301 6309 6411 6419

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

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Procedure category	ICD-9-CM codes
117 Other non-O.R. therapeutic procedures, male genital	6071 6091 6092 6095 610 613 6141 6191 6291 6292 6352 636 6370 6371 6372 6373 6384 6391 6491 6494 9994 9995 9996
118 Other O.R. therapeutic procedures, male genital	600 6072 6073 6079 6081 6082 6093 6094 6099 612 6142 6149 6192 6199 620 622 623 6241 6242 625 6261 6269 627 6299 631 632 633 634 6351 6353 6359 6381 6382 6383 6385 6389 6392 6393 6394 6395 6399 642 643 6441 6442 6443 6444 6445 6449 645 6492 6493 6495 6496 6497 6498 6499
119 Oophorectomy, unilateral and bilateral	653 654 6551 6552 6561 6562
120 Other operations on ovary	650 6521 6522 6529 6571 6572 6573 6579 658 6591 6592 6593 6594 6595 6599
121 Ligation of fallopian tubes	6621 6622 6629 6631 6632 6639
122 Removal ectopic pregnancy	6662 6911 743
123 Other operations on fallopian tubes	664 6651 6652 6661 6663 6669 6671 6672 6673 6674 6679 668 6691 6692 6693 6694 6695 6696 6697 6699
124 Hysterectomy, abdominal and vaginal	683 684 685 686 687 689
125 Other excision of cervix and uterus	672 6731 6732 6733 6739 674 6821 6822 6829 6919
126 Abortion (termination of pregnancy)	6901 6951 7491 750
127 Dilatation and curettage (D&C), aspiration after delivery or abortion	6902 6952
128 Diagnostic dilatation and curettage (D&C)	6909
129 Repair of cystocele and rectocele, obliteration of vaginal vault	7050 7051 7052 708
130 Other diagnostic procedures female organs	6511 6512 6519 6611 6619 6711 6712 6719 6811 6812 6813 6814 6815 6816 6819 7021 7022 7023 7024 7029 7111 7119
131 Other non-O.R. therapeutic procedures, female organs	670 6959 696 697 6991 6992 6993 6994 6996 700 7011 7121 9614 9615 9616 9617 9618 9644 9724 9725 9726 9771 9772 9773 9774 9775

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Procedure category	ICD-9-CM codes
132 Other O.R. therapeutic procedures, female organs	660 6601 6602 675 6761 6762 6769 680 688 6921 6922 6923 6929 693 6941 6942 6949 6995 6997 6998 6999 7012 7013 7014 7031 7032 7033 704 7061 7062 7071 7072 7073 7074 7075 7076 7077 7079 7091 7092 7101 7109 7122 7123 7124 7129 713 714 715 7161 7162 7171 7172 7179 718 719
133 Episiotomy	736
134 Cesarean section	740 741 742 744 7499
135 Forceps, vacuum, and breech delivery	720 721 7221 7229 7231 7239 724 7251 7252 7253 7254 726 7271 7279 728 729 733
136 Artificial rupture of membranes to assist delivery	7309
137 Other procedures to assist delivery	7301 731 7321 7322 734 7351 7359 738 7391 7392 7393 7394 7399
138 Diagnostic amniocentesis	751
139 Fetal monitoring	7531 7532 7533 7534 7535
140 Repair of current obstetric laceration	7550 7551 7552 7561 7562 7569
141 Other therapeutic obstetrical procedures	752 7536 754 757 758 7591 7592 7593 7594 7599
142 Partial excision bone	7601 762 7631 7639 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769 7770 7771 7772 7773 7774 7775 7776 7777 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787 7788 7789
143 Bunionectomy or repair of toe deformities	7751 7752 7753 7754 7756 7757 7758 7759
144 Treatment, facial fracture or dislocation	7670 7671 7672 7673 7674 7675 7676 7677 7678 7679 7693 7694 7697 7699
145 Treatment, fracture or dislocation of radius and ulna	7853 7863 7902 7912 7922 7932 7942 7952 7962 7972 7973 7982 7983 7992
146 Treatment, fracture or dislocation of hip and femur	7855 7865 7905 7915 7925 7935 7945 7955 7965 7975 7985 7995
147 Treatment, fracture or dislocation of lower extremity (other than hip or femur)	7856 7857 7858 7866 7867 7868 7906 7907 7908 7916 7917 7918 7926 7927 7928 7936 7937 7938 7946 7956 7966 7967 7968 7976 7977 7978 7986 7987 7988 7996 7997 7998

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Procedure category	ICD-9-CM codes
148 Other fracture and dislocation procedure	7850 7851 7852 7854 7859 7860 7861 7862 7864 7869 7900 7901 7903 7904 7909 7910 7911 7913 7914 7919 7920 7921 7923 7924 7929 7930 7931 7933 7934 7939 7940 7941 7949 7950 7951 7959 7960 7961 7963 7964 7969 7970 7971 7974 7979 7980 7981 7984 7989 7990 7991 7993 7994 7999
149 Arthroscopy	8020 8021 8022 8023 8024 8025 8026 8027 8028 8029
150 Division of joint capsule, ligament or cartilage	8040 8041 8042 8043 8044 8045 8046 8047 8048 8049
151 Excision of semilunar cartilage of knee	806
152 Arthroplasty knee	8141 8142 8143 8144 8145 8146 8147 8154 8155
153 Hip replacement, total and partial	8151 8152 8153 8161 8162 8163 8164 8169
154 Arthroplasty other than hip or knee	8131 8139 8148 8149 8156 8157 8171 8172 8173 8174 8175 8179 8180 8181 8182 8183 8184 8185 8186 8187 8197
155 Arthrocentesis	8191
156 Injections and aspirations of muscles, tendons, bursa, joints and soft tissue	8292 8293 8294 8295 8296 8394 8395 8396 8397 8398
157 Amputation of lower extremity	8410 8411 8412 8413 8414 8415 8416 8417 8418 8419
158 Spinal fusion	8100 8101 8102 8103 8104 8105 8106 8107 8108 8109
159 Other diagnostic procedures on musculoskeletal system	7611 7619 7740 7741 7742 7743 7744 7745 7746 7747 7748 7749 7880 7881 7882 7883 7884 7885 7886 7887 7888 7889 8030 8031 8032 8033 8034 8035 8036 8037 8038 8039 8321 8329
160 Other therapeutic procedures on muscles and tendons	8201 8202 8203 8204 8209 8211 8212 8219 8221 8222 8229 8231 8232 8233 8234 8235 8236 8239 8241 8242 8243 8244 8245 8246 8251 8252 8253 8254 8255 8256 8257 8258 8259 8261 8269 8271 8272 8279 8281 8282 8283 8284 8285 8286 8289 8291 8299 8301 8302 8303 8309 8311 8312 8313 8314 8319 8331 8332 8339 8341 8342 8343 8344 8345 8349 835 8361 8362 8363 8364 8365 8371 8372 8373 8374 8375 8376 8377 8379 8381 8382 8383 8384 8385 8386 8387 8388 8389 8391 8392 8393 8399
161 Other O.R. therapeutic	7700 7701 7702 7703 7704 7705 7706 7707 7708 7709

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procedures on bone	7710 7711 7712 7713 7714 7715 7716 7717 7718 7719 7720 7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7737 7738 7739 7790 7791 7792 7793 7794 7795 7796 7797 7798 7799 7800 7801 7802 7803 7804 7805 7806 7807 7808 7809 7810 7811 7812 7813 7814 7815 7816 7817 7818 7819 7820 7822 7823 7824 7825 7827 7828 7829 7830 7831 7832 7833 7834 7835 7837 7838 7839 7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7870 7871 7872 7873 7874 7875 7876 7877 7878 7879 7890 7891 7892 7893 7894 7895 7896 7897 7898 7899
162 Other O.R. therapeutic procedures on joints	8000 8001 8002 8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8052 8070 8071 8072 8073 8074 8075 8076 8077 8078 8079 8080 8081 8082 8083 8084 8085 8086 8087 8088 8089 8090 8091 8092 8093 8094 8095 8096 8097 8098 8099 8111 8112 8113 8114 8115 8116 8117 8118 8120 8121 8122 8123 8124 8125 8126 8127 8128 8129 8140 8193 8194 8195 8196 8198 8199
163 Other non-O.R. therapeutic procedures on musculoskeletal system	7695 7696 8192 8441 8442 8443 8445 8446 8447 9711 9712 9713 9714 9736 9788
164 Other O.R. therapeutic procedures on musculoskeletal system	7609 7641 7642 7643 7644 7645 7646 765 7661 7662 7663 7664 7665 7666 7667 7668 7669 7691 7692 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8421 8422 8423 8424 8425 8426 8427 8428 8429 843 8440 8444 8448 8491 8492 8493 8499
165 Breast biopsy and other diagnostic procedures on breast	8511 8512 8519
166 Lumpectomy, quadrantectomy of breast	8520 8521 8522 8523
167 Mastectomy	8541 8542 8543 8544 8545 8546 8547 8548
168 Incision and drainage, skin and subcutaneous tissue	8604
169 Debridement of wound, infection or burn	8622 8628
170 Excision of skin lesion	863 864
171 Suture of skin and subcutaneous tissue	8651 8659
172 Skin graft	8660 8661 8662 8663 8664 8665 8666 8669 8670 8671 8672 8673 8674 8675

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

Appendix B
Clinical Classifications for Health Policy Research, Version 2 -- PROCEDURES
(with all coding changes valid from January 1980 through October 1995¹)

	Procedure category	ICD-9-CM codes
173	Other diagnostic procedures on skin and subcutaneous tissue	8611 8619
174	Other non-O.R. therapeutic procedures on skin and breast	850 8551 8552 8581 8591 8592 8601 8602 8603 8605 8607 8609 8623 8624 8626 8627 8692 8699
175	Other O.R. therapeutic procedures on skin and breast	8524 8525 8531 8532 8533 8534 8535 8536 8550 8553 8554 856 857 8582 8583 8584 8585 8586 8587 8589 8593 8594 8595 8596 8599 8606 8621 8625 8681 8682 8683 8684 8685 8686 8689 8691 8693
176	Other organ transplantation	335 3350 3351 3352 336 375 4194 5051 5059 5280 5281 5282 5283
177	Computerized axial tomography (CT) scan head	8703
178	CT scan chest	8741
179	CT scan abdomen	8801
180	Other CT scan	8771 8838
181	Myelogram	8721
182	Mammography	8736 8737
183	Routine chest x-ray	8744
184	Intraoperative cholangiogram	8753
185	Upper gastrointestinal x-ray	8761 8762
186	Lower gastrointestinal x-ray	8764
187	Intravenous pyelogram	8773
188	Cerebral arteriogram	8841
189	Contrast aortogram	8842
190	Contrast arteriogram of femoral and lower extremity arteries	8848
191	Arterio- or venogram (not heart and head)	8840 8843 8844 8845 8846 8847 8849 8850 8851 8858 8860 8861 8862 8863 8864 8865 8866 8867 8868
192	Diagnostic ultrasound of head and neck	8871
193	Diagnostic ultrasound of heart (echocardiogram)	8872

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

Appendix B
Clinical Classifications for Health Policy Research, Version 2 -- PROCEDURES
(with all coding changes valid from January 1980 through October 1995¹)

	Procedure category	ICD-9-CM codes
194	Diagnostic ultrasound of gastrointestinal tract	8874
195	Diagnostic ultrasound of urinary tract	8875
196	Diagnostic ultrasound of abdomen or retroperitoneum	8876
197	Other diagnostic ultrasound	8873 8877 8878 8879
198	Magnetic resonance imaging	8891 8892 8893 8894 8895 8897 8899
199	Electroencephalogram (EEG)	8914
200	Nonoperative urinary system measurements	8929
201	Cardiac stress tests	8941 8942 8943 8944
202	Electrocardiogram	8951 8952
203	Electrographic cardiac monitoring	8954
204	Swan-Ganz catheterization for monitoring	8964
205	Arterial blood gases	8965
206	Microscopic examination (bacterial smear, culture, toxicology)	9001 9002 9003 9004 9005 9006 9009 9011 9012 9013 9014 9015 9016 9019 9021 9022 9023 9024 9025 9026 9029 9031 9032 9033 9034 9035 9036 9039 9041 9042 9043 9044 9045 9046 9049 9051 9052 9053 9054 9055 9056 9059 9061 9062 9063 9064 9065 9066 9069 9071 9072 9073 9074 9075 9076 9079 9081 9082 9083 9084 9085 9086 9089 9091 9092 9093 9094 9095 9096 9099 9101 9102 9103 9104 9105 9106 9109 9111 9112 9113 9114 9115 9116 9119 9121 9122 9123 9124 9125 9126 9129 9131 9132 9133 9134 9135 9136 9139 9141 9142 9143 9144 9145 9146 9149 9151 9152 9153 9154 9155 9156 9159 9161 9162 9163 9164 9165 9166 9169 9171 9172 9173 9174 9175 9176 9179 9181 9182 9183 9184 9185 9186 9189 9191 9192 9193 9194 9195 9196 9199
207	Radioisotope bone scan	9214
208	Radioisotope pulmonary scan	9215
209	Radioisotope scan and function studies	9201 9202 9203 9204 9205 9209

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

Appendix B
Clinical Classifications for Health Policy Research, Version 2 -- PROCEDURES
(with all coding changes valid from January 1980 through October 1995¹)

Procedure category	ICD-9-CM codes
210 Other radioisotope scan	9211 9212 9213 9216 9217 9218 9219
211 Therapeutic radiology	9221 9222 9223 9224 9225 9226 9227 9228 9229
212 Diagnostic physical therapy	9301 9302 9303 9304 9305 9306 9307 9308 9309
213 Physical therapy exercises, manipulation, and other procedures	9311 9312 9313 9314 9315 9316 9317 9318 9319 9321 9322 9323 9324 9325 9326 9327 9328 9329 9331 9332 9333 9334 9335 9336 9337 9338 9339
214 Traction, splints, and other wound care	9341 9342 9343 9344 9345 9346 9351 9352 9353 9354 9355 9356 9357 9358 9359
215 Other physical therapy and rehabilitation	9361 9362 9363 9364 9365 9366 9367 9371 9372 9373 9374 9375 9376 9377 9378 9381 9382 9383 9384 9385 9389
216 Respiratory intubation and mechanical ventilation	9390 9392 9601 9602 9603 9604 9605 9670 9671 9672
217 Other respiratory therapy	9391 9394 9396 9399
218 Psychological and psychiatric evaluation and therapy	9401 9402 9403 9408 9409 9411 9412 9413 9419 9421 9422 9423 9424 9425 9426 9427 9429 9431 9432 9433 9434 9435 9436 9437 9438 9439 9441 9442 9443 9444 9445 9446 9449 9451 9452 9453 9454 9455 9459
219 Alcohol and drug rehabilitation/detoxification	9461 9462 9463 9464 9465 9466 9467 9468 9469
220 Ophthalmologic and otologic diagnosis and treatment	9501 9502 9503 9504 9505 9506 9507 9509 9511 9512 9513 9514 9515 9516 9521 9522 9523 9524 9525 9526 9531 9532 9533 9534 9535 9536 9541 9542 9543 9544 9545 9546 9547 9548 9549
221 Naso-gastric tube	9607
222 Blood transfusion	9900 9901 9902 9903 9904 9905 9906 9907 9908 9909
223 Enteral and parenteral nutrition	966 9915
224 Cancer chemotherapy	9925 9928
225 Conversion of cardiac rhythm	9960 9961 9962 9963 9964 9969
226 Other diagnostic radiology and related techniques	8701 8702 8704 8705 8706 8707 8708 8709 8711 8712 8713 8714 8715 8716 8717 8722 8723 8724 8729 8731 8732 8733 8734 8735 8738 8739 8742 8743 8749 8751 8752 8754 8759 8763 8765 8766 8769 8772 8774 8775 8776 8777 8778 8779 8781 8782 8783 8784 8785 8789

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).

Appendix B
Clinical Classifications for Health Policy Research, Version 2 -- PROCEDURES
(with all coding changes valid from January 1980 through October 1995¹)

Procedure category	ICD-9-CM codes
	8791 8792 8793 8794 8795 8799 8802 8803 8804 8809 8811 8812 8813 8814 8815 8816 8819 8821 8822 8823 8824 8825 8826 8827 8828 8829 8831 8832 8833 8834 8835 8836 8837 8839 8881 8882 8883 8884 8885 8886 8889 8890 8898
227 Other diagnostic procedures (interview, evaluation, consultation)	8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8915 8916 8917 8918 8919 8921 8922 8923 8924 8925 8926 8931 8932 8933 8934 8935 8936 8937 8938 8939 8945 8946 8947 8948 8949 8950 8953 8955 8956 8957 8958 8959 8961 8962 8963 8966 8967 8968 8969 897 898
228 Prophylactic vaccinations and inoculations	9931 9932 9933 9934 9935 9936 9937 9938 9939 9941 9942 9943 9944 9945 9946 9947 9948 9951 9952 9953 9954 9955 9956 9957 9958 9959
229 Nonoperative removal of foreign body	9801 9802 9803 9804 9805 9811 9812 9813 9814 9815 9816 9817 9818 9819 9820 9821 9822 9823 9824 9825 9826 9827 9828 9829
230 Extracorporeal shock wave lithotripsy, other than urinary	9852 9859
231 Other therapeutic procedures	3898 3899 923 9393 9395 9397 9398 9657 9658 9659 9715 9716 9729 9738 9739 9779 9781 9783 9784 9785 9787 9789 9911 9912 9913 9914 9916 9917 9918 9919 9921 9922 9923 9924 9926 9927 9929 9971 9972 9973 9974 9979 9981 9982 9983 9984 9985 9986 9988 9991 9992 9998 9999

¹ All ICD-9-CM coding changes from 1980 through 1995 are included here with one exception. Special treatment is required for the following code: 8159. From January 1980 to September 1989, 8159 (Other total hip replacement) should appear in procedure category 153. Hip replacement. After October 1989, 8159 (Revision of joint replacement of lower extremity, not elsewhere classified) should appear in procedure category 154. Other arthroplasty.

Source: AHCPH, Center for Delivery Systems Research, Healthcare Cost and Utilization Project (HCUP-3).