

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
1 Infectious and parasitic diseases	1 2 3 4 5 6 7 8 9 10	-
1.1 Bacterial infection	1 2 3 9	-
1.1.1 Tuberculosis	1	-
1.1.2 Septicemia (except in labor)	2	-
1.1.2.1 Streptococcal septicemia	-	0380
1.1.2.2 Staphylococcal septicemia	-	0381
1.1.2.3 E. Coli septicemia	-	03842
1.1.2.4 Other gram negative septicemia	-	03840 03841 03843 03844 03849
1.1.2.5 Other specified septicemia	-	0031 0202 0223 0362 0382 0383 0545
1.1.2.6 Unspecified septicemia	-	0388 0389 7907
1.1.3 Sexually transmitted infections (not HIV or hepatitis)	9	-
1.1.4 Other bacterial infections	3	-
1.2 Mycoses	4	-
1.2.1 Candidiasis of the mouth (thrush)	-	1120
1.2.2 Other mycoses	-	1100 1102 1103 1104 1105 1106 1108 1109 1110 1111 1112 1113 1118 1119 1121 1122 1123 1125 11282 11284 11285 11289 1129 1141 1143 1149 11500 11509 11510 11519 11590 11599 1160 1161 1162 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 118
1.3 Viral infections	5 6 7	-
1.3.1 HIV infection	5	-
1.3.2 Hepatitis	6	-
1.3.3 Other viral infections	7	-
1.3.3.1 Herpes zoster infection	-	05310 05311 05312 05313 05319 05371 05379 0538 0539
1.3.3.2 Herpes simplex infection	-	0540 05410 05411 05412 05413

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		05419 0542 0546 05471 05473 05479 0548 0549
1.3.3.3	Other and unspecified viral infection	-
		0500 0501 0502 0509 0510 0511 0512 0519 0527 0528 0529 05579 0558 0559 05600 05609 05679 0568 0569 0570 0578 0579 0600 0601 0609 061 0650 0651 0652 0653 0654 0658 0659 0660 0661 0663 0668 0669 071 0720 0723 07271 07272 07279 0728 0729 0737 0738 0739 0740 0741 0743 0748 075 0780 0781 07810 07811 07819 0782 0783 0784 0785 0786 0787 07881 07882 07888 07889 0790 0791 0792 0793 0794 07950 07951 07952 07954 0798 07988 07989 0799 07998 07999 7908
1.4	Other infections, including parasitic	8
1.5	Immunizations and screening for infectious diseases	10
2	Neoplasms	-
		11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
2.1	Colorectal cancer	14 15
2.1.1	Cancer of colon	14
2.1.2	Cancer of rectum and anus	15
2.2	Other gastrointestinal cancer	12 13 16 17 18
2.2.1	Cancer of esophagus	12
2.2.2	Cancer of stomach	13
2.2.3	Cancer of liver and intrahepatic bile duct	16
2.2.4	Cancer of pancreas	17
2.2.5	Cancer of other GI organs, peritoneum	18

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
2.3 Cancer of bronchus, lung	19	-
2.4 Cancer of skin	22 23	-
2.4.1 Melanomas of skin	22	-
2.4.2 Other non-epithelial cancer of skin	23	-
2.5 Cancer of breast	24	-
2.6 Cancer of uterus and cervix	25 26	-
2.6.1 Cancer of uterus	25	-
2.6.2 Cancer of cervix	26	-
2.7 Cancer of other female genital organs	27 28	-
2.7.1 Cancer of ovary	27	-
2.7.2 Cancer of other female genital organs	28	-
2.8 Cancer of male genital organs	29 30 31	-
2.8.1 Cancer of prostate	29	-
2.8.2 Cancer of testis	30	-
2.8.3 Cancer of other male genital organs	31	-
2.9 Cancer of urinary organs	32 33 34	-
2.9.1 Cancer of bladder	32	-
2.9.2 Cancer of kidney and renal pelvis	33	-
2.9.3 Cancer of other urinary organs	34	-
2.10 Cancer of lymphatic and hematopoietic tissue	37 38 39 40	-
2.10.1 Hodgkin's disease	37	-
2.10.2 Non-Hodgkin's lymphoma	38	-
2.10.3 Leukemias	39	-
2.10.4 Multiple myeloma	40	-
2.11 Cancer, other primary	11 20 21 35 36 41	-
2.11.1 Cancer of head and neck	11	-
2.11.2 Cancer, other respiratory and intrathoracic	20	-
2.11.3 Cancer of bone and connective tissue	21	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code						
2.11.4	Cancer of brain and nervous system	35	-						
2.11.5	Cancer of thyroid	36	-						
2.11.6	Cancer, other and unspecified primary	41	-						
2.12	Secondary malignancies	42	-						
2.12.1	Secondary malignancy of lymph nodes	-		1960	1961	1962	1963	1965	1966
				1968	1969				
2.12.2	Secondary malignancy of lung	-		1970					
2.12.3	Secondary malignancy of liver	-		1977					
2.12.4	Secondary malignancy of brain/spine	-		1983					
2.12.5	Secondary malignancy of bone	-		1985					
2.12.6	Other secondary malignancy	-		1971	1972	1973	1974	1975	1976
				1978	1980	1981	1982	1984	
				1986	1987	1988	1988	1988	1988
2.13	Malignant neoplasm without specification of site	43	-						
2.14	Neoplasms of unspecified nature or uncertain behavior	44	-						
2.15	Maintenance chemotherapy, radiotherapy	45	-						
2.15.1	Radiotherapy	-		V580	V661	V671			
2.15.2	Chemotherapy	-		V581	V662	V672			
2.16	Benign neoplasms	46 47	-						
2.16.1	Benign neoplasm of uterus	46	-						
2.16.2	Other and unspecified benign neoplasm	47	-						
2.16.2.1	Benign neoplasm of ovary	-		220					
2.16.2.2	Benign neoplasm of colon	-		2113	2114				
2.16.2.3	Benign neoplasm of the thyroid	-		226					
2.16.2.4	Benign neoplasm of cerebral meninges	-		2252					
2.16.2.5	Other and unspecified	-		2100	2101	2102	2103	2104	2105

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
benign neoplasms		2106 2107 2108 2109 2110 2111 2112 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2148 2149 2150 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 217 2210 2211 2212 2218 2219 2220 2221 2222 2223 2224 2228 2229 2230 2231 2232 2233 22381 22389 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2253 2254 2258 2259 2270 2271 2273 2274 2275 2276 2278 2279 22800 22801 22802 22803 22804 22809 2281 2290 2298 2299
3 Endocrine, nutritional, metabolic, and immunity disorders	48 49 50 51 52 53 54 55 56 57 58	-
3.1 Thyroid disorders	48	-
3.1.1 Thyrotoxicosis with or without goiter	-	24200 24201 24210 24211 24220 24221 24230 24231 24240 24241 24280 24281 24290 24291
3.1.2 Other thyroid disorders	-	2400 2409 2410 2411 2419 243 2440 2441 2442 2443 2448 2449 2450 2451 2452 2453 2454 2458 2459 2460 2461 2462 2463 2468 2469 7945
3.2 Diabetes mellitus without complication	49	-
3.3 Diabetes mellitus with complications	50	-
3.3.1 Diabetes with ketoacidosis or uncontrolled diabetes	-	25002 25003 25010 25011 25012 25013
3.3.2 Diabetes with renal manifestations	-	25040 25041 25042 25043
3.3.3 Diabetes with ophthalmic manifestations	-	25050 25051 25052 25053
3.3.4 Diabetes with neurological manifestations	-	25060 25061 25062 25063
3.3.5 Diabetes with circulatory manifestations	-	25070 25071 25072 25073
3.3.6 Diabetes with unspecified	-	25090 25091

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
complications		
3.3.7 Diabetes with other manifestations	-	25020 25021 25022 25023 25030 25031 25032 25033 25080 25081 25082 25083 25092 25093 2510
3.4 Other endocrine disorders	51	-
3.5 Nutritional deficiencies	52	-
3.5.1 Unspecified protein-calorie malnutrition	-	2639
3.5.2 Other malnutrition	-	260 261 262 2630 2631 2632 2638 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2660 2661 2662 2669 267 2680 2681 2682 2689 2690 2691 2692 2693 2698 2699 7994 V121
3.6 Disorders of lipid metabolism	53	-
3.7 Gout and other crystal arthropathies	54	-
3.8 Fluid and electrolyte disorders	55	-
3.8.1 Hyposmolality	-	2761
3.8.2 Hypovolemia	-	2765
3.8.3 Hyperpotassemia	-	2767
3.8.4 Hypopotassemia	-	2768
3.8.5 Other fluid and electrolyte disorders	-	2760 2762 2763 2764 2766 2769
3.9 Cystic fibrosis	56	-
3.10 Immunity disorders	57	-
3.11 Other nutritional, endocrine, and metabolic disorders	58	-
3.11.1 Disorders of mineral metabolism	-	2750 2751 2752 2753 2754 2758 2759
3.11.2 Obesity	-	2780
3.11.3 Other and unspecified metabolic, nutritional, and endocrine disorders	-	2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2718 2719 2725 2726 2727 2728 2729 2730 2731 2732 2733 2738 2739 2771 2772 2773 2774 2775 2776 2778 2779 2781 2782 2783 2784 2788 7831 7832 7833

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		7834 7835 7839 7947 7957 V122
4 Diseases of blood and blood-forming organs	59 60 61 62 63 64	-
4.1 Anemia	59 60 61	-
4.1.1 Acute post-hemorrhagic anemia	60	-
4.1.2 Sickle cell anemia	61	-
4.1.3 Other anemia	59	-
4.1.3.1 Iron deficiency anemia	-	2801 2808 2809
4.1.3.2 Other deficiency anemia	-	2810 2811 2812 2813 2814 2818 2819
4.1.3.3 Aplastic anemia	-	2840 2848 2849
4.1.3.4 Chronic blood loss anemia	-	2800
4.1.3.5 Acquired hemolytic anemia	-	2830 2831 28310 28311 28319 2832 2839
4.1.3.6 Other specified anemia	-	2820 2821 2822 2823 2824 2827 2828 2829 2850 2858
4.1.3.7 Anemia, unspecified	-	2859
4.2 Coagulation and hemorrhagic disorders	62	-
4.2.1 Coagulation defects	-	2860 2861 2862 2863 2864 2865 2866 2867 2869
4.2.2 Thrombocytopenia	-	2873 2874 2875
4.2.3 Other coagulation and hemorrhagic disorders	-	2870 2871 2872 2878 2879 7827
4.3 Diseases of white blood cells	63	-
4.4 Other hematologic conditions	64	-
5 Mental disorders	69 70 71 72 73 74 75	-
5.1 Mental retardation	65	-
5.2 Alcohol and substance-related mental disorders	66 67	-
5.2.1 Alcohol-related mental disorders	66	-
5.2.1.1 Acute alcoholic intoxication	-	30300 30301 30302 30303
5.2.1.2 Other and unspecified	-	30390 30391 30392 30393

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
	alcohol dependence		
5.2.1.3	Nondependent alcohol abuse	-	30500 30501 30502 30503
5.2.1.4	Other alcohol-related mental disorders	-	2910 2911 2912 2913 2914 2915 2918 2919
5.2.2	Substance-related mental disorders	67	-
5.2.2.1	Opioid dependence	-	30400 30401 30402 30403
5.2.2.2	Cocaine dependence	-	30420 30421 30422 30423
5.2.2.3	Other, combined, and unspecified drug dependence	-	30410 30411 30412 30413 30430 30431 30432 30433 30440 30441 30442 30443 30450 30451 30452 30453 30460 30461 30462 30463 30470 30471 30472 30473 30480 30481 30482 30483 30490 30491 30492 30493
5.2.2.4	Cocaine abuse	-	30560 30561 30562 30563
5.2.2.5	Other, mixed, or unspecified drug abuse	-	30520 30521 30522 30523 30530 30531 30532 30533 30540 30541 30542 30543 30550 30551 30552 30553 30570 30571 30572 30573 30580 30581 30582 30583 30590 30591 30592 30593
5.2.2.6	Other substance-related mental disorders	-	2920 29211 29212 2922 29281 29282 29283 29284 29289 2929 30510 30511 30512 30513
5.3	Senility and organic mental disorders	68	-
5.3.1	Senile dementia, uncomplicated	-	2900
5.3.2	Arteriosclerotic dementia	-	29040 29041 29042 29043
5.3.3	Transient organic psychotic conditions	-	2930 2931 29381 29382 29383 29389 2939
5.3.4	Specific nonpsychotic mental disorders due to organic brain damage	-	3100 3101 3102 3108 3109
5.3.5	Presenile dementia, uncomplicated	-	29010
5.3.6	Senile dementia with delirium	-	2903
5.3.7	Other senility and organic mental disorders	-	29011 29012 29013 29020 29021 2908 2909 2940 2941 2948 2949 3310 3311 3312 797
5.4	Affective disorders	69	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code				
5.4.1	Major depressive disorder, single episode	-	29620 29625	29621 29626	29622	29623	29624
5.4.2	Major depressive disorder, recurrent episode	-	29630 29635	29631 29636	29632	29633	29634
5.4.3	Neurotic depression	-	3004				
5.4.4	Bipolar affective disorder	-	29640 29645 29653 29661 29666	29641 29646 29654 29662 29667	29642	29643	29644 29652 29660 29665
5.4.5	Manic-depressive psychosis	-	29680	29681	29682	29689	
5.4.6	Other affective disorders	-	29600 29605 29613 29699	29601 29606 29614 2980	29602	29603	29604 29612 29690 30113
5.5	Schizophrenia and related disorders	70	-				
5.5.1	Paranoid schizophrenia	-	29530 29535	29531	29532	29533	29534
5.5.2	Schizo-affective type	-	29570 29575	29571	29572	29573	29574
5.5.3	Other schizophrenia	-	29500 29505 29514 29523 29542 29551 29560 29565 29584 29593 29910	29501 29510 29515 29524 29543 29552 29561 29580 29585 29594 29911	29502	29503	29504 29513 29522 29541 29550 29555 29564 29583 29592 29901 29990
5.6	Other psychoses	71	-				
5.7	Anxiety, somatoform, dissociative, and personality disorders	72	-				
5.7.1	Anxiety states	-	30000	30001	30002	30009	
5.7.2	Personality disorders	-	3010 30122 30159 30183	30110 3013 3016 30184	30112	30120	30121 30151 30182 3019
5.7.3	Other anxiety, somatoform,	-	30010	30011	30012	30013	30014

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
	dissociative, and personality disorders		30015 30016 30019 30020 30021 30022 30023 30029 3003 3005 3006 3007 30081 30740 30741 30742 30743 30744 30745 30747 30748 30749 30780 30781 30789 3079 3080 3081 3082 3083 3084 3089 30981 31230 31231 31232 31233 31234 31235 31239
5.8	Preadult disorders	73	-
5.9	Other mental conditions	74	-
5.9.1	Adjustment reaction	-	3090 3091 30922 30923 30924 30928 30929 3093 3094 30982 30983 30989 3099
5.9.1.1	Brief depressive reaction	-	3090
5.9.1.2	Other adjustment reaction	-	3091 30922 30923 30924 30928 30929 3093 3094 30982 30983 30989 3099
5.9.2	Depressive disorder, not elsewhere classified	-	311
5.9.3	Other and unspecified mental conditions	-	30089 3009 3021 3022 3023 3024 30250 30251 30252 30253 3026 30270 30271 30272 30273 30274 30275 30276 30279 30281 30282 30283 30284 30285 30289 3029 3060 3061 3062 3063 3064 30650 30651 30652 30653 30659 3066 3067 3068 3069 3070 3071 30720 30721 30722 30723 3073 30746 30750 30751 30752 30753 30754 30759 3076 3077 3131 31322 31323 3133 31381 31382 31383 31389 3139 31500 31501 31502 31509 3151 3152 31531 31539 3154 3155 3158 3159 316 7801
5.10	Personal history of mental disorder, mental and behavioral problems, observation and screening for mental condition	75	-
6	Diseases of nervous system and sense organs	76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	-
6.1	Central nervous system infection	76 77 78	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
6.1.1	Meningitis (except that caused by tuberculosis or sexually transmitted infections)	76	-
6.1.2	Encephalitis (except that caused by tuberculosis and sexually transmitted diseases)	77	-
6.1.3	Other CNS infection and poliomyelitis	78	-
6.2	Hereditary and degenerative nervous system conditions	79 80 81	-
6.2.1	Parkinson's disease	79	-
6.2.2	Multiple sclerosis	80	-
6.2.3	Other hereditary and degenerative nervous system conditions	81	-
6.2.3.1	Disorders of the autonomic nervous system	-	3370 3371 3379
6.2.3.2	Other and unspecified hereditary and degenerative nervous system conditions	-	3300 3301 3302 3303 3308 3309 3313 3314 3317 33181 33189 3319 3330 3331 3332 3333 3334 3335 3336 3337 33381 33382 33383 33384 33389 33390 33391 33399 3340 3341 3342 3343 3344 3348 3349 3350 33510 33511 33519 33520 33521 33522 33523 33524 33529 3358 3359 3360 3361 3362 3363 3368 3369
6.3	Paralysis	82	-
6.3.1	Hemiplegia	-	3420 3421 3429
6.3.2	Other paralysis	-	3430 3431 3432 3433 3434 3438 3439 3440 3441 3442 3443 3444 3445 34460 3448 34481 34489 3449 7814
6.4	Epilepsy, convulsions	83	-
6.4.1	Epilepsy	-	3450 34500 34501 3451 34510 34511 3452 3453 3454 34540 34541 3455 34550 34551 3456 34560 34561 3457 34570 34571 3458 34580 34581 3459 34590 34591
6.4.2	Convulsions	-	7803
6.5	Headache, including migraine	84	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
6.5.1	Migraine	-	3460 34600 34601 3461 34610 34611 3462 34620 34621 3468 34680 34681 3469 34690 34691
6.5.2	Other headache	-	7840
6.6	Coma, stupor, and brain damage	85	-
6.7	Eye disorders	86 87 88 89 90 91	-
6.7.1	Cataract	86	-
6.7.2	Retinal detachments, defects, vascular occlusion, and retinopathy	87	-
6.7.2.1	Retinal detachment with defect	-	36100 36101 36102 36103 36104 36105 36106 36107
6.7.2.2	Other retinal detachment or defect	-	36110 36111 36112 36113 36114 36119 3612 36130 36131 36132 36133 36181 36189 3619
6.7.2.3	Other retinal disorders	-	36201 36202 36210 36211 36212 36213 36214 36215 36216 36217 36218 36221 36229 36230 36231 36232 36233 36234 36235 36236 36237 36240 36241 36242 36243 36250 36251 36252 36253 36254 36255 36256 36257 36260 36261 36262 36263 36264 36265 36266 36270 36271 36272 36273 36274 36275 36276 36277 36281 36282 36283 36284 36285 36289 3629
6.7.3	Glaucoma	88	-
6.7.4	Blindness and vision defects	89	-
6.7.5	Inflammation, infection of eye (except that caused by tuberculosis and sexually transmitted diseases)	90	-
6.7.6	Other eye disorders	91	-
6.8	Ear conditions	92 93 94	-
6.8.1	Otitis media and related conditions	92	-
6.8.1.1	Suppurative and unspecified otitis media	-	38200 38201 38202 3821 3822 3823 3824 3829
6.8.1.2	Other otitis media and related conditions	-	0552 38100 38101 38102 38103 38104 38105 38106 38110 38119 38120 38129 3813 3814 38150 38151 38152 38160 38161 38162 38163 3817

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		38181 38189 3819 38300 38301 38302 3831 38320 38321 38322 38330 38331 38332 38333 38381 38389 3839 38420 38421 38422 38423 38424 38425 38481 38482 3849 38500 38501 38502 38503 38509 38510 38511 38512 38513 38519 38521 38522 38523 38524 3870 3871 3872 3878 3879
6.8.2	Conditions associated with dizziness or vertigo	93 -
6.8.3	Other ear and sense organ disorders	94 -
6.9	Other nervous system disorders	95 -
6.9.1	Disorders of the peripheral nervous system	- 3501 3502 3508 3509 3510 3511 3518 3519 3520 3521 3522 3523 3524 3525 3526 3529 3530 3531 3532 3533 3534 3535 3536 3538 3539 3540 3541 3542 3543 3544 3545 3548 3549 3550 3551 3552 3553 3554 3555 3556 3557 35571 35579 3558 3559 3560 3561 3562 3563 3564 3568 3569 3570 3571 3572 3573 3574 3575 3576 3577 3578 3579 3580 3581 3582 3588 3589 3590 3591 3592 3593 3594 3595 3596 3598 3599
6.9.2	Other central nervous system disorders	- 325 3321 33720 33721 33722 33729 3410 3411 3418 3419 34461 3473480 3482 3483 3484 3485 3488 3489 3492 34981 34982 34989 3499
6.9.3	Other nervous system symptoms and disorders	- 7810 7811 7812 7813 7817 7820 7843 7845 78460 78461 78469 7920 7930 79400 79401 79402 79409 79410 79411 79412 79413 79414 79415 79416 79417 79419 7961 V124 V415 V452 V484 V485 V493 V530
7	Diseases of the circulatory system	96 97 98 99 - 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
		115 116 117 118 119 120 121	
7.1	Hypertension	98 99	-
7.1.1	Essential hypertension	98	-
7.1.2	Hypertension with complications and secondary hypertension	99	-
7.1.2.1	Hypertensive heart and/or renal disease	-	40200 40201 40210 40211 40290 40291 4030 40300 40301 4031 40310 40311 4039 40390 40391 4040 40400 40401 40402 40403 4041 40410 40411 40412 40413 4049 40490 40491 40492 40493
7.1.2.2	Other hypertensive complications	-	4010 40501 40509 40511 40519 40591 40599 4372
7.2	Diseases of the heart	96 97 100 101 102 103 104 105 106 107 108	-
7.2.1	Heart valve disorders	96	-
7.2.1.1	Chronic rheumatic disease of the heart valves	-	3940 3941 3942 3949 3950 3951 3952 3959 3960 3961 3962 3963 3968 3969 3970 3971 3979
7.2.1.2	Nonrheumatic mitral valve disorders	-	4240
7.2.1.3	Nonrheumatic aortic valve disorders	-	4241
7.2.1.4	Other heart valve disorders	-	4242 4243 42490 42491 42499 7852 7853 V422 V433
7.2.2	Peri-, endo-, and myocarditis, cardiomyopathy (except that caused by tuberculosis and sexually transmitted diseases)	97	-
7.2.2.1	Cardiomyopathy	-	4250 4251 4252 4253 4254 4255 4257 4258 4259
7.2.2.2	Other peri-, endo-, and myocarditis	-	03282 03640 03641 03642 03643 07420 07421 07422 07423 11281 11503 11504 11513 11514 11593 11594 1303 3910 3911 3912 3918 3919 3920 393 3980 39890 39899 4200 42090 42091 42099 4210 4211 4219 4220 42290 42291 42292 42293

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
			42299 4230 4231 4232 4238 4239 4290
7.2.3	Acute myocardial infarction	100	-
7.2.4	Coronary atherosclerosis	101	-
7.2.4.1	Angina pectoris	-	4130 4131 4139
7.2.4.2	Unstable angina (intermediate coronary syndrome)	-	4111
7.2.4.3	Other acute and subacute forms of ischemic heart disease	-	4110 4118 41181 41189
7.2.4.4	Coronary atherosclerosis	-	4140
7.2.4.5	Other forms of chronic heart disease	-	412 4148 4149 V4581
7.2.5	Nonspecific chest pain	102	-
7.2.6	Pulmonary heart disease	103	-
7.2.7	Other and ill-defined heart disease	104	-
7.2.8	Conduction disorders	105	-
7.2.8.1	Atrioventricular block	-	4260 42610 42611 42612 42613
7.2.8.2	Bundle branch block	-	4262 4263 4264 42650 42651 42652 42653 42654
7.2.8.3	Anomalous atrioventricular excitation	-	4267
7.2.8.4	Other conduction disorders	-	4266 42681 42689 4269 V450 V533
7.2.9	Cardiac dysrhythmias	106	-
7.2.9.1	Paroxysmal supraventricular tachycardia	-	4270
7.2.9.2	Paroxysmal ventricular tachycardia	-	4271
7.2.9.3	Atrial fibrillation	-	42731
7.2.9.4	Atrial flutter	-	42732
7.2.9.5	Premature beats	-	42760 42761 42769

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
7.2.9.6	Sinoatrial node dysfunction	-	42781
7.2.9.7	Other cardiac dysrhythmias	-	4272 42789 4279 7850 7851
7.2.10	Cardiac arrest and ventricular fibrillation	107	-
7.2.11	Congestive heart failure, nonhypertensive	108	-
7.2.11.1	Congestive heart failure	-	4280
7.2.11.2	Heart failure	-	39891 4281 4289
7.3	Cerebrovascular disease	109 110 111 112 113	-
7.3.1	Acute cerebrovascular disease	109	-
7.3.1.1	Intracranial hemorrhage	-	430 431 4320 4321 4329
7.3.1.2	Occlusion of cerebral arteries	-	43301 43311 43321 43331 43381 43391 4340 43400 43401 4341 43410 43411 4349 43490 43491
7.3.1.3	Acute but ill-defined cerebrovascular accident	-	436
7.3.2	Occlusion or stenosis of precerebral arteries	110	-
7.3.3	Other and ill-defined cerebrovascular disease	111	-
7.3.4	Transient cerebral ischemia	112	-
7.3.5	Late effects of cerebrovascular disease	113	-
7.4	Diseases of arteries, arterioles, and capillaries	114 115 116 117	-
7.4.1	Peripheral and visceral atherosclerosis	114	-
7.4.1.1	Atherosclerosis of arteries of extremities	-	4402 44020 44021 44022 44023 44029
7.4.1.2	Peripheral vascular disease unspecified	-	4439
7.4.1.3	Other peripheral and visceral atherosclerosis	-	4400 4401 4408 4409 5570 5571 5579

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
7.4.2	Aortic, peripheral, and visceral artery aneurysms	115	-
7.4.2.1	Abdominal aortic aneurysm, without rupture	-	4414
7.4.2.2	Other aneurysm	-	4410 4411 4412 4413 4415 4416 4417 4419 4420 4421 4422 4423 44281 44282 44283 44284 44289 4429
7.4.3	Aortic and peripheral arterial embolism or thrombosis	116	-
7.4.3.1	Arterial embolism and thrombosis of lower extremity artery	-	44422
7.4.3.2	Other arterial embolism and thrombosis	-	4440 4441 44421 44481 44489 4449
7.4.4	Other circulatory disease	117	-
7.4.4.1	Hypotension	-	4580 4581 4589
7.4.4.2	Other and unspecified circulatory disease	-	4430 4431 44381 44389 4460 4461 4462 44620 44621 44629 4463 4464 4465 4466 4467 4470 4471 4472 4473 4474 4475 4476 4478 4479 4480 4481 4489 4590 45989 4599 7859 79430 79431 79439 7962 V125 V151 V421 V432 V434 V717
7.5	Diseases of veins and lymphatics	118 119 120 121	-
7.5.1	Phlebitis, thrombophlebitis and thromboembolism	118	-
7.5.1.1	Phlebitis and thrombophlebitis	-	4510 45111 45119 4512 45181 45182 45183 45184 45189 4519
7.5.1.2	Other venous embolism and thrombosis	-	452 4530 4531 4532 4533 4538 4539
7.5.2	Varicose veins of lower extremity	119	-
7.5.3	Hemorrhoids	120	-
7.5.4	Other diseases of veins and lymphatics	121	-
8	Diseases of the respiratory system	122 123 124 125 126 127 128 129 130	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
		131 132 133 134	
8.1	Respiratory infections	122 123 124 125 126	-
8.1.1	Pneumonia (except that caused by tuberculosis and sexually transmitted diseases)	122	-
8.1.1.1	Pneumococcal pneumonia	-	481
8.1.1.2	Other bacterial pneumonia	-	00322 0203 0204 0205 0212 0221 0310 0391 4820 4821 4822 4823 48230 48231 48232 48239 4824 4828 48281 48282 48283 48289
8.1.1.3	Pneumonia, organism unspecified	-	486
8.1.1.4	Other pneumonia	-	0521 0551 0730 0830 1124 1140 1144 1145 11505 11515 11595 1304 1363 4800 4801 4802 4808 4809 4829 483 4830 4838 4841 4843 4845 4846 4847 4848 485 5130 5171
8.1.2	Influenza	123	-
8.1.3	Acute and chronic tonsillitis	124	-
8.1.4	Acute bronchitis	125	-
8.1.5	Other upper respiratory infections	126	-
8.1.5.1	Acute upper respiratory infections of multiple or unspecified sites	-	4658 4659
8.1.5.2	Chronic sinusitis	-	4730 4731 4732 4733 4738 4739
8.1.5.3	Croup	-	4644
8.1.5.4	Other and unspecified upper respiratory infections	-	0320 0321 0322 0323 0340 460 4610 4611 4612 4613 4618 4619 462 4640 46410 46411 46420 46421 46430 46431 4650
8.2	Chronic obstructive pulmonary disease and bronchiectasis	127	-
8.2.1	Emphysema	-	4928
8.2.2	Chronic airway obstruction, not otherwise specified	-	496

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code					
8.2.3	Obstructive chronic bronchitis	-	4912	49120	49121			
8.2.4	Other chronic pulmonary disease	-	490	4910	4911	4918	4919	4920 494
8.3	Asthma	128	-					
8.3.1	Chronic obstructive asthma	-	49320	49321				
8.3.1.1	Chronic obstructive asthma without status asthmaticus	-	49320					
8.3.1.2	Chronic obstructive asthma with status asthmaticus	-	49321					
8.3.2	Other and unspecified asthma	-	49300	49301	49310	49311	49390	49391
8.3.2.1	Other asthma without status asthmaticus	-	49300	49310	49390			
8.3.2.2	Other asthma with status asthmaticus	-	49301	49311	49391			
8.4	Aspiration pneumonitis, food/vomitus	129	-					
8.5	Pleurisy, pneumothorax, pulmonary collapse	130	-					
8.5.1	Pleurisy, pleural effusion	-	5110	5111	5118	5119		
8.5.2	Pulmonary collapse, interstitial and compensatory emphysema	-	5180	5181	5182			
8.5.3	Empyema and pneumothorax	-	5100	5109	5120	5128		
8.6	Respiratory failure, insufficiency, arrest (adult)	131	-					
8.6.1	Respiratory failure	-	51881					
8.6.2	Other respiratory insufficiency	-	5185	51882	7991	V461		
8.7	Lung disease due to external agents	132	-					
8.8	Other lower respiratory disease	133	-					
8.8.1	Postinflammatory pulmonary fibrosis	-	515					
8.8.2	Painful respiration	-	78652					
8.8.3	Other and unspecified lower respiratory disease	-	5131	514	5160	5161	5162	5163 5168 5169 5172 5178 5183 5184 51889 5194 5198 5199 7825 78600 78601 78602 78609

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		7862 7863 7864 7866 7867 7868 7869 7931 7942 V126 V426
8.9 Other upper respiratory disease	134	-
9 Diseases of the digestive system	135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155	-
9.1 Intestinal infection	135	-
9.2 Disorders of teeth and jaw	136	-
9.3 Diseases of mouth, excluding dental	137	-
9.4 Upper gastrointestinal disorders	138 139 140 141	-
9.4.1 Esophageal disorders	138	-
9.4.1.1 Esophagitis	-	5301 53010 53011 53019
9.4.1.2 Other esophageal disorders	-	4561 45621 5300 5302 5303 5304 5305 5306 5308 53081 53083 53084 53089 5309
9.4.2 Gastroduodenal ulcer (except hemorrhage)	139	-
9.4.2.1 Gastric ulcer	-	53110 53111 53130 53131 53150 53151 53170 53171 53190 53191
9.4.2.2 Duodenal ulcer	-	53210 53211 53230 53231 53250 53251 53270 53271 53290 53291
9.4.2.3 Peptic ulcer, site unspecified	-	53310 53311 53330 53331 53350 53351 53370 53371 53390 53391
9.4.2.4 Gastrojejunal ulcer	-	53410 53411 53430 53431 53450 53451 53470 53471 53490 53491
9.4.3 Gastritis and duodenitis	140	-
9.4.3.1 Acute gastritis	-	5350 53500 53501
9.4.3.2 Other specified gastritis	-	5351 53510 53511 5352 53520 53521 5353 53530 53531 5354 53540 53541
9.4.3.3 Unspecified gastritis and gastroduodenitis	-	5355 53550 53551
9.4.3.4 Duodenitis	-	5356 53560 53561
9.4.4 Other disorders of stomach and	141	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
	duodenum		
9.5	Abdominal hernia	143	-
9.5.1	Inguinal hernia	-	55000 55001 55002 55003 55010 55011 55012 55013 55090 55091 55092 55093
9.5.1.1	Inguinal hernia with obstruction or gangrene	-	55000 55001 55002 55003 55010 55011 55012 55013
9.5.1.2	Inguinal hernia without obstruction or gangrene	-	55090 55091 55092 55093
9.5.2	Diaphragmatic hernia	-	5513 5523 5533
9.5.3	Other abdominal hernia	-	55100 55101 55102 55103 5511 55120 55121 55129 5518 5519 55200 55201 55202 55203 5521 55220 55221 55229 5528 5529 55300 55301 55302 55303 5531 55320 55321 55329 5538 5539
9.5.3.1	Femoral hernia with obstruction/gangrene	-	55100 55101 55102 55103 55200 55201 55202 55203
9.5.3.2	Femoral hernia without obstruction/gangrene	-	55300 55301 55302 55303
9.5.3.3	Umbilical hernia with obstruction/gangrene	-	5511 5521
9.5.3.4	Umbilical hernia without obstruction/gangrene	-	5531
9.5.3.5	Ventral hernia with obstruction/gangrene	-	55120 55129 55220 55229
9.5.3.6	Ventral hernia without obstruction/gangrene	-	55320 55329
9.5.3.7	Incisional hernia with obstruction/gangrene	-	55121 55221
9.5.3.8	Incisional hernia without obstruction/gangrene	-	55321
9.5.3.9	Other and unspecified hernia	-	5518 5519 5528 5529 5538 5539
9.6	Lower gastrointestinal disorders	142 144 145 146 147 148	-
9.6.1	Appendicitis and other appendiceal conditions	142	-
9.6.1.1	Acute appendicitis with	-	5400 5401

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
	abscess or peritonitis		
9.6.1.2	Acute appendicitis without abscess or peritonitis	-	5409
9.6.1.3	Acute appendicitis, not otherwise specified	-	541
9.6.1.4	Other appendicitis	-	542 5430 5439
9.6.2	Regional enteritis and ulcerative colitis	144	-
9.6.3	Intestinal obstruction without hernia	145	-
9.6.3.1	Paralytic ileus	-	5601
9.6.3.2	Impaction of intestine	-	56030 56039
9.6.3.3	Peritoneal or intestinal adhesions	-	56081
9.6.3.4	Other intestinal obstruction	-	5600 5602 56031 56089 5609
9.6.4	Diverticulosis and diverticulitis	146	-
9.6.4.1	Diverticulosis	-	56200 56202 56210 56212
9.6.4.2	Diverticulitis	-	56201 56203 56211 56213
9.6.5	Anal and rectal conditions	147	-
9.6.6	Peritonitis and intestinal abscess	148	-
9.7	Biliary tract disease	149	-
9.7.1	Cholelithiasis with acute cholecystitis	-	57400 57401
9.7.2	Cholelithiasis with other cholecystitis	-	57410 57411
9.7.3	Cholelithiasis without mention of cholecystitis	-	57420 57421
9.7.4	Calculus of bile duct	-	57430 57431 57440 57441 57450 57451
9.7.5	Cholecystitis without cholelithiasis	-	5750 5751
9.7.6	Other biliary tract disease	-	5752 5753 5754 5755 5756 5758 5759 5760 5761 5762 5763 5764 5765 5768 5769 7933
9.8	Liver disease	-	-
9.8.1	Liver disease, alcohol-related	150	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
9.8.2	Other liver diseases	151	-
9.8.2.1	Cirrhosis of liver without mention of alcohol	-	5715
9.8.2.2	Liver abscess and sequelae of chronic liver disease	-	5720 5721 5722 5723 5724 5728
9.8.2.3	Ascites	-	7895
9.8.2.4	Other and unspecified liver disorders	-	570 5716 5718 5719 5730 5734 5738 5739 7824 7891 7904 7905 7948 V427
9.9	Pancreatic disorders (not diabetes)	152	-
9.9.1	Acute pancreatitis	-	5770
9.9.2	Chronic pancreatitis	-	5771
9.9.3	Other pancreatic disorders	-	5772 5778 5779 5794
9.10	Gastrointestinal hemorrhage	153	-
9.10.1	Hemorrhage from gastrointestinal ulcer	156 157 158 159 160 161 162 163	53100 53101 53120 53121 53140 53141 53160 53161 53200 53201 53220 53221 53240 53241 53260 53261 53300 53301 53320 53321 53340 53341 53360 53361 53400 53401 53420 53421 53440 53441 53460 53461
9.10.2	Melena	-	5781
9.10.3	Gastroesophageal laceration syndrome	-	5307
9.10.4	Other esophageal bleeding	-	4560 45620 53082
9.10.5	Hemorrhage of rectum and anus	-	5693
9.10.6	Hematemesis	-	5780
9.10.7	Hemorrhage of gastrointestinal tract	-	5789
9.11	Noninfectious gastroenteritis	154	-
9.12	Other gastrointestinal disorders	155	-
9.12.1	Constipation	-	5640
9.12.2	Dysphagia	-	7872
9.12.3	Other and unspecified gastrointestinal disorders	-	5581 5582 5641 5645 5647 5648 5649 5680 56881 56882 56889 5689 56981 56982 56983 56984 56985 56989 5699 5790 5791

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		5792 5798 5799 7871 7873 7874 7875 7876 7877 7879 7892 7893 7894 7899 7921 7934 7936 V127 V416 V441 V442 V443 V444 V453 V473 V535 V551 V552 V553 V554
10 Diseases of the genitourinary system	156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175	-
10.1 Diseases of the urinary system	156 157 158 159 160 161 162 163	-
10.1.1 Nephritis, nephrosis, renal sclerosis	156	-
10.1.2 Acute and unspecified renal failure	157	-
10.1.2.1 Acute renal failure	-	5845 5846 5847 5848 5849
10.1.2.2 Unspecified renal failure	-	586
10.1.3 Chronic renal failure	158	-
10.1.4 Urinary tract infections	159	-
10.1.4.1 Infections of kidney	-	59000 59001 59010 59011 5902 5903 59080 59081 5909
10.1.4.2 Cystitis and urethritis	-	03284 5950 5951 5952 5953 5954 59581 59582 59589 5959 5970 59780 59781 59789 59800 59801
10.1.4.3 Urinary tract infection, site not specified	-	5990
10.1.5 Calculus of urinary tract	160	-
10.1.5.1 Calculus of kidney	-	5920
10.1.5.2 Calculus of ureter	-	5921
10.1.5.3 Other and unspecified urinary calculus	-	5929 5940 5941 5942 5948 5949 7880
10.1.6 Other diseases of kidney and ureters	161	-
10.1.6.1 Hydronephrosis	-	591
10.1.6.2 Other and unspecified diseases of kidney and	-	5880 5881 5888 5889 5890 5891 5899 5930 5931 5932 5933 5934

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
	ureters		5935 5936 5937 59381 59382 59389 5939
10.1.7	Other diseases of bladder and urethra	162	-
10.1.7.1	Bladder neck obstruction	-	5960
10.1.7.2	Other and unspecified diseases of bladder and urethra	-	5961 5962 5963 5964 5965 59651 59652 59653 59654 59655 59659 5966 5967 5968 5969 5981 5982 5988 5989 5991 5992 5993 5994 5995 59981 59982 59983 59984
10.1.8	Genitourinary symptoms and ill-defined conditions	163	-
10.1.8.1	Hematuria	-	5997
10.1.8.2	Retention of urine	-	7882 78820 78821 78829
10.1.8.3	Other and unspecified genitourinary symptoms	-	5996 5998 59989 5999 7881 7883 78830 78831 78832 78833 78834 78835 78836 78837 78839 7884 78841 78842 78843 7885 7886 78861 78862 78869 7887 7888 7889 7910 7911 7912 7913 7914 7917 7919 7935 7944 V130 V417 V435 V445 V446 V474 V475 V536 V555 V556
10.2	Diseases of male genital organs	164 165 166	-
10.2.1	Hyperplasia of prostate	164	-
10.2.2	Inflammatory conditions of male genital organs	165	-
10.2.3	Other male genital disorders	166	-
10.3	Diseases of female genital organs	167 168 169 170 171 172 173 174 175	-
10.3.1	Non-malignant breast conditions	167	-
10.3.2	Inflammatory diseases of female pelvic organs	168	-
10.3.2.1	Pelvic peritoneal adhesions	-	6146
10.3.2.2	Cervicitis and endocervicitis	-	6160
10.3.2.3	Pelvic inflammatory disease (PID)	-	6149

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
10.3.2.4	Other inflammatory diseases of female pelvic organs	-	6140 6141 6142 6143 6144 6145 6147 6148 6150 6151 6159 61610 61611 6162 6163 6164 61650 61651 6168 6169
10.3.3	Endometriosis	169	-
10.3.4	Prolapse of female genital organs	170	-
10.3.5	Menstrual disorders	171	-
10.3.6	Ovarian cyst	172	-
10.3.7	Menopausal disorders	173	-
10.3.8	Female infertility	174	-
10.3.9	Other female genital disorders	175	-
10.3.9.1	Female genital pain and other symptoms	-	6250 6251 6252 6254 6255 6256 6258 6259
10.3.9.2	Other and unspecified female genital disorders	-	6190 6191 6192 6198 6199 6203 6204 6205 6206 6207 6208 6209 6210 6211 6212 6213 6214 6215 6216 6217 6218 6219 6220 6221 6222 6223 6224 6225 6226 6227 6228 6229 6230 6231 6232 6233 6234 6235 6236 6237 6238 6239 6240 6241 6242 6243 6244 6245 6246 6248 6249 6267 6290 6291 6298 6299 V132 V557 V723
11	Complications of pregnancy, childbirth, and the puerperium	176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196	-
11.1	Contraceptive and procreative management	176	-
11.1.1	Sterilization	-	V252
11.1.2	Other contraceptive and procreation management	-	V157 V2501 V2502 V2509 V251 V253 V2540 V2541 V2542 V2543 V2549 V255 V258 V259 V260 V261 V262 V263 V264 V268 V269 V455
11.2	Abortion-related disorders	177 178 179	-
11.2.1	Spontaneous abortion	177	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
11.2.2	Induced abortion	178	-
11.2.3	Post-abortion complications	179	-
11.3	Complications mainly related to pregnancy	180 181 182 183 184 185 186	-
11.3.1	Ectopic pregnancy	180	-
11.3.2	Hemorrhage during pregnancy, abruptio placenta, placenta previa	182	-
11.3.2.1	Placenta previa	-	64100 64101 64103 64110 64111
11.3.2.2	Abruptio placenta	-	64120 64121 64123
11.3.2.3	Other hemorrhage during pregnancy, childbirth and the puerperium	-	64000 64001 64003 64080 64081 64083 64090 64091 64093 64113 64130 64131 64133 64180 64181 64183 64190 64191 64193
11.3.3	Hypertension complicating pregnancy, childbirth and the puerperium	183	-
11.3.3.1	Preeclampsia and eclampsia	-	64240 64241 64242 64243 64244 64250 64251 64252 64253 64254 64260 64261 64262 64263 64264 64270 64271 64272 64273 64274
11.3.3.2	Other hypertension in pregnancy	-	64200 64201 64202 64203 64204 64210 64211 64212 64213 64214 64220 64221 64222 64223 64224 64230 64231 64232 64233 64234 64290 64291 64292 64293 64294
11.3.4	Early or threatened labor	184	-
11.3.4.1	Threatened premature labor	-	64400 64403
11.3.4.2	Early onset of delivery	-	64420 64421
11.3.4.3	Other early or threatened labor	-	64410 64413
11.3.5	Prolonged pregnancy	185	-
11.3.6	Diabetes or abnormal glucose tolerance complicating pregnancy, childbirth, or the puerperium	186	-
11.3.7	Other complications of pregnancy	181	-
11.3.7.1	Infections of genitourinary tract	-	64660 64661 64662 64663 64664

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		during pregnancy
11.3.7.2	Anemia during pregnancy	- 64820 64821 64822 64823 64824
11.3.7.3	Mental disorders during pregnancy	- 64840 64841 64842 64843 64844
11.3.7.4	Missed abortion	- 632
11.3.7.5	Hyperemesis gravidarum	- 64300 64301 64303 64310 64311 64313
11.3.7.6	Infectious and parasitic complications in mother affecting management of pregnancy	- 64700 64701 64702 64703 64704 64710 64711 64712 64713 64714 64720 64721 64722 64723 64724 64730 64731 64732 64733 64734 64740 64741 64742 64743 64744 64750 64751 64752 64753 64754 64760 64761 64762 64763 64764 64780 64781 64782 64783 64784 64790 64791 64792 64793 64794
11.3.7.7	Other and unspecified complications of pregnancy	- 630 631 64320 64321 64323 64380 64381 64383 64390 64391 64393 64600 64601 64603 64610 64611 64612 64613 64614 64620 64621 64622 64623 64624 64630 64631 64633 64640 64641 64642 64643 64644 64650 64651 64652 64653 64654 64670 64671 64673 64680 64681 64682 64683 64684 64690 64691 64693 64810 64811 64812 64813 64814 64830 64831 64832 64833 64834 64850 64851 64852 64853 64854 64860 64861 64862 64863 64864 64870 64871 64872 64873 64874 64890 64891 64892 64893 64894
11.4	Indications for care in pregnancy, labor, and delivery	187 188 189 - 190 191
11.4.1	Malposition, malpresentation	187 -
11.4.1.1	Breech presentation	- 65220 65221 65223
11.4.1.2	Other malposition, malpresentation	- 65200 65201 65203 65210 65211 65213 65230 65231 65233 65240 65241 65243 65250 65251 65253 65260 65261 65263 65270 65271 65273 65280 65281 65283 65290 65291 65293 66000 66001 66003
11.4.2	Feto-pelvic disproportion,	188 -

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
obstruction		
11.4.2.1	Feto-pelvic disproportion -	65340 65341 65343
11.4.2.2	Other disproportion or obstruction -	65300 65301 65303 65310 65311 65313 65320 65321 65323 65330 65331 65333 65350 65351 65353 65360 65361 65363 65370 65371 65373 65380 65381 65383 65390 65391 65393 66010 66011 66013 66020 66021 66023 66030 66031 66033 66040 66041 66043 66050 66051 66053 66060 66061 66063 66070 66071 66073 66080 66081 66083 66090 66091 66093
11.4.3	Previous C-section 189	-
11.4.4	Fetal distress and abnormal forces of labor 190	-
11.4.4.1	Fetal distress -	65630 65631 65633
11.4.4.2	Uterine inertia -	66100 66101 66103 66110 66111 66113 66120 66121 66123
11.4.4.3	Precipitate labor -	66130 66131 66133
11.4.4.4	Other abnormal forces of labor -	66140 66141 66143 66190 66191 66193 66200 66201 66203 66210 66211 66213 66220 66221 66223 66230 66231 66233
11.4.5	Polyhydramnios and other problems of amniotic cavity 191	-
11.4.5.1	Premature rupture of membranes -	65810 65811 65813
11.4.5.2	Infection of amniotic cavity -	65840 65841 65843
11.4.5.3	Other problems of amniotic cavity -	65700 65701 65703 65800 65801 65803 65820 65821 65823 65830 65831 65833 65880 65881 65883 65890 65891 65893 7923
11.5	Complications during labor 192 193 194	-
11.5.1	Umbilical cord complication 192	-
11.5.1.1	Cord around neck with compression -	66310 66311 66313
11.5.1.2	Other and unspecified cord entanglement with -	66320 66321 66323 66330 66331 66333

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		or without compression
11.5.1.3	Other umbilical cord complications	- 66300 66301 66303 66340 66341 66343 66350 66351 66353 66360 66361 66363 66380 66381 66383 66390 66391 66393
11.5.2	Trauma to perineum and vulva	193 -
11.5.2.1	First degree perineal laceration	- 66400 66401 66404
11.5.2.2	Second degree perineal laceration	- 66410 66411 66414
11.5.2.3	Third degree perineal laceration	- 66420 66421 66424
11.5.2.4	Fourth degree perineal laceration	- 66430 66431 66434
11.5.2.5	Other perineal laceration and trauma	- 66440 66441 66444 66450 66451 66454 66480 66481 66484 66490 66491 66494
11.5.3	Forceps delivery	194 -
11.6	Other complications of birth, puerperium affecting management of the mother	195 -
11.6.1	Postpartum hemorrhage	- 66600 66602 66604 66610 66612 66614 66620 66622 66624 66630 66632 66634
11.6.2	Complications of the puerperium	- 67000 67002 67004 67100 67101 67102 67103 67104 67110 67111 67112 67113 67114 67120 67121 67122 67123 67124 67130 67131 67133 67140 67142 67144 67150 67151 67152 67153 67154 67180 67181 67182 67183 67184 67190 67191 67192 67193 67194 67200 67202 67204 67300 67301 67302 67303 67304 67310 67311 67312 67313 67314 67320 67321 67322 67323 67324 67330 67331 67332 67333 67334 67380 67381 67382 67383 67384 67400 67401 67402 67403 67404 67410 67412 67414 67420 67422 67424 67430 67432 67434 67440 67442 67444 67480 67482 67484 67490 67492 67494 67500 67501 67502 67503 67504 67510 67511 67512 67513 67514 67520 67521 67522 67523 67524

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code				
	-	67580	67581	67582	67583	67584
	-	67590	67591	67592	67593	67594
	-	67600	67601	67602	67603	67604
	-	67610	67611	67612	67613	67614
	-	67620	67621	67622	67623	67624
	-	67630	67631	67632	67633	67634
	-	67640	67641	67642	67643	67644
	-	67650	67651	67652	67653	67654
	-	67660	67661	67662	67663	67664
	-	67680	67681	67682	67683	67684
	-	67690	67691	67692	67693	67694
11.6.3	-	65450	65451	65452	65453	65454
11.6.4	-	65610	65611	65613		
11.6.5	-	65640	65641	65643		
11.6.6	-	65900	65901	65903	65910	65911
	-	65913				
11.6.7	-	66500	66501	66503	66510	66511
	-	66512	66514	66520	66522	66524
	-	66530	66531	66534	66540	66541
	-	66544	66550	66551	66554	66560
	-	66561	66564	66570	66571	66572
	-	66574	66580	66581	66582	66583
	-	66584	66590	66591	66592	66593
	-	66594				
11.6.8	-	65103	65113	65123	65130	65131
	-	65133	65140	65141	65143	65150
	-	65151	65153	65160	65161	65163
	-	65183	65193	65400	65401	65402
	-	65403	65404	65410	65411	65412
	-	65413	65414	65430	65431	65432
	-	65433	65434	65440	65441	65442
	-	65443	65444	65460	65461	65462
	-	65463	65464	65470	65471	65472
	-	65473	65474	65480	65481	65482
	-	65483	65484	65490	65491	65492
	-	65493	65494	65500	65501	65503
	-	65510	65511	65513	65520	65521
	-	65523	65530	65531	65533	65540
	-	65541	65543	65550	65551	65553
	-	65560	65561	65563	65580	65581
	-	65583	65590	65591	65593	65600
	-	65601	65603	65620	65621	65623
	-	65650	65651	65653	65660	65661
	-	65663	65670	65671	65673	65680
	-	65681	65683	65690	65691	65693
	-	65920	65921	65923	65930	65931
	-	65933	65940	65941	65943	65950

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		65951 65953 65960 65961 65963 65980 65981 65983 65990 65991 65993 66700 66702 66704 66710 66712 66714 66800 66801 66802 66803 66804 66810 66811 66812 66813 66814 66820 66821 66822 66823 66824 66880 66881 66882 66883 66884 66890 66891 66892 66893 66894 66900 66901 66902 66903 66904 66910 66911 66912 66913 66914 66920 66921 66922 66923 66924 66930 66932 66934 66940 66941 66942 66944 66960 66961 66970 66971 66980 66981 66982 66983 66984 66990 66991
		66992 66993 66994 V230 V231 V232 V233 V234 V235 V237 V238 V239
11.7 Normal pregnancy and/or delivery	196	-
11.7.1 Normal delivery	-	650
11.7.2 Multiple gestation	-	65100 65101 65110 65111 65120 65121 65180 65181 65190 65191
11.7.3 Outcome of delivery (V codes)	-	V220 V221 V222 V240 V241 V242 V270 V271 V272 V273 V274 V275 V276 V277 V279 V724
12 Diseases of the skin and subcutaneous tissue	197 198 199 200	-
12.1 Skin and subcutaneous tissue infections	197	-
12.1.1 Cellulitis and abscess	-	68100 68101 68102 68110 68111 68119 6820 6821 6822 6823 6824 6825 6826 6827 6828 6829
12.1.1.1 Cellulitis and abscess of fingers and toes	-	68100 68101 68102 68110 68111 68119
12.1.1.2 Cellulitis and abscess of face	-	6820
12.1.1.3 Cellulitis and abscess of arm	-	6823
12.1.1.4 Cellulitis and abscess of hand	-	6824
12.1.1.5 Cellulitis and abscess of leg	-	6826

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code					
12.1.1.6	Cellulitis and abscess of foot	-	6827					
12.1.1.7	Other cellulitis and abscess	-	6821	6822	6825	6828	6829	
12.1.2	Other skin and subcutaneous infections	-	0201	0210	0220	0311	03285	035
			0390	6800	6801	6802	6803	
			6804	6805	6806	6807	6808	6809
			684	6850	6851	6860	6861	
			6868	6869				
12.2	Other inflammatory condition of skin	198	-					
12.3	Chronic ulcer of skin	199	-					
12.3.1	Decubitus ulcer	-	7070					
12.3.2	Chronic ulcer of leg	-	7071					
12.3.3	Other chronic skin ulcer	-	7078	7079				
12.4	Other skin disorders	200	-					
13	Diseases of the musculoskeletal system and connective tissue	201 202 203 204 205 206 207 208 209 210 211 212	-					
13.1	Infective arthritis and osteomyelitis (except that caused by tuberculosis and sexually transmitted disease)	201	-					
13.2	Non-traumatic joint disorders	202 203 204	-					
13.2.1	Rheumatoid arthritis and related disease	202	-					
13.2.2	Osteoarthritis	203	-					
13.2.2.1	Osteoarthritis, localized	-	71510	71511	71512	71513	71514	
			71515	71516	71517	71518	71520	
			71521	71522	71523	71524	71525	
			71526	71527	71528	71530	71531	
			71532	71533	71534	71535	71536	
			71537	71538				
13.2.2.2	Osteoarthritis, generalized and unspecified	-	71500	71504	71509	71580	71589	
			71590	71591	71592	71593	71594	
			71595	71596	71597	71598	V134	
13.2.3	Other non-traumatic joint disorders	204	-					
13.3	Spondylosis, intervertebral disc disorders, other back problems	205	-					
13.3.1	Spondylosis and allied disorders	-	7210	7211	7212	7213	72141	

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
			72142 7215 7216 7217 7218 72190 72191
13.3.2	Intervertebral disc disorders	-	7220 72210 72211 7222 72230 72231 72232 72239 7224 72251 72252 7226 72270 72271 72272 72273 72280 72281 72282 72283 72290 72291 72292 72293
13.3.3	Other back problems	-	7201 7202 72081 72089 7209 7230 7231 7232 7233 7234 7235 7236 7237 7238 7239 72400 72401 72402 72409 7241 7242 7243 7244 7245 7246 72470 72471 72479 7248 7249
13.3.3.1	Cervical radiculitis	-	7234
13.3.3.2	Spinal stenosis, lumbar region	-	72402
13.3.3.3	Lumbago	-	7242
13.3.3.4	Sciatica	-	7243
13.3.3.5	Thoracic or lumbosacral neuritis or radiculitis, unspecified	-	7244
13.3.3.6	Backache, unspecified	-	7245
13.3.3.7	Other back pain and disorders	-	7201 7202 72081 72089 7209 7230 7231 7232 7233 7235 7236 7237 7238 7239 72400 72401 72409 7241 7246 72470 72471 72479 7248 7249
13.4	Osteoporosis	206	-
13.5	Pathological fracture	207	-
13.6	Acquired deformities	208 209	-
13.6.1	Acquired foot deformities	208	-
13.6.2	Other acquired deformities	209	-
13.7	Systemic lupus erythematosus and connective tissue disorders	210	-
13.8	Other connective tissue disease	211	-
13.9	Other bone disease and musculoskeletal deformities	212	-
14	Congenital anomalies	213 214 215 216 217	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
14.1 Cardiac and circulatory congenital anomalies	213	-
14.1.1 Transposition of great vessels	-	74510
14.1.2 Tetralogy of Fallot	-	7452
14.1.3 Ventricular septal defect	-	7454
14.1.4 Atrial septal defect	-	7455
14.1.5 Endocardial cushion defects	-	74560 74561 74569
14.1.6 Pulmonary valve atresia and stenosis	-	74600 74601 74602 74609
14.1.7 Aortic valve stenosis	-	7463
14.1.8 Patent ductus arteriosus	-	7470
14.1.9 Coarctation of aorta	-	74710
14.1.10 Pulmonary artery anomalies	-	7473
14.1.11 Cerebrovascular anomalies	-	74781
14.1.12 Other cardiac and circulatory congenital anomalies	-	7450 74511 74512 74519 7453 7457 7458 7459 7461 7462 7464 7465 7466 7467 74681 74682 74683 74684 74685 74686 74687 74689 7469 74711 74720 74721 74722 74729 74740 74741 74742 74749 7475 7476 74760 74761 74762 74763 74764 74769 74782 74789 7479
14.2 Digestive congenital anomalies	214	-
14.2.1 Esophageal atresia/tracheoesophageal fistula	-	7503
14.2.2 Pyloric stenosis	-	7505
14.2.3 Rectal and large intestine atresia/stenosis	-	7512
14.2.4 Hirshsprung's disease	-	7513
14.2.5 Other digestive congenital anomalies	-	7500 75010 75011 75012 75013 75015 75016 75019 75021 75022 75023 75024 75025 75026 75027 75029 7504 7506 7507 7508 7509 7510 7511 7514 7515 75160 75161 75162 75169 7517 7518 7519
14.3 Genitourinary congenital anomalies	215	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
14.3.1	Undescended testicle	-	7525
14.3.2	Hypospadias and epispadias	-	7526
14.3.3	Obstructive genitourinary defect	-	7532
14.3.4	Other genitourinary congenital anomalies	-	7520 75210 75211 75219 7522 7523 75240 75241 75242 75249 7527 7528 7529 7530 7531 75310 75311 75312 75313 75314 75315 75316 75317 75319 7533 7534 7535 7536 7537 7538 7539
14.4	Nervous system congenital anomalies	216	-
14.4.1	Spina bifida	-	74100 74101 74102 74103 74190 74191 74192 74193
14.4.2	Congenital hydrocephalus	-	7423
14.4.3	Other nervous system congenital anomalies	-	7400 7401 7402 7420 7421 7422 7424 74251 74253 74259 7428 7429
14.5	Other congenital anomalies	217	-
14.5.1	Cleft palate without cleft lip	-	74900 74901 74902 74903 74904
14.5.2	Cleft lip with or without cleft palate	-	74910 74911 74912 74913 74914 74920 74921 74922 74923 74924 74925
14.5.3	Congenital hip dislocation	-	75430 75431 75432 75433 75435
14.5.4	All other congenital anomalies	-	74300 74303 74306 74310 74311 74312 74320 74321 74322 74330 74331 74332 74333 74334 74335 74336 74337 74339 74341 74342 74343 74344 74345 74346 74347 74348 74349 74351 74352 74353 74354 74355 74356 74357 74358 74359 74361 74362 74363 74364 74365 74366 74369 7438 7439 74400 74401 74402 74403 74404 74405 74409 7441 74421 74422 74423 74424 74429 7443 74441 74442 74443 74446 74447 74449 7445 74481 74482 74483 74484 74489 7449 7480 7481 7482 7483 7484 7485 74860 74861 74869 7488 7489 7540 7541 7542 75440 75441 75442 75443 75444 75450 75451 75452 75453 75459 75460 75461 75462 75469 75470 75471 75479 75481 75482

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		75489 75500 75501 75502 75510 75511 75512 75513 75514 75520
		75521 75522 75523 75524 75525 75526 75527 75528 75529 75530 75531 75532 75533 75534 75535 75536 75537 75538 75539 7554 75550 75551 75552 75553 75554 75555 75556 75557 75558 75559 75560 75561 75562 75563 75564 75565 75566 75567 75569 7558 7559 7560 75610 75611 75612 75613 75614 75615 75616 75617 75619 7562 7563 7564 75650 75651 75652 75653 75654 75655 75656 75659 7566 7567 75681 75682 75683 75689 7569 7570 7571 7572 75731 75732 75733 75739 7574 7575 7576 7578 7579 7580 7581 7582 7583 7584 7585 7586 7587 7588 7589 7590 7591 7592 7593 7594 7595 7596 7597 7598 75981 75982 75983 75989 7599 7952 V136
15 Certain conditions originating in the perinatal period	218 219 220 221 222 223 224	-
15.1 Liveborn	218	-
15.2 Short gestation, low birth weight, and fetal growth retardation	219	-
15.3 Intrauterine hypoxia and birth asphyxia	220	-
15.4 Respiratory distress syndrome	221	-
15.5 Hemolytic jaundice and perinatal jaundice	222	-
15.6 Birth trauma	223	-
15.7 Other perinatal conditions	224	-
15.7.1 Respiratory conditions of fetus and newborn, other than respiratory distress	-	7700 7701 7702 7703 7704 7705 7706 7707 7708 7709
15.7.2 Infections specific to the perinatal period	-	7710 7711 7712 7713 7714 7715 7716 7717 7718
15.7.3 Endocrine and metabolic disturbances of fetus and newborn	-	7750 7751 7752 7753 7754 7755 7756 7757 7758 7759
15.7.4 Other and unspecified perinatal	-	7600 7601 7602 7603 7604 7605

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
conditions		7606 76070 76071 76072 76073 76074 76075 76079 7608 7609 7610 7611 7612 7613 7614 7615 7616 7617 7618 7619 7620 7621 7622 7623 7624 7625 7626 7627 7628 7629 7630 7631 7632 7633 7634 7635 7636 7637 7638 7639 7660 7661 7662 7720 7721 7722 7723 7724 7725 7726 7728 7729 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769 7771 7772 7773 7774 7775 7776 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787 7788 7789 7790 7791 7792 7793 7794 7795 7796 7798 7799 V137 V502
16 Injury and poisoning	225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244	-
16.1 Joint disorders and dislocations, trauma-related	225	-
16.2 Fractures	226 228 229 230 231	-
16.2.1 Fracture of neck of femur (hip)	226	-
16.2.2 Skull and face fractures	228	-
16.2.3 Fracture of upper limb	229	-
16.2.3.1 Fracture of humerus	-	81200 81201 81202 81203 81209 81210 81211 81212 81213 81219 81220 81221 81230 81231 81240 81241 81242 81243 81244 81249 81250 81251 81252 81253 81254 81259
16.2.3.2 Fracture of radius and ulna	-	81300 81301 81302 81303 81304 81305 81306 81307 81308 81310 81311 81312 81313 81314 81315 81316 81317 81318 81320 81321 81322 81323 81330 81331 81332 81333 81340 81341 81342 81343 81344 81350 81351 81352 81353 81354 81380 81381 81382 81383 81390 81391 81392 81393

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
16.2.3.3	Other fracture of upper limb	-	81000 81001 81002 81003 81010 81011 81012 81013 81100 81101 81102 81103 81109 81110 81111 81112 81113 81119 81400 81401 81402 81403 81404 81405 81406 81407 81408 81409 81410 81411 81412 81413 81414 81415 81416 81417 81418 81419 81500 81501 81502 81503 81504 81509 81510 81511 81512 81513 81514 81519 81600 81601 81602 81603 81610 81611 81612 81613 8170 8171 8180 8181 8190 8191 9052
16.2.4	Fracture of lower limb	230	-
16.2.4.1	Fracture of tibia and fibula	-	82300 82301 82302 82310 82311 82312 82320 82321 82322 82330 82331 82332 82380 82381 82382 82390 82391 82392
16.2.4.2	Fracture of ankle	-	8240 8241 8242 8243 8244 8245 8246 8247 8248 8249
16.2.4.3	Other fracture of lower limb	-	82100 82101 82110 82111 82120 82121 82122 82123 82129 82130 82131 82132 82133 82139 8220 8221 8250 8251 82520 82521 82522 82523 82524 82525 82529 82530 82531 82532 82533 82534 82535 82539 8260 8261 8270 8271 9054
16.2.5	Other fractures	231	-
16.2.5.1	Fracture of vertebral column without mention of spinal cord injury	-	80500 80501 80502 80503 80504 80505 80506 80507 80508 80510 80511 80512 80513 80514 80515 80516 80517 80518 8052 8053 8054 8055 8056 8057 8058 8059
16.2.5.2	Fracture of ribs, closed	-	80700 80701 80702 80703 80704 80705 80706 80707 80708 80709
16.2.5.3	Fracture of pelvis	-	8080 8081 8082 8083 80841 80842 80843 80849 80851 80852 80853 80859 8088 8089
16.2.5.4	Other and unspecified fracture	-	80710 80711 80712 80713 80714 80715 80716 80717 80718 80719 8072 8073 8074 8075 8076 8090 8091 8280 8281 8290 8291 9051 9055 V540 V664 V674
16.3	Spinal cord injury	227	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
16.4 Intracranial injury	233	-
16.4.1 Concussion	-	8500 8501 8502 8503 8504 8505 8509
16.4.2 Other intracranial injury	-	80010 80011 80012 80013 80014 80015 80016 80019 80020 80021 80022 80023 80024 80025 80026 80029 80030 80031 80032 80033 80034 80035 80036 80039 80040 80041 80042 80043 80044 80045 80046 80049 80060 80061 80062 80063 80064 80065 80066 80069 80070 80071 80072 80073 80074 80075 80076 80079 80080 80081 80082 80083 80084 80085 80086 80089 80090 80091 80092 80093 80094 80095 80096 80099 80110 80111 80112 80113 80114 80115 80116 80119 80120 80121 80122 80123 80124 80125 80126 80129 80130 80131 80132 80133 80134 80135 80136 80139 80140 80141 80142 80143 80144 80145 80146 80149 80160 80161 80162 80163 80164 80165 80166 80169 80170 80171 80172 80173 80174 80175 80176 80179 80180 80181 80182 80183 80184 80185 80186 80189 80190 80191 80192 80193 80194 80195 80196 80199 80310 80311 80312 80313 80314 80315 80316 80319 80320 80321 80322 80323 80324 80325 80326 80329 80330 80331 80332 80333 80334 80335 80336 80339 80340 80341 80342 80343 80344 80345 80346 80349 80360 80361 80362 80363 80364 80365 80366 80369 80370 80371  80372 80373 80374 80375 80376 80379 80380 80381 80382 80383 80384 80385 80386 80389 80390 80391 80392 80393 80394 80395 80396 80399 80410 80411 80412 80413 80414 80415 80416 80419 80420 80421 80422 80423 80424 80425 80426 80429 80430 80431 80432 80433 80434 80435 80436 80439 80440 80441 80442 80443 80444 80445 80446 80449 80460 80461 80462 80463 80464 80465

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
		80466 80469 80470 80471 80472
		80473 80474 80475 80476 80479
		80480 80481 80482 80483 80484
		80485 80486 80489 80490 80491
		80492 80493 80494 80495 80496
		80499 85100 85101 85102 85103
		85104 85105 85106 85109 85110
		85111 85112 85113 85114 85115
		85116 85119 85120 85121 85122
		85123 85124 85125 85126 85129
		85130 85131 85132 85133 85134
		85135 85136 85139 85140 85141
		85142 85143 85144 85145 85146
		85149 85150 85151 85152 85153
		85154 85155 85156 85159 85160
		85161 85162 85163 85164 85165
		85166 85169 85170 85171 85172
		85173 85174 85175 85176 85179
		85180 85181 85182 85183 85184
		85185 85186 85189 85190 85191
		85192 85193 85194 85195 85196
		85199 85200 85201 85202 85203
		85204 85205 85206 85209 85210
		85211 85212 85213 85214 85215
		85216 85219 85220 85221 85222
		85223 85224 85225 85226 85229
		85230 85231 85232 85233 85234
		85235 85236 85239 85240 85241
		85242 85243 85244 85245 85246
		85249 85250 85251 85252 85253
		85254 85255 85256 85259 85300
		85301 85302 85303 85304 85305
		85306 85309 85310 85311 85312
		85313 85314 85315 85316 85319
		85400 85401 85402 85403 85404
		85405 85406 85409 85410 85411
		85412 85413 85414 85415 85416
		85419 9070
16.5	Crushing injury or internal injury	234 -
16.6	Open wounds	235 236 -
16.6.1	Open wounds of head, neck, and trunk	235 -
16.6.2	Open wounds of extremities	236 -
16.7	Sprains and strains	232 -
16.8	Superficial injury, contusion	239 -
16.9	Burns	240 -

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category		CCHPR code	ICD-9-CM code
16.10	Complications	237 238	-
16.10.1	Complication of device, implant or graft	237	-
16.10.1.1	Malfunction of device, implant, and graft	-	99600 99601 99602 99603 99609 9961 9962 99630 99631 99632 99639 9964 99651 99652 99653 99654 99659
16.10.1.2	Infection and inflammatory reaction due to internal prosthetic device, implant, and graft	-	9966 99660 99661 99662 99663 99664 99665 99666 99667 99669
16.10.1.3	Other complications of internal prosthetic device, implant, and graft	-	9967 99670 99671 99672 99673 99674 99675 99676 99677 99678 99679
16.10.1.4	Complications of transplants and reattached limbs	-	99680 99681 99682 99683 99684 99685 99686 99689 99690 99691 99692 99693 99694 99695 99696 99699
16.10.2	Complications of surgical procedures or medical care	238	-
16.10.2.1	Cardiac complications	-	4294 9971
16.10.2.2	Respiratory complications	-	9973
16.10.2.3	Gastrointestinal complications	-	5642 5643 5644 5696 5793 9974
16.10.2.4	Urinary complications	-	9975
16.10.2.5	Hemorrhage or hematoma complicating a procedure	-	9981
16.10.2.6	Postoperative infection	-	99762 9985 9993
16.10.2.7	Other complications of surgical and medical procedures	-	3490 3491 5190 9093 9954 9970 9972 99760 99761 99769 9979 9980 9982 9983 9984 9986 9987 9988 9989 9990 9991 9992 9994 9995 9996 9997 9998 9999
16.11	Poisoning	241 242 243	-
16.11.1	Poisoning by psychotropic agents	241	-
16.11.2	Poisoning by Other medications and drugs	242	-

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

**Appendix C**  
**Expanded diagnosis categories<sup>1</sup>**

Diagnosis category	CCHPR code	ICD-9-CM code
16.11.3 Poisoning by nonmedicinal substances	243	-
16.12 Other injuries and conditions due to external causes	244	-
17 Symptoms, signs, and ill-defined conditions and factors influencing health status	245 246 247 248 249 250 251 252 253 254 255 256 257 258	-
17.1 Symptoms, signs, and ill-defined conditions	245 246 247 248 249 250 251 252 253	-
17.1.1 Syncope	245	-
17.1.2 Fever of unknown origin	246	-
17.1.3 Lymphadenitis	247	-
17.1.4 Gangrene	248	-
17.1.5 Shock	249	-
17.1.6 Nausea and vomiting	250	-
17.1.7 Abdominal pain	251	-
17.1.8 Malaise and fatigue	252	-
17.1.9 Allergic reactions	253	-
17.2 Factors influencing health care	254 255 256 257 258	-
17.2.1 Rehabilitation care, fitting of prostheses, and adjustment of devices	254	-
17.2.2 Administrative/social admission	255	-
17.2.3 Medical examination/evaluation	256	-
17.2.4 Other aftercare	257	-
17.2.5 Other screening for suspected conditions (not mental disorders or infectious disease)	258	-
18 Residual codes, unclassified	259 260	-

<sup>1</sup> Expanded diagnosis categories can consist of groups of Clinical Classifications for Health Policy Research (CCHPR) categories, individual CCHPR categories, or individual ICD-9-CM codes. For information on constituent ICD-9-CM codes for CCHPR categories listed here, refer to Appendix A.

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
1 Operations on the nervous system	1 2 3 4 5 6 7 8 9	-
1.1 Incision and excision of CNS	1	-
1.1.1 Craniotomy and craniectomy	-	0121 0122 0123 0124 0125
1.1.2 Incision of cerebral meninges	-	0131
1.1.3 Other incision and excision of CNS	-	0101 0109 0132 0139 0141 0142 0151 0152 0153 0159
1.2 Insertion, replacement, or removal of extracranial ventricular shunt	2	-
1.3 Laminectomy, excision intervertebral disc	3	-
1.3.1 Excision of intervertebral disc	-	805 8050 8051 8059
1.3.2 Laminectomy	-	0302 0309
1.4 Diagnostic spinal tap	4	-
1.5 Insertion of catheter or spinal stimulator and injection into spinal canal	5	-
1.6 Decompression peripheral nerve	6	-
1.6.1 Release of carpal tunnel	-	0443
1.6.2 Other lysis of adhesion and decompression of peripheral nerves	-	0444 0449
1.7 Other diagnostic nervous system procedures	7	-
1.8 Other non-O.R. or closed therapeutic nervous system procedures	8	-
1.9 Other O.R. therapeutic nervous system procedures	9	-
2 Operations on the endocrine system	10 11 12	-
2.1 Thyroidectomy, partial or complete	10	-
2.2 Diagnostic endocrine procedures	11	-
2.3 Other therapeutic endocrine procedures	12	-
3 Operations on the eye	13 14 15 16 17 18 19 20 21	-
3.1 Corneal transplant	13	-
3.2 Glaucoma procedures	14	-
3.3 Lens and cataract procedures	15	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
3.3.1 Insertion of prosthetic lens	-	1370 1371 1372
3.3.2 Phacoemulsification and aspiration of cataract	-	1341
3.3.3 Other extracapsular extraction of lens	-	1359
3.3.4 Other lens and cataract procedures	-	1311 1319 132 133 1342 1343 1351 1361 1362 1363 1364 1365 1366 1369 138 139
3.4 Repair of retinal tear, detachment	16	-
3.5 Destruction of lesion of retina and choroid	17	-
3.6 Diagnostic procedures on eye	18	-
3.7 Other therapeutic procedures on eyelids, conjunctiva, cornea	19	-
3.8 Other intraocular therapeutic procedures	20	-
3.9 Other extraocular muscle and orbit therapeutic procedures	21	-
4 Operations on the ear	22 23 24 25 26	-
4.1 Tympanoplasty	22	-
4.2 Myringotomy	23	-
4.3 Mastoidectomy	24	-
4.4 Diagnostic procedures on ear	25	-
4.5 Other therapeutic ear procedures	26	-
5 Operations in the nose, mouth, and pharynx	27 28 29 30 31 32 33	-
5.1 Control of epistaxis	27	-
5.2 Plastic procedures on nose	28	-
5.3 Dental procedures	29	-
5.4 Tonsillectomy and/or adenoidectomy	30	-
5.4.1 Tonsillectomy without adenoidectomy	-	282
5.4.2 Tonsillectomy with adenoidectomy	-	283
5.4.3 Adenoidectomy without tonsillectomy	-	286
5.4.4 Control of hemorrhage after tonsillectomy or adenoidectomy	-	287

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category		CCHPR code	ICD-9-CM code
5.5	Diagnostic procedures on nose, mouth and pharynx	31	-
5.5.1	Diagnostic procedures on nasal sinuses	-	2211 2212 2219
5.5.2	Other diagnostic procedures on nose, mouth and pharynx	-	2121 2122 2129 2411 2412 2419 2501 2502 2509 2611 2612 2619 2721 2722 2723 2724 2729 2811 2819 2911 2912 2919
5.6	Other non-O.R. therapeutic procedures on nose, mouth and pharynx	32	-
5.6.1	Non-O.R. procedures on nasal sinuses	-	2200 2201 2202 222 2264
5.6.2	Other non-O.R. procedures on nasal sinuses	-	211 2130 2131 2132 2171 2191 240 2431 2432 2439 2551 2591 2592 2593 260 2691 2741 2751 2752 2791 2991 9621 9653 9721 9732
5.7	Other O.R. therapeutic procedures on nose, mouth and pharynx	33	-
5.7.1	O.R. procedures on nasal sinuses	-	2231 2239 2241 2242 2250 2251 2252 2253 2260 2261 2262 2263 2271 2279
5.7.2	Excision salivary gland	-	2630 2631 2632
5.7.3	Repair cleft lip	-	2754
5.7.4	Correction cleft palate	-	2762
5.7.5	Incision and drainage of tonsils	-	280
5.7.6	Other procedures on nose, mouth and pharynx	-	214 2161 2162 2169 2172 2199 229 242 251 252 253 254 2559 2594 2599 2621 2629 2641 2642 2649 2699 270 271 2731 2732 2742 2743 2749 2753 2755 2756 2757 2759 2761 2763 2769 2771 2772 2773 2779 2792 2799 284 285 2891 2892 2899 290 292 293 2931 2932 2933 2939 294 2951 2952 2953 2954 2959 2992 2999
6	Operations on the respiratory system	34 35 36 37 38 39 40 41 42	-
6.1	Tracheostomy, temporary and permanent	34	-
6.2	Tracheoscopy and laryngoscopy with biopsy	35	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category		CCHPR code	ICD-9-CM code
6.3	Lobectomy or pneumonectomy	36	-
6.4	Diagnostic bronchoscopy and biopsy of bronchus	37	-
6.4.1	Bronchoscopy without biopsy	-	3322 3323
6.4.2	Endoscopic biopsy of bronchus	-	3324
6.4.3	Needle biopsy of lung	-	3326
6.4.4	Endoscopic biopsy of lung	-	3327
6.5	Other diagnostic procedures on lung and bronchus	38	-
6.6	Incision of pleura, thoracentesis, chest drainage	39	-
6.6.1	Closed chest drainage	-	3404
6.6.2	Open chest drainage	-	3409
6.6.3	Thoracentesis	-	3491
6.7	Other diagnostic procedures of respiratory tract and mediastinum	40	-
6.8	Other non-O.R. therapeutic procedures on respiratory system	41	-
6.9	Other O.R. therapeutic procedures on respiratory system	42	-
7	Operations on the cardiovascular system	43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	-
7.1	Heart valve procedures	43	-
7.2	Coronary artery bypass graft (CABG)	44	-
7.2.1	Bypass of one coronary artery	-	3611
7.2.2	Bypass of two coronary arteries	-	3612
7.2.3	Bypass of three coronary arteries	-	3613
7.2.4	Bypass of four coronary arteries	-	3614
7.2.5	Other bypass of coronary arteries	-	3610 3615 3616 3619 362 363
7.3	Percutaneous transluminal coronary angioplasty (PTCA)	45	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
7.3.1 Single vessel PTCA	-	3601 3602
7.3.2 Multiple vessel PTCA	-	3605
7.4 Coronary thrombolysis	46	-
7.5 Diagnostic cardiac catheterization, coronary arteriography	47	-
7.5.1 Coronary arteriography	-	8852 8853 8854 8855 8856 8857
7.5.2 Cardiac catheterization	-	3721 3722 3723
7.6 Insertion, revision, replacement, removal of pacemaker or cardioverter/defibrillator	48	-
7.6.1 Insertion, revision, replacement, or removal of pacemaker leads	-	3770 3771 3772 3773 3774 3775 3776 3777 3778 3779
7.6.2 Insertion, revision, replacement, or removal of pacemaker device	-	3780 3781 3782 3783 3785 3786 3787 3789
7.6.3 Insertion, revision, replacement, or removal of cardioverter/defibrillator	-	3794 3795 3796 3797 3798
7.7 Other O.R. heart procedures	49	-
7.8 Extracorporeal circulation auxiliary to open heart procedures	50	-
7.9 Endarterectomy, vessel of head and neck	51	-
7.10 Aortic resection, replacement or anastomosis	52	-
7.11 Varicose vein stripping, lower limb	53	-
7.12 Other vascular catheterization, not heart	54	-
7.12.1 Arterial catheterization	-	3891
7.12.2 Umbilical vein catheterization	-	3892
7.12.3 Venous catheterization	-	3893
7.13 Peripheral vascular bypass	55	-
7.14 Other vascular bypass and shunt, not heart	56	-
7.15 Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis	57	-
7.16 Hemodialysis	58	-
7.17 Other O.R. procedures on vessels of head and neck	59	-
7.18 Embolectomy and endarterectomy of lower	60	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
limbs		
7.19 Other O.R. procedures on vessels other than head and neck	61	-
7.19.1 Interrupt vena cava	-	387
7.19.2 Other O.R. procedures on blood vessels	-	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 3880 3883 3884 3885 3886 3887 3888 3889 3930 3931 3932 3941 3949 3951 3952 3953 3954 3955 3956 3957 3958 3959 397 398 3991 3992 3994 3998 3999
7.20 Other diagnostic cardiovascular procedures	62	-
7.21 Other non-O.R. therapeutic cardiovascular procedures	63	-
8 Operations on the hemic and lymphatic system	64 65 66 67	-
8.1 Bone marrow transplant	64	-
8.2 Bone marrow biopsy	65	-
8.3 Procedures on spleen	66	-
8.4 Other therapeutic procedures, hemic and lymphatic system	67	-
8.4.1 Biopsy of lymphatic structure	-	4011
8.4.2 Simple excision of lymphatic structure	-	4021 4022 4023 4024 4029
8.4.3 Regional lymph node excision	-	403
8.4.4 Radical excision lymph nodes	-	4040 4041 4042 4050 4051 4052 4053 4054 4059
8.4.5 Other hemic and lymphatic procedures	-	400 4019 4061 4062 4063 4064 4069 409 4132 4133 4138 4139 4191 4192 4198
9 Operations on the digestive system	68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
	96 97 98 99	
9.1 Therapeutic procedures on the esophagus	68 69	-
9.1.1 Injection or ligation of esophageal varices	68	-
9.1.2 Esophageal dilatation	69	-
9.2 Upper gastrointestinal endoscopy, biopsy	70	-
9.2.1 Esophagoscopy	-	4223 4224
9.2.2 Gastroscopy	-	4413 4414
9.2.3 Esophagogastroduodenoscopy (EGD) without biopsy	-	4513
9.2.4 Esophagogastroduodenoscopy (EGD) with biopsy	-	4516
9.2.5 Endoscopic biopsy small intestine	-	4514
9.3 Gastrostomy, temporary and permanent	71	-
9.4 Colostomy, temporary and permanent	72	-
9.5 Ileostomy and other enterostomy	73	-
9.6 Gastrectomy, partial and total	74	-
9.7 Small bowel resection	75	-
9.8 Colonoscopy and biopsy	76	-
9.8.1 Closed endoscopic biopsy of large intestine	-	4525
9.8.2 Other endoscopy of large intestine	-	4523 4524
9.9 Proctoscopy and anorectal biopsy	77	-
9.10 Colorectal resection	78	-
9.10.1 Right hemicolectomy	-	4573
9.10.2 Left hemicolectomy	-	4575
9.10.3 Sigmoidectomy	-	4576
9.10.4 Resection of rectum	-	4841 4849 485 4861 4862 4863 4864 4865 4866 4869
9.10.5 Other colorectal resections	-	4571 4572 4574 4579 458
9.11 Local excision of large intestine lesion (not endoscopic)	79	-
9.12 Appendectomy	80	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category		CCHPR code	ICD-9-CM code
9.13	Hemorrhoid procedures	81	-
9.14	Endoscopic retrograde cannulation of pancreas (ERCP)	82	-
9.15	Biopsy of liver	83	-
9.16	Cholecystectomy and common duct exploration	84	-
9.16.1	Open cholecystectomy	-	5121 5122
9.16.2	Laparoscopic cholecystectomy	-	5123
9.16.3	Incision of bile duct	-	5141 5142 5143 5149 5151 5159
9.17	Inguinal and femoral hernia repair	85	-
9.17.1	Unilateral repair inguinal hernia	-	5300 5301 5302 5303 5304 5305
9.17.2	Bilateral repair inguinal hernia	-	5310 5311 5312 5313 5314 5315 5316 5317
9.17.3	Femoral hernia repair	-	5321 5329 5331 5339
9.18	Other hernia repair	86	-
9.18.1	Umbilical hernia repair	-	5341 5349
9.18.2	Incisional hernia repair	-	5351 5361
9.18.3	Other abdominal wall hernia repair	-	5359 5369
9.18.4	Other hernia repair	-	537 5380 5381 5382 539
9.19	Laparoscopy	87	-
9.20	Abdominal paracentesis	88	-
9.21	Exploratory laparotomy	89	-
9.22	Excision, lysis peritoneal adhesions	90	-
9.23	Peritoneal dialysis	91	-
9.24	Other bowel diagnostic procedures	92	-
9.25	Other non-O.R. upper GI therapeutic procedures	93	-
9.26	Other O.R. upper GI therapeutic procedures	94	-
9.27	Other non-O.R. lower GI therapeutic procedures	95	-
9.28	Other O.R. lower GI therapeutic procedures	96	-
9.28.1	Closure of stoma of large intestine	-	4652
9.28.2	Local excision of rectal lesion	-	4835

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
9.28.3 Incision of perirectal tissue	-	4881
9.28.4 Incision of perianal abscess	-	4901
9.28.5 Incision/excision of anal fistula	-	4911 4912
9.28.6 Other lower GI 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 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 4871 4872 4873 4874 4875 4876 4879 4882 4891 4892 4893 4899 4902 4904 493 4939 4951 4952 4959 496 4971 4972 4973 4974 4979 4991 4992 4993 4994 4995 4999
9.29 Other gastrointestinal diagnostic procedures	97	-
9.30 Other non-O.R. gastrointestinal therapeutic procedures	98	-
9.31 Other O.R. gastrointestinal therapeutic procedures	99	-
9.31.1 Radical pancreaticoduodenectomy	-	527
9.31.2 Incision abdominal wall	-	540
9.31.3 Excision or destruction of peritoneal tissue	-	544
9.31.4 Creation of cutaneoperitoneal fistula	-	5493
9.31.5 Other 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 5292 5295 5296 5299 5412 5419 543 5461 5462 5463 5464 5471 5472 5473 5474 5475 5492 5494 5495
10 Operations on the urinary system	100 101 102 103 104 105 106 107 108 109 110 111	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
	112	
10.1 Cystoscopy and other transurethral procedures	100 101 102	-
10.1.1 Endoscopy and endoscopic biopsy of the urinary tract	100	-
10.1.2 Transurethral excision, drainage, or removal urinary obstruction	101	-
10.1.3 Ureteral catheterization	102	-
10.2 Nephrotomy and nephrostomy	103	-
10.3 Nephrectomy, partial or complete	104	-
10.4 Kidney transplant	105	-
10.5 Genitourinary incontinence procedures	106	-
10.6 Extracorporeal lithotripsy, urinary	107	-
10.7 Indwelling catheter	108	-
10.8 Procedures on the urethra	109	-
10.9 Other diagnostic procedures of urinary tract	110	-
10.10 Other non-O.R. therapeutic procedures of urinary tract	111	-
10.11 Other O.R. therapeutic procedures of urinary tract	112	-
11 Operations on the male genital organs	113 114 115 116 117 118	-
11.1 Transurethral resection of prostate (TURP)	113	-
11.2 Open prostatectomy	114	-
11.3 Circumcision	115	-
11.4 Diagnostic procedures, male genital	116	-
11.5 Other non-O.R. therapeutic procedures, male genital	117	-
11.6 Other O.R. therapeutic procedures, male genital	118	-
11.6.1 Unilateral orchiectomy	-	623
11.6.2 Bilateral orchiectomy	-	6241
11.6.3 Orchiopexy	-	625
11.6.4 Insert or replace penile prosthesis	-	6495 6497

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
11.6.5 Other male genital procedures	-	600 6072 6073 6079 6081 6082 6093 6094 6099 612 6142 6149 6192 6199 620 622 6242 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 6496 6498 6499
12 Operations on the female genital organs	119 120 121 122 123 124 125 126 127 128 129 130 131 132	-
12.1 Oophorectomy, unilateral and bilateral	119	-
12.2 Other operations on ovary	120	-
12.3 Ligation of fallopian tubes	121	-
12.4 Removal ectopic pregnancy	122	-
12.5 Other operations on fallopian tubes	123	-
12.6 Hysterectomy, abdominal and vaginal	124	-
12.6.1 Total abdominal hysterectomy	-	684
12.6.2 Vaginal hysterectomy	-	685
12.6.3 Other hysterectomy	-	683 686 687 689
12.7 Other excision of cervix and uterus	125	-
12.8 Abortion (termination of pregnancy)	126	-
12.9 Dilatation and curettage (D&C), aspiration after delivery or abortion	127	-
12.10 Diagnostic dilatation and curettage (D&C)	128	-
12.11 Repair of cystocele and rectocele, obliteration of vaginal vault	129	-
12.12 Other diagnostic procedures female organs	130	-
12.13 Other non-O.R. therapeutic procedures, female organs	131	-
12.14 Other O.R. therapeutic procedures, female organs	132	-
13 Obstetrical procedures	133 134 135 136 137 138 139 140 141	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category		CCHPR code	ICD-9-CM code
13.1	Episiotomy	133	-
13.2	Cesarean section	134	-
13.3	Forceps, vacuum, and breech delivery	135	-
13.3.1	Low forceps delivery with episiotomy	-	721
13.3.2	Vacuum extraction with episiotomy	-	7271
13.3.3	Other vacuum extraction	-	7279
13.3.4	Other forceps or breech delivery	-	720 7221 7229 7231 7239 724 7251 7252 7253 7254 726 728 729 733
13.4	Artificial rupture of membranes to assist delivery	136	-
13.5	Other procedures to assist delivery	137	-
13.5.1	Induction of labor by artificial rupture of membranes	-	7301
13.5.2	Medical induction of labor	-	734
13.5.3	Other manually assisted labor	-	7359
13.5.4	Other delivery procedures	-	731 7321 7322 7351 738 7391 7392 7393 7394 7399
13.6	Diagnostic amniocentesis	138	-
13.7	Fetal monitoring	139	-
13.8	Repair of current obstetric laceration	140	-
13.8.1	Repair of obstetric laceration of uterus or cervix	-	7550 7551 7552
13.8.2	Repair of obstetric laceration of bladder or urethra	-	7561
13.8.3	Repair of obstetric laceration of rectum or sphincter	-	7562
13.8.4	Repair of other obstetric laceration	-	7569
13.9	Other therapeutic obstetrical procedures	141	-
14	Operations on the musculoskeletal system	142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
14.1 Partial excision bone	142	-
14.2 Bunionectomy or repair of toe deformities	143	-
14.3 Treatment of fracture or dislocation	144 145 146 147 148	-
14.3.1 Treatment, facial fracture or dislocation	144	-
14.3.2 Treatment, fracture or dislocation of radius and ulna	145	-
14.3.3 Treatment, fracture or dislocation of hip and femur	146	-
14.3.4 Treatment, fracture or dislocation of lower extremity (not hip/femur)	147	-
14.3.5 Other fracture and dislocation procedure	148	-
14.4 Arthroscopy	149	-
14.4.1 Arthroscopy of knee	-	8026
14.4.2 Other arthroscopy	-	8020 8021 8022 8023 8024 8025 8027 8028 8029
14.5 Division of joint capsule, ligament or cartilage	150	-
14.6 Excision of semilunar cartilage of knee	151	-
14.7 Arthroplasty	152 153 154	-
14.7.1 Arthroplasty knee	152	-
14.7.2 Hip replacement, total and partial	153	-
14.7.3 Arthroplasty other than hip or knee	154	-
14.8 Arthrocentesis	155	-
14.9 Injections and aspirations of muscles, tendons, bursa, joints and soft tissue	156	-
14.10 Amputation of lower extremity	157	-
14.10.1 Amputation of toe	-	8411
14.10.2 Amputation through foot	-	8412
14.10.3 Below knee amputation	-	8415
14.10.4 Above knee amputation	-	8417
14.10.5 Other lower extremity amputation	-	8410 8413 8414 8416 8418 8419
14.11 Spinal fusion	158	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
14.12 Other diagnostic procedures on musculoskeletal system	159	-
14.13 Other therapeutic procedures on muscles and tendons	160	-
14.13.1 Rotator cuff repair	-	8363
14.13.2 Other suture of muscle, tendon and fascia	-	8361 8362 8364 8365
14.13.3 Other muscle and tendon procedures	-	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 8371 8372 8373 8374 8375 8376 8377 8379 8381 8382 8383 8384 8385 8386 8387 8388 8389 8391 8392 8393 8399
14.14 Other O.R. therapeutic procedures on bone	161	-
14.15 Other O.R. therapeutic procedures on joints	162	-
14.16 Other non-O.R. therapeutic procedures on musculoskeletal system	163	-
14.17 Other O.R. therapeutic procedures on musculoskeletal system	164	-
15 Operations on the integumentary system	165 166 167 168 169 170 171 172 173 174 175	-
15.1 Procedures on the breast	165 166 167	-
15.1.1 Breast biopsy and other diagnostic procedures on breast	165	-
15.1.2 Lumpectomy, quadrantectomy of breast	166	-
15.1.3 Mastectomy	167	-
15.2 Incision and drainage, skin and subcutaneous tissue	168	-
15.3 Debridement of wound, infection or burn	169	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
15.4	Excision of skin lesion	170 -
15.5	Suture of skin and subcutaneous tissue	171 -
15.6	Skin graft	172 -
15.7	Other diagnostic procedures on skin and subcutaneous tissue	173 -
15.8	Other non-O.R. therapeutic procedures on skin and breast	174 -
15.8.1	Aspiration of skin and subcutaneous tissue	- 8601
15.8.2	Insertion of totally implantable vascular access device	- 8607
15.8.3	Debridement of nail	- 8627
15.8.4	Other skin and breast procedures, non-O.R.	- 850 8551 8552 8581 8591 8592 8602 8603 8605 8609 8623 8624 8626 8692 8699
15.9	Other O.R. therapeutic procedures on skin and breast	175 -
15.9.1	Bilateral reduction mammoplasty	- 8532
15.9.2	Excision pilonidal cyst or sinus	- 8621
15.9.3	Other skin and breast procedures, O.R.	- 8524 8525 8531 8533 8534 8535 8536 8550 8553 8554 856 857 8582 8583 8584 8585 8586 8587 8589 8593 8594 8595 8596 8599 8606 8625 8681 8682 8683 8684 8685 8686 8689 8691 8693
16	Miscellaneous diagnostic and therapeutic procedures	176 177 178 - 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
	227 228 229 230 231	
16.1 Other organ transplantation	176	-
16.2 Computerized axial tomography (CT) scan	177 178 179 180	-
16.2.1 Computerized axial tomography (CT) scan head	177	-
16.2.2 CT scan chest	178	-
16.2.3 CT scan abdomen	179	-
16.2.4 Other CT scan	180	-
16.3 Myelogram	181	-
16.4 Mammography	182	-
16.5 Routine chest x-ray	183	-
16.6 Intraoperative cholangiogram	184	-
16.7 Upper gastrointestinal x-ray	185	-
16.8 Lower gastrointestinal x-ray	186	-
16.9 Intravenous pyelogram	187	-
16.10 Cerebral arteriogram	188	-
16.11 Contrast aortogram	189	-
16.12 Contrast arteriogram of femoral and lower extremity arteries	190	-
16.13 Arterio- or venogram (not heart and head)	191	-
16.14 Diagnostic ultrasound	192 193 194 195 196 197	-
16.14.1 Diagnostic ultrasound of head and neck	192	-
16.14.2 Diagnostic ultrasound of heart (echocardiogram)	193	-
16.14.3 Diagnostic ultrasound of gastrointestinal tract	194	-
16.14.4 Diagnostic ultrasound of urinary tract	195	-
16.14.5 Diagnostic ultrasound of abdomen or retroperitoneum	196	-
16.14.6 Other diagnostic ultrasound	197	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
16.15 Magnetic resonance imaging	198	-
16.16 Electroencephalogram (EEG)	199	-
16.17 Nonoperative urinary system measurements	200	-
16.18 Cardiac stress tests	201	-
16.19 Electrocardiogram	202	-
16.20 Electrographic cardiac monitoring	203	-
16.21 Swan-Ganz catheterization for monitoring	204	-
16.22 Arterial blood gases	205	-
16.23 Microscopic examination (bacterial smear, culture, toxicology)	206	-
16.24 Radioisotope scan	207 208 209 210	-
16.24.1 Radioisotope bone scan	207	-
16.24.2 Radioisotope pulmonary scan	208	-
16.24.3 Radioisotope scan and function studies	209	-
16.24.4 Other radioisotope scan	210	-
16.25 Therapeutic radiology	211	-
16.26 Physical therapy	212 213 214 215	-
16.26.1 Diagnostic physical therapy	212	-
16.26.2 Physical therapy exercises, manipulation, and other procedures	213	-
16.26.3 Traction, splints, and other wound care	214	-
16.26.4 Other physical therapy and rehabilitation	215	-
16.27 Respiratory intubation and mechanical ventilation	216	-
16.27.1 Endotracheal intubation	-	9604
16.27.2 Continuous mechanical ventilation less than 96 hours	-	9671
16.27.3 Continuous mechanical ventilation more than 96 hours	-	9672
16.27.4 Other respiratory intubation and	-	9390 9392 9601 9602 9603 9605

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
mechanical ventilation		9670
16.28 Other respiratory therapy	217	-
16.28.1 Respiratory medication administered by nebulizer	-	9394
16.28.2 Oxygen therapy	-	9396
16.28.3 Other respiratory treatments	-	9391 9399
16.29 Psychological and psychiatric evaluation and therapy	218	-
16.29.1 Psychiatric drug therapy	-	9421 9422 9423 9424 9425
16.29.2 Electroconvulsive therapy	-	9427
16.29.3 Individual psychotherapy	-	9431 9432 9433 9434 9435 9436 9437 9438 9439
16.29.4 Other psychological and psychiatric evaluation and therapy	-	9401 9402 9403 9408 9409 9411 9412 9413 9419 9426 9429 9441 9442 9443 9444 9445 9446 9449 9451 9452 9453 9454 9455 9459
16.30 Alcohol and drug rehabilitation	219	-
16.30.1 Alcohol rehabilitation	-	9461
16.30.2 Alcohol detoxification	-	9462
16.30.3 Alcohol rehabilitation and detoxification	-	9463
16.30.4 Drug rehabilitation	-	9464
16.30.5 Drug detoxification	-	9465
16.30.6 Drug rehabilitation and detoxification	-	9466
16.30.7 Alcohol and drug rehabilitation	-	9467
16.30.8 Alcohol and drug detoxification	-	9468
16.30.9 Alcohol and drug rehabilitation and detoxification	-	9469
16.31 Ophthalmologic and otologic diagnosis and treatment	220	-
16.32 Naso-gastric tube	221	-
16.33 Blood transfusion	222	-
16.34 Enteral and parenteral nutrition	223	-
16.35 Cancer chemotherapy	224	-

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

**Appendix D**  
**Expanded procedure categories<sup>1</sup>**

Procedure category	CCHPR code	ICD-9-CM code
16.36 Conversion of cardiac rhythm	225	-
16.37 Other diagnostic radiology and related techniques	226	-
16.38 Other diagnostic procedures (interview, evaluation, consultation)	227	-
16.39 Prophylactic vaccinations and inoculations	228	-
16.40 Nonoperative removal of foreign body	229	-
16.41 Extracorporeal shock wave lithotripsy, other than urinary	230	-
16.42 Other therapeutic procedures	231	-
16.42.1 Inject antibiotic	-	9921
16.42.2 Other phototherapy (newborn)	-	9983
16.42.3 Other therapies	-	3898 3899 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 9922 9923 9924 9926 9927 9929 9971 9972 9973 9974 9979 9981 9982 9984 9985 9986 9988 9991 9992 9998 9999

<sup>1</sup> Expanded procedure categories can consist of groups of Clinical Classifications for Health Policy Research (CCHPR) categories, individual CCHPR categories, or individual ICD-9-CM codes. For information on constituent ICD-9-CM codes for CCHPR categories listed here, refer to Appendix B.

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