

Appendix B
Clinical Classifications for Health Policy Research, Version 2—PROCEDURES
(with all coding changes valid from January 1980 through September 1998¹)

	Procedure category ICD-9-CM codes											
1	Incision and excision of CNS											
	0101	0109	0121	0122	0123	0124	0125	0131	0132	0139	0141	0142
	0151	0152	0153	0159								
2	Insertion, replacement, or removal of extracranial ventricular shunt											
	0231	0232	0233	0234	0235	0239	0242	0243				
3	Laminectomy, excision intervertebral disc											
	0302	0309	805	8050	8051	8059						
4	Diagnostic spinal tap											
	0331											
5	Insertion of catheter or spinal stimulator and injection into spinal canal											
	038	0390	0391	0392	0393	0394						
6	Decompression peripheral nerve											
	0443	0444	0449									
7	Other diagnostic nervous system procedures											
	0111	0112	0113	0114	0115	0118	0119	0332	0339	0411	0412	0419
	0511	0519										
8	Other non-OR or closed therapeutic nervous system procedures											
	0102	0241	0295	0321	0395	0396	0480	0481	0489	0531	0532	0539
9	Other OR therapeutic nervous system procedures											
	016	0201	0202	0203	0204	0205	0206	0207	0211	0212	0213	0214

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12	Other therapeutic endocrine procedures											
	0601	0602	0609	067	0681	0689	0691	0692	0693	0694	0695	0698
	0699	0721	0722	0729	073	0741	0742	0743	0744	0745	0749	0752
	0753	0754	0759	0761	0762	0763	0764	0765	0768	0769	0772	0779
	0780	0781	0782	0792	0793	0794	0799					
13	Corneal transplant											
	1160	1161	1162	1163	1164	1169						
14	Glaucoma procedures											
	1251	1252	1253	1254	1255	1259	1261	1262	1263	1264	1265	1266
	1269	1271	1272	1273	1274	1279						
15	Lens and cataract procedures											
	1311	1319	132	133	1341	1342	1343	1351	1359	1361	1362	1363
	1364	1365	1366	1369	1370	1371	1372	138	139			
16	Repair of retinal tear, detachment											
	1431	1432	1433	1434	1435	1439	1441	1449	1451	1452	1453	1454
	1455	1459										
17	Destruction of lesion of retina and choroid											
	1421	1422	1423	1424	1425	1426	1427	1429				
18	Diagnostic procedures on eye											
	0811	0819	0911	0912	0919	1021	1029	1121	1122	1129	1221	1222
	1229	1411	1419	1501	1509	1621	1622	1623	1629			
19	Other therapeutic procedures on eyelids, conjunctiva, cornea											

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		1239	1240	1241	1242	1243	1244	1281	1282	1283	1284	1285	1286
		1287	1288	1289	1291	1292	1293	1297	1298	1299	1300	1301	1302
		1400	1401	1402	146	1471	1472	1473	1474	1475	1479	149	
21	Other extraocular muscle and orbit therapeutic procedures												
		1511	1512	1513	1519	1521	1522	1529	153	154	155	156	157
		159	1601	1602	1609	161	1631	1639	1641	1642	1649	1651	1652
		1659	1661	1662	1663	1664	1665	1666	1669	1671	1672	1681	1682
		1689	1691	1692	1693	1698	1699						
22	Tympanoplasty												
		194	1952	1953	1954	1955	196						
23	Myringotomy												
		2001	2009										
24	Mastoidectomy												
		2041	2042	2049									
25	Diagnostic procedures on ear												
		1811	1812	1819	2031	2032	2039						
26	Other therapeutic ear procedures												
		1801	1802	1809	1821	1829	1831	1839	184	185	186	1871	1872
		1879	189	190	1911	1919	1921	1929	193	199	201	2021	2022
		2023	2051	2059	2061	2062	2071	2072	2079	208	2091	2092	2093
		2094	2095	2096	2097	2098	2099	9611	9652				
27	Control of epistaxis												
		2100	2101	2102	2103	2104	2105	2106	2107	2109			

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31	Diagnostic procedures on nose, mouth and pharynx											
	2121	2122	2129	2211	2212	2219	2411	2412	2419	2501	2502	2509
	2611	2612	2619	2721	2722	2723	2724	2729	2811	2819	2911	2912
	2919											
32	Other non-OR therapeutic procedures on nose, mouth and pharynx											
	211	2130	2131	2132	2171	2191	2200	2201	2202	222	2264	240
	2431	2432	2439	2551	2591	2592	2593	260	2691	2741	2751	2752
	2791	2991	9621	9653	9721	9732						
33	Other OR therapeutic procedures on nose, mouth and pharynx											
	214	2161	2162	2169	2172	2199	2231	2239	2241	2242	2250	2251
	2252	2253	2260	2261	2262	2263	2271	2279	229	242	251	252
	253	254	2559	2594	2599	2621	2629	2630	2631	2632	2641	2642
	2649	2699	270	271	2731	2732	2742	2743	2749	2753	2754	2755
	2756	2757	2759	2761	2762	2763	2769	2771	2772	2773	2779	2792
	2799	280	284	285	2891	2892	2899	290	292	293	2931	2932
	2933	2939	294	2951	2952	2953	2954	2959	2992	2999		
34	Tracheostomy, temporary and permanent											
	311	3121	3129									
35	Tracheoscopy and laryngoscopy with biopsy											
	3142	3143	3144									
36	Lobectomy or pneumonectomy											
	3221	3222	3229	323	324	325						
37	Diagnostic bronchoscopy and biopsy of bronchus											
	3322	3323	3324	3326	3327							

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	310	3193	3194	3195	3201	3228	3331	3332	3333	3391	3471	3472
	3492	9655	9656	9723	9737	9741	9742	9743	9749			
42	Other OR therapeutic procedures on respiratory system											
	3001	3009	301	3021	3022	3029	303	304	313	315	3161	3162
	3163	3164	3169	3171	3172	3173	3174	3175	3179	3191	3192	3198
	3199	320	3209	321	326	329	330	331	3334	3339	3341	3342
	3343	3348	3349	3392	3393	3398	3399	3401	3403	3405	341	343
	344	3451	3459	346	3473	3474	3479	3481	3482	3483	3484	3485
	3489	3493	3499									
43	Heart valve procedures											
	3500	3501	3502	3503	3504	3510	3511	3512	3513	3514	3520	3521
	3522	3523	3524	3525	3526	3527	3528	3596	3599			
44	Coronary artery bypass graft (CABG)											
	3610	3611	3612	3613	3614	3615	3616	3617	3619	362	363	
45	Percutaneous transluminal coronary angioplasty (PTCA)											
	3601	3602	3605									
46	Coronary thrombolysis											
	3604											
47	Diagnostic cardiac catheterization, coronary arteriography											
	3721	3722	3723	8852	8853	8854	8855	8856	8857			
48	Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator											
	3770	3771	3772	3773	3774	3775	3776	3777	3778	3779	3780	3781
	3782	3783	3785	3786	3787	3789	3794	3795	3796	3797	3798	

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	3812												
52	Aortic resection, replacement or anastomosis												
	3834	3844	3864										
53	Varicose vein stripping, lower limb												
	3859												
54	Other vascular catheterization, not heart												
	3891	3892	3893										
55	Peripheral vascular bypass												
	3925	3929											
56	Other vascular bypass and shunt, not heart												
	390	391	3921	3922	3923	3924	3926	3928					
57	Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis												
	3927	3942	3943	3993									
58	Hemodialysis												
	3995												
59	Other OR procedures on vessels of head and neck												
	3801	3802	3811	3831	3832	3841	3842	3851	3852	3861	3862	3881	3882
60	Embolectomy and endarterectomy of lower limbs												

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		Procedure category ICD-9-CM codes											
63	Other non-OR therapeutic cardiovascular procedures	3606	370	3792	3793	3894	3895	3996	3997				
64	Bone marrow transplant	410	4100	4101	4102	4103	4104	4105	4106				
65	Bone marrow biopsy	4131											
66	Procedures on spleen	411	412	4141	4142	4143	415	4193	4195	4199			
67	Other therapeutic procedures, hemic and lymphatic system	400	4011	4019	4021	4022	4023	4024	4029	403	4040	4041	4042
		4050	4051	4052	4053	4054	4059	4061	4062	4063	4064	4069	409
		4132	4133	4138	4139	4191	4192	4198					
68	Injection or ligation of esophageal varices	4291											
69	Esophageal dilatation	4292											
70	Upper gastrointestinal endoscopy, biopsy	4223	4224	4413	4414	4513	4514	4516					
71	Gastrostomy, temporary and permanent	431	4311	4319	432								

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	Procedure category ICD-9-CM codes											
	4561	4562	4563									
76	Colonoscopy and biopsy											
	4523	4524	4525									
77	Proctoscopy and anorectal biopsy											
	4823	4824	4826	4921	4922	4923						
78	Colorectal resection											
	4571	4572	4573	4574	4575	4576	4579	458	4841	4849	485	4861
	4862	4863	4864	4865	4866	4869						
79	Local excision of large intestine lesion (not endoscopic)											
	4541											
80	Appendectomy											
	470	4701	4709	471	4711	4719						
81	Hemorrhoid procedures											
	4941	4942	4943	4944	4945	4946	4947	4949				
82	Endoscopic retrograde cannulation of pancreas (ERCP)											
	5110	5111	5197	5213	5291							
83	Biopsy of liver											
	5011	5012										
84	Cholecystectomy and common duct exploration											

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88	Abdominal paracentesis												
	5491												
89	Exploratory laparotomy												
	5411												
90	Excision, lysis peritoneal adhesions												
	545	5451	5459										
91	Peritoneal dialysis												
	5498												
92	Other bowel diagnostic procedures												
	4221	4222	4225	4229	4411	4412	4415	4419	4511	4512	4515	4519	
	4521	4522	4526	4527	4528	4529	4821	4822	4825	4829	4929	5425	
93	Other non-OR upper GI therapeutic procedures												
	4233	4281	4341	4422	4443	4444	4449	4462	4493	4494	9606	9631	
	9632	9633	9634	9635	9701	9702	9751						
94	Other OR upper GI therapeutic procedures												
	4201	4209	4210	4211	4212	4219	4231	4232	4239	4240	4241	4242	
	4251	4252	4253	4254	4255	4256	4258	4259	4261	4262	4263	4264	
	4265	4266	4268	4269	427	4282	4283	4284	4285	4286	4287	4289	
	4299	430	433	4342	4349	4400	4401	4402	4403	442	4421	4429	
	4431	4439	4440	4441	4442	445	4461	4463	4464	4465	4466	4469	
	4491	4492	4499										
95	Other non-OR lower GI therapeutic procedures												

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97	Other gastrointestinal diagnostic procedures											
	5019	5112	5113	5114	5115	5119	5211	5212	5214	5219	5422	5423
	5424	5429										
98	Other non-OR gastrointestinal therapeutic procedures											
	5091	5092	5093	5094	5099	5101	5164	5184	5185	5186	5187	5188
	5196	5198	5221	5293	5294	5297	5298	5496	5497	5499	9608	9624
	9627	9628	9636	9641	9642	9643	9705	9754	9755	9756	9759	9782
	9786											
99	Other OR gastrointestinal therapeutic procedures											
	500	5021	5022	5029	503	504	5061	5069	5102	5103	5104	5131
	5132	5133	5134	5135	5136	5137	5139	5161	5162	5163	5169	5171
	5172	5179	5181	5182	5183	5189	5191	5192	5193	5194	5195	5199
	5201	5209	522	5222	523	524	5251	5252	5253	5259	526	527
	5292	5295	5296	5299	540	5412	5419	543	544	5461	5462	5463
	5464	5471	5472	5473	5474	5475	5492	5493	5494	5495		
100	Endoscopy and endoscopic biopsy of the urinary tract											
	5521	5522	5631	5633	5732	5733	5822	5823				
101	Transurethral excision, drainage, or removal of urinary obstruction											
	560	570	5741	5749								
102	Ureteral catheterization											
	598											
103	Nephrotomy and nephrostomy											
	5501	5502	5503	5504	5511	5512						

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108	Indwelling catheter											
	5794											
109	Procedures on the urethra											
	580	581	583	5831	5839	5841	5842	5843	5844	5845	5846	5847
	5849	585	586	5891	5892	5893	5899					
110	Other diagnostic procedures of urinary tract											
	5523	5524	5529	5632	5634	5635	5639	5731	5734	5739	5821	5824
	5829	5921	5929									
111	Other non-OR therapeutic procedures of urinary tract											
	5592	5593	5594	5595	5596	5691	5711	5717	5792	5795	5993	5994
	5999	9625	9645	9646	9647	9648	9649	9761	9762	9763	9764	9765
	9769											
112	Other OR therapeutic procedures of urinary tract											
	5531	5539	557	5581	5582	5583	5584	5585	5586	5587	5589	5591
	5597	5598	5599	561	562	5640	5641	5642	5651	5652	5661	5662
	5671	5672	5673	5674	5675	5679	5681	5682	5683	5684	5685	5686
	5689	5692	5693	5694	5695	5699	5712	5718	5719	5721	5722	5751
	5759	576	5771	5779	5781	5782	5783	5784	5785	5786	5787	5788
	5789	5791	5793	5796	5797	5798	5799	5900	5901	5902	5903	5909
	5911	5912	5919	5991	5992							
113	Transurethral resection of prostate (TURP)											
	602	6021	6029									
114	Open prostatectomy											
	603	604	605	6061	6062	6069						

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		Procedure category ICD-9-CM codes											
129	Repair of cystocele and rectocele, obliteration of vaginal vault												
		7050	7051	7052	708								
130	Other diagnostic procedures, female organs												
		6511	6512	6513	6514	6519	6611	6619	6711	6712	6719	6811	6812
		6813	6814	6815	6816	6819	7021	7022	7023	7024	7029	7111	7119
131	Other non-OR therapeutic procedures, female organs												
		670	6959	696	697	6991	6992	6993	6994	6996	700	7011	7121
		9614	9615	9616	9617	9618	9644	9724	9725	9726	9771	9772	9773
		9774	9775										
132	Other OR therapeutic procedures, female organs												
		660	6601	6602	675	6761	6762	6769	680	688	6921	6922	6923
		6929	693	6941	6942	6949	6995	6997	6998	6999	7012	7013	7014
		7031	7032	7033	704	7061	7062	7071	7072	7073	7074	7075	7076
		7077	7079	7091	7092	7101	7109	7122	7123	7124	7129	713	714
		715	7161	7162	7171	7172	7179	718	719				
133	Episiotomy												
		736											
134	Cesarean section												
		740	741	742	744	7499							
135	Forceps, vacuum, and breech delivery												
		720	721	7221	7229	7231	7239	724	7251	7252	7253	7254	726
		7271	7279	728	729	733							

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		Procedure category ICD-9-CM codes											
		8342	8343	8344	8345	8349	835	8361	8362	8363	8364	8365	8371
		8372	8373	8374	8375	8376	8377	8379	8381	8382	8383	8384	8385
		8386	8387	8388	8389	8391	8392	8393	8399				
161	Other OR therapeutic procedures on bone												
		7700	7701	7702	7703	7704	7705	7706	7707	7708	7709	7710	7711
		7712	7713	7714	7715	7716	7717	7718	7719	7720	7721	7722	7723
		7724	7725	7726	7727	7728	7729	7730	7731	7732	7733	7734	7735
		7736	7737	7738	7739	7790	7791	7792	7793	7794	7795	7796	7797
		7798	7799	7800	7801	7802	7803	7804	7805	7806	7807	7808	7809
		7810	7811	7812	7813	7814	7815	7816	7817	7818	7819	7820	7822
		7823	7824	7825	7827	7828	7829	7830	7831	7832	7833	7834	7835
		7837	7838	7839	7840	7841	7842	7843	7844	7845	7846	7847	7848
		7849	7870	7871	7872	7873	7874	7875	7876	7877	7878	7879	7890
		7891	7892	7893	7894	7895	7896	7897	7898	7899			
162	Other OR therapeutic procedures on joints												
		8000	8001	8002	8003	8004	8005	8006	8007	8008	8009	8010	8011
		8012	8013	8014	8015	8016	8017	8018	8019	8052	8070	8071	8072
		8073	8074	8075	8076	8077	8078	8079	8080	8081	8082	8083	8084
		8085	8086	8087	8088	8089	8090	8091	8092	8093	8094	8095	8096
		8097	8098	8099	8111	8112	8113	8114	8115	8116	8117	8118	8120
		8121	8122	8123	8124	8125	8126	8127	8128	8129	8140	8193	8194
		8195	8196	8198	8199								
163	Other non-OR therapeutic procedures on musculoskeletal system												
		7695	7696	8192	8441	8442	8443	8445	8446	8447	9711	9712	9713
		9714	9736	9788									
164	Other OR therapeutic procedures on musculoskeletal system												
		7600	7641	7642	7643	7644	7645	7646	765	7661	7662	7663	7664

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	8801
180	Other CT scan
	8771 8838
181	Myelogram
	8721
182	Mammography
	8736 8737
183	Routine chest X-ray
	8744
184	Intraoperative cholangiogram
	8753
185	Upper gastrointestinal X-ray
	8761 8762
186	Lower gastrointestinal X-ray
	8764
187	Intravenous pyelogram
	8773
188	Cerebral arteriogram

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192	Diagnostic ultrasound of head and neck							
		8871						
193	Diagnostic ultrasound of heart (echocardiogram)							
		8872						
194	Diagnostic ultrasound of gastrointestinal tract							
		8874						
195	Diagnostic ultrasound of urinary tract							
		8875						
196	Diagnostic ultrasound of abdomen or retroperitoneum							
		8876						
197	Other diagnostic ultrasound							
		8873	8877	8878	8879			
198	Magnetic resonance imaging							
		8891	8892	8893	8894	8895	8897	8899
199	Electroencephalogram (EEG)							
		8914						
200	Nonoperative urinary system measurements							
		8929						

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Procedure category
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205 Arterial blood gases

8965

206 Microscopic examination (bacterial smear, culture, toxicology)

9001	9002	9003	9004	9005	9006	9009	9011	9012	9013	9014	9015
9016	9019	9021	9022	9023	9024	9025	9026	9029	9031	9032	9033
9034	9035	9036	9039	9041	9042	9043	9044	9045	9046	9049	9051
9052	9053	9054	9055	9056	9059	9061	9062	9063	9064	9065	9066
9069	9071	9072	9073	9074	9075	9076	9079	9081	9082	9083	9084
9085	9086	9089	9091	9092	9093	9094	9095	9096	9099	9101	9102
9103	9104	9105	9106	9109	9111	9112	9113	9114	9115	9116	9119
9121	9122	9123	9124	9125	9126	9129	9131	9132	9133	9134	9135
9136	9139	9141	9142	9143	9144	9145	9146	9149	9151	9152	9153
9154	9155	9156	9159	9161	9162	9163	9164	9165	9166	9169	9171
9172	9173	9174	9175	9176	9179	9181	9182	9183	9184	9185	9186
9189	9191	9192	9193	9194	9195	9196	9199				

207 Radioisotope bone scan

9214

208 Radioisotope pulmonary scan

9215

209 Radioisotope scan and function studies

9201 9202 9203 9204 9205 9209

210 Other radioisotope scan

9211 9212 9213 9216 9217 9218 9219

211 Therapeutic radiology

Appendix B
Clinical Classifications for Health Policy Research, Version 2—PROCEDURES
(with all coding changes valid from January 1980 through September 1998¹)

Procedure category
ICD-9-CM codes
