

Table S1: Diagnoses and Procedure codes used in the study

Diagnosis codes {International Classification of Diseases, Tenth Revision Clinical Modification (ICD-10-CM)}:

Sickle cell disease: D5700 D5701 D5702 D57211 D57212 D57219 D57411 D57412 D57419 D57811 D57812 D57819 D571 D5720 D5740 D5780

Acute kidney injury: N170 N171 N172 N178 N179

Fluid electrolyte imbalance: E860 E861 E869 E870 E871 E872 E873 E874 E875 E876 E8770 E8779 E878

Arrhythmia and heart block: I440 I441 I442 I4430 I4439 I444 I445 I4460 I4469
I447 I450 I4510 I4519 I452 I453 I454 I455 I456 I4581 I4589 I459
I470 I471 I472 I479 I480 I481 I482 I483 I484 I4891 I4892 I491
I492 I493 I4940 I4949 I495 I498 I499 I462 I468 I469 I4901 I4902
R000 R001

Infection or sepsis:

A000 A001 A009 A0100 A0101 A0102 A0103 A0104 A0105 A0109 A011 A012 A013
A014 A020 A021 A0220 A0221 A0222 A0223 A0224 A0225 A0229 A028 A029
A030 A031 A032 A033 A038 A039 A040 A041 A042 A043 A044 A045
A046 A047 A0471 A0472 A048 A049 A050 A051 A052 A053 A054 A055
A058 A059 A060 A061 A062 A063 A064 A065 A066 A067 A0681 A0682
A0689 A069 A070 A071 A072 A073 A074 A078 A079 A080 A0811 A0819
A082 A0831 A0832 A0839 A084 A088 A09 A150 A154 A155 A156 A157
A158 A159 A170 A171 A1781 A1782 A1783 A1789 A179 A1801 A1802 A1803
A1809 A1810 A1811 A1812 A1813 A1814 A1815 A1816 A1817 A1818 A182 A1831
A1832 A1839 A184 A1850 A1851 A1852 A1853 A1854 A1859 A186 A187 A1881
A1882 A1883 A1884 A1885 A1889 A190 A191 A192 A198 A199 A200 A201
A202 A203 A207 A208 A209 A210 A211 A212 A213 A217 A218 A219
A220 A221 A222 A227 A228 A229 A230 A231 A232 A233 A238 A239
A240 A241 A242 A243 A249 A250 A251 A259 A260 A267 A268 A269
A270 A2781 A2789 A279 A280 A281 A282 A288 A289 A300 A301 A302
A303 A304 A305 A308 A309 A310 A311 A312 A318 A319 A320 A3211
A3212 A327 A3281 A3282 A3289 A329 A33 A34 A35 A360 A361 A362
A363 A3681 A3682 A3683 A3684 A3685 A3686 A3689 A369 A3700 A3701 A3710
A3711 A3780 A3781 A3790 A3791 A380 A381 A388 A389 A390 A391 A392
A393 A394 A3950 A3951 A3952 A3953 A3981 A3982 A3983 A3984 A3989 A399
A400 A401 A403 A408 A409 A4101 A4102 A411 A412 A413 A414 A4150
A4151 A4152 A4153 A4159 A4181 A4189 A419 A420 A421 A422 A427 A4281
A4282 A4289 A429 A430 A431 A438 A439 A440 A441 A448 A449 A46
A480 A481 A482 A483 A484 A4851 A4852 A488 A4901 A4902 A491 A492
A493 A498 A499 A5001 A5002 A5003 A5004 A5005 A5006 A5007 A5008 A5009
A501 A502 A5030 A5031 A5032 A5039 A5040 A5041 A5042 A5043 A5044 A5045
A5049 A5051 A5052 A5053 A5054 A5055 A5056 A5057 A5059 A506 A507 A509

A510	A511	A512	A5131	A5132	A5139	A5141	A5142	A5143	A5144	A5145	A5146
A5149	A515	A519	A5200	A5201	A5202	A5203	A5204	A5205	A5206	A5209	A5210
A5211	A5212	A5213	A5214	A5215	A5216	A5217	A5219	A522	A523	A5271	A5272
A5273	A5274	A5275	A5276	A5277	A5278	A5279	A528	A529	A530	A539	A5400
A5401	A5402	A5403	A5409	A541	A5421	A5422	A5423	A5424	A5429	A5430	A5431
A5432	A5433	A5439	A5440	A5441	A5442	A5443	A5449	A545	A546	A5481	A5482
A5483	A5484	A5485	A5486	A5489	A549	A55	A5600	A5601	A5602	A5609	A5611
A5619	A562	A563	A564	A568	A57	A58	A5900	A5901	A5902	A5903	A5909
A598	A599	A6000	A6001	A6002	A6003	A6004	A6009	A601	A609	A630	A638
A64	A65	A660	A661	A662	A663	A664	A665	A666	A667	A668	A669
A670	A671	A672	A673	A679	A680	A681	A689	A690	A691	A6920	A6921
A6922	A6923	A6929	A698	A699	A70	A710	A711	A719	A740	A7481	A7489
A749	A750	A751	A752	A753	A759	A770	A771	A772	A773	A7740	A7741
A7749	A778	A779	A78	A790	A791	A7981	A7989	A799	A800	A801	A802
A8030	A8039	A804	A809	A8100	A8101	A8109	A811	A812	A8181	A8182	A8183
A8189	A819	A820	A821	A829	A830	A831	A832	A833	A834	A835	A836
A838	A839	A840	A841	A848	A8481	A8489	A849	A850	A851	A852	A858
A86	A870	A871	A872	A878	A879	A880	A881	A888	A89	A90	A91
A920	A921	A922	A9230	A9231	A9232	A9239	A924	A925	A928	A929	A930
A931	A932	A938	A94	A950	A951	A959	A960	A961	A962	A968	A969
A980	A981	A982	A983	A984	A985	A988	A99	B000	B001	B002	B003
B004	B0050	B0051	B0052	B0053	B0059	B007	B0081	B0082	B0089	B009	B010
B0111	B0112	B012	B0181	B0189	B019	B020	B021	B0221	B0222	B0223	B0224
B0229	B0230	B0231	B0232	B0233	B0234	B0239	B027	B028	B029	B03	B04
B050	B051	B052	B053	B054	B0581	B0589	B059	B0600	B0601	B0602	B0609
B0681	B0682	B0689	B069	B070	B078	B079	B08010	B08011	B0802	B0803	B0804
B0809	B081	B0820	B0821	B0822	B083	B084	B085	B0860	B0861	B0862	B0869
B0870	B0871	B0872	B0879	B088	B09	B1001	B1009	B1081	B1082	B1089	B150
B159	B160	B161	B162	B169	B170	B1710	B1711	B172	B178	B179	B180
B181	B182	B188	B189	B190	B1910	B1911	B1920	B1921	B199	B20	B250
B251	B252	B258	B259	B260	B261	B262	B263	B2681	B2682	B2683	B2684
B2685	B2689	B269	B2700	B2701	B2702	B2709	B2710	B2711	B2712	B2719	B2780
B2781	B2782	B2789	B2790	B2791	B2792	B2799	B300	B301	B302	B303	B308
B309	B330	B331	B3320	B3321	B3322	B3323	B3324	B333	B334	B338	B340
B341	B342	B343	B344	B348	B349	B350	B351	B352	B353	B354	B355
B356	B358	B359	B360	B361	B362	B363	B368	B369	B370	B371	B372
B373	B3741	B3742	B3749	B375	B376	B377	B3781	B3782	B3783	B3784	B3789
B379	B380	B381	B382	B383	B384	B387	B3881	B3889	B389	B390	B391
B392	B393	B394	B395	B399	B400	B401	B402	B403	B407	B4081	B4089
B409	B410	B417	B418	B419	B420	B421	B427	B4281	B4282	B4289	B429
B430	B431	B432	B438	B439	B440	B441	B442	B447	B4481	B4489	B449
B450	B451	B452	B453	B457	B458	B459	B460	B461	B462	B463	B464
B465	B468	B469	B470	B471	B479	B480	B481	B482	B483	B484	B488
B49	B500	B508	B509	B510	B518	B519	B520	B528	B529	B530	B531

B538	B54	B550	B551	B552	B559	B560	B561	B569	B570	B571	B572
B5730	B5731	B5732	B5739	B5740	B5741	B5742	B5749	B575	B5800	B5801	B5809
B581	B582	B583	B5881	B5882	B5883	B5889	B589	B59	B600	B6000	B6001
B6002	B6003	B6009	B6010	B6011	B6012	B6013	B6019	B602	B608	B64	B650
B651	B652	B653	B658	B659	B660	B661	B662	B663	B664	B665	B668
B669	B670	B671	B672	B6731	B6732	B6739	B674	B675	B6761	B6769	B677
B678	B6790	B6799	B680	B681	B689	B690	B691	B6981	B6989	B699	B700
B701	B710	B711	B718	B719	B72	B7300	B7301	B7302	B7309	B731	B740
B741	B742	B743	B744	B748	B749	B75	B760	B761	B768	B769	B770
B7781	B7789	B779	B780	B781	B787	B789	B79	B80	B810	B811	B812
B813	B814	B818	B820	B829	B830	B831	B832	B833	B834	B838	B839
B850	B851	B852	B853	B854	B86	B870	B871	B872	B873	B874	B8781
B8782	B8789	B879	B880	B881	B882	B883	B888	B889	B89	B900	B901
B902	B908	B909	B91	B92	B940	B941	B942	B948	B949	B950	B951
B952	B953	B954	B955	B9561	B9562	B957	B958	B960	B961	B9620	B9621
B9622	B9623	B9629	B963	B964	B965	B966	B967	B9681	B9682	B9689	B970
B9710	B9711	B9712	B9719	B9721	B9729	B9730	B9731	B9732	B9733	B9734	B9735
B9739	B974	B975	B976	B977	B9781	B9789	B998	B999	R6521	R7881	I76
R6520	I00	I029	K9081	G000	G001	G002	G003	G008	G009	G01	G02
G042	I301	I330	I400	J1082	J120	J121	J122	J123	J1281	J1289	J129
J13	J14	J150	J151	J1520	J15211	J15212	J1529	J153	J154	J155	J156
J157	J158	J159	J160	J168	J17	J180	J181	J188	J189	J851	J852
J09X1	J09X2	J09X3	J09X9	J1000	J1001	J1008	J101	J102	J1089	J1100	J1108
J111	J112	J1181	J1182	J1183	J1189	J36	J200	J201	J202	J203	J204
J205	J206	J207	J208	J210	J211	J218	J219	A360	A361	A362	J00
J020	J028	J0300	J0301	J069	J440	J470	J340	J390	J391	K610	K611
K612	K613	K614	K630	K650	K651	K652	N10	N151	N3000	N3001	N340
N764	L0100	L0101	L0102	L0103	L0109	L011	L0201	L0202	L0203	L0211	L0212
L0213	L02211	L02212	L02213	L02214	L02215	L02216	L02219	L02221	L02222	L02223	L02224
L02225	L02226	L02229	L02231	L02232	L02233	L02234	L02235	L02236	L02239	L0231	L0232
L0233	L02411	L02412	L02413	L02414	L02415	L02416	L02419	L02421	L02422	L02423	L02424
L02425	L02426	L02429	L02431	L02432	L02433	L02434	L02435	L02436	L02439	L02511	L02512
L02519	L02521	L02522	L02529	L02531	L02532	L02539	L02611	L02612	L02619	L02621	L02622
L02629	L02631	L02632	L02639	L02811	L02818	L02821	L02828	L02831	L02838	L0291	L0292
L0293	L03011	L03012	L03019	L03021	L03022	L03029	L03031	L03032	L03039	L03041	L03042
L03049	L03111	L03112	L03113	L03114	L03115	L03116	L03119	L03121	L03122	L03123	L03124
L03125	L03126	L03129	L03211	L03212	L03213	L03221	L03222	L03311	L03312	L03313	L03314
L03315	L03316	L03317	L03319	L03321	L03322	L03323	L03324	L03325	L03326	L03327	L03329
L03811	L03818	L03891	L03898	L0390	L0391	L0889	L089	M0000	M00011		
M00012		M00019		M00021		M00022		M00029		M00031	
M00032		M00039		M00041		M00042		M00049		M00051	
M00052		M00059		M00061		M00062		M00069		M00071	
M00072		M00079		M0008	M0009	M0010	M00111		M00112		
M00119		M00121		M00122		M00129		M00131		M00132	

M00139	M00141	M00142	M00149	M00151	M00152
M00159	M00161	M00162	M00169	M00171	M00172
M00179	M0018 M0019	M0020 M00211	M00212	M00219	
M00221	M00222	M00229	M00231	M00232	M00239
M00241	M00242	M00249	M00251	M00252	M00259
M00261	M00262	M00269	M00271	M00272	M00279
M0028 M0029	M0080 M00811	M00812	M00819	M00821	
M00822	M00829	M00831	M00832	M00839	M00841
M00842	M00849	M00851	M00852	M00859	M00861
M00862	M00869	M00871	M00872	M00879	M0088 M0089
M009 M01X0	M01X11	M01X12	M01X19	M01X21	M01X22
M01X29	M01X31	M01X32	M01X39	M01X41	M01X42
M01X49	M01X51	M01X52	M01X59	M01X61	M01X62
M01X69	M01X71	M01X72	M01X79	M01X8 M01X9	M4620 M4621
M4622 M4623	M4624 M4625	M4626 M4627	M4628 M8600	M86011	M86012
M86019	M86021	M86022	M86029	M86031	M86032
M86039	M86041	M86042	M86049	M86051	M86052
M86059	M86061	M86062	M86069	M86071	M86072
M86079	M8608 M8609	M8610 M86111	M86112	M86119	
M86121	M86122	M86129	M86131	M86132	M86139
M86141	M86142	M86149	M86151	M86152	M86159
M86161	M86162	M86169	M86171	M86172	M86179
M8618 M8619	T80211A	T80211D	T80211S	T80212A	T80212D
T80212S	T80218A	T80218D	T80218S	T80219A	T80219D
T80219S	T8022XA	T8022XD	T8022XS	T8029XA	T8029XD
T8029XS	T8140XA	T8140XD	T8140XS	T8144XA	T8144XD
T8144XS					

A000	A001	A009	A0100	A0101	A0102	A0103	A0104	A0105	A0109	A011	A012	A013
	A014	A020	A021	A0220	A0221	A0222	A0223	A0224	A0225	A0229	A028	A029
	A030	A031	A032	A033	A038	A039	A040	A041	A042	A043	A044	A045
	A046	A047	A0471	A0472	A048	A049	A050	A051	A052	A053	A054	A055
	A058	A059	A060	A061	A062	A063	A064	A065	A066	A067	A0681	A0682
	A0689	A069	A070	A071	A072	A073	A074	A078	A079	A080	A0811	A0819
	A082	A0831	A0832	A0839	A084	A088	A09	A150	A154	A155	A156	A157
	A158	A159	A170	A171	A1781	A1782	A1783	A1789	A179	A1801	A1802	A1803
	A1809	A1810	A1811	A1812	A1813	A1814	A1815	A1816	A1817	A1818	A182	A1831
	A1832	A1839	A184	A1850	A1851	A1852	A1853	A1854	A1859	A186	A187	A1881
	A1882	A1883	A1884	A1885	A1889	A190	A191	A192	A198	A199	A200	A201
	A202	A203	A207	A208	A209	A210	A211	A212	A213	A217	A218	A219
	A220	A221	A222	A227	A228	A229	A230	A231	A232	A233	A238	A239
	A240	A241	A242	A243	A249	A250	A251	A259	A260	A267	A268	A269
	A270	A2781	A2789	A279	A280	A281	A282	A288	A289	A300	A301	A302

A303	A304	A305	A308	A309	A310	A311	A312	A318	A319	A320	A3211
A3212	A327	A3281	A3282	A3289	A329	A33	A34	A35	A360	A361	A362
A363	A3681	A3682	A3683	A3684	A3685	A3686	A3689	A369	A3700	A3701	A3710
A3711	A3780	A3781	A3790	A3791	A380	A381	A388	A389	A390	A391	A392
A393	A394	A3950	A3951	A3952	A3953	A3981	A3982	A3983	A3984	A3989	A399
A400	A401	A403	A408	A409	A4101	A4102	A411	A412	A413	A414	A4150
A4151	A4152	A4153	A4159	A4181	A4189	A419	A420	A421	A422	A427	A4281
A4282	A4289	A429	A430	A431	A438	A439	A440	A441	A448	A449	A46
A480	A481	A482	A483	A484	A4851	A4852	A488	A4901	A4902	A491	A492
A493	A498	A499	A5001	A5002	A5003	A5004	A5005	A5006	A5007	A5008	A5009
A501	A502	A5030	A5031	A5032	A5039	A5040	A5041	A5042	A5043	A5044	A5045
A5049	A5051	A5052	A5053	A5054	A5055	A5056	A5057	A5059	A506	A507	A509
A510	A511	A512	A5131	A5132	A5139	A5141	A5142	A5143	A5144	A5145	A5146
A5149	A515	A519	A5200	A5201	A5202	A5203	A5204	A5205	A5206	A5209	A5210
A5211	A5212	A5213	A5214	A5215	A5216	A5217	A5219	A522	A523	A5271	A5272
A5273	A5274	A5275	A5276	A5277	A5278	A5279	A528	A529	A530	A539	A5400
A5401	A5402	A5403	A5409	A541	A5421	A5422	A5423	A5424	A5429	A5430	A5431
A5432	A5433	A5439	A5440	A5441	A5442	A5443	A5449	A545	A546	A5481	A5482
A5483	A5484	A5485	A5486	A5489	A549	A55	A5600	A5601	A5602	A5609	A5611
A5619	A562	A563	A564	A568	A57	A58	A5900	A5901	A5902	A5903	A5909
A598	A599	A6000	A6001	A6002	A6003	A6004	A6009	A601	A609	A630	A638
A64	A65	A660	A661	A662	A663	A664	A665	A666	A667	A668	A669
A670	A671	A672	A673	A679	A680	A681	A689	A690	A691	A6920	A6921
A6922	A6923	A6929	A698	A699	A70	A710	A711	A719	A740	A7481	A7489
A749	A750	A751	A752	A753	A759	A770	A771	A772	A773	A7740	A7741
A7749	A778	A779	A78	A790	A791	A7981	A7989	A799	A800	A801	A802
A8030	A8039	A804	A809	A8100	A8101	A8109	A811	A812	A8181	A8182	A8183
A8189	A819	A820	A821	A829	A830	A831	A832	A833	A834	A835	A836
A838	A839	A840	A841	A848	A8481	A8489	A849	A850	A851	A852	A858
A86	A870	A871	A872	A878	A879	A880	A881	A888	A89	A90	A91
A920	A921	A922	A9230	A9231	A9232	A9239	A924	A925	A928	A929	A930
A931	A932	A938	A94	A950	A951	A959	A960	A961	A962	A968	A969
A980	A981	A982	A983	A984	A985	A988	A99	B000	B001	B002	B003
B004	B0050	B0051	B0052	B0053	B0059	B007	B0081	B0082	B0089	B009	B010
B0111	B0112	B012	B0181	B0189	B019	B020	B021	B0221	B0222	B0223	B0224
B0229	B0230	B0231	B0232	B0233	B0234	B0239	B027	B028	B029	B03	B04
B050	B051	B052	B053	B054	B0581	B0589	B059	B0600	B0601	B0602	B0609
B0681	B0682	B0689	B069	B070	B078	B079	B08010	B08011	B0802	B0803	B0804
B0809	B081	B0820	B0821	B0822	B083	B084	B085	B0860	B0861	B0862	B0869
B0870	B0871	B0872	B0879	B088	B09	B1001	B1009	B1081	B1082	B1089	B150
B159	B160	B161	B162	B169	B170	B1710	B1711	B172	B178	B179	B180
B181	B182	B188	B189	B190	B1910	B1911	B1920	B1921	B199	B20	B250
B251	B252	B258	B259	B260	B261	B262	B263	B2681	B2682	B2683	B2684
B2685	B2689	B269	B2700	B2701	B2702	B2709	B2710	B2711	B2712	B2719	B2780

B2781	B2782	B2789	B2790	B2791	B2792	B2799	B300	B301	B302	B303	B308
B309	B330	B331	B3320	B3321	B3322	B3323	B3324	B333	B334	B338	B340
B341	B342	B343	B344	B348	B349	B350	B351	B352	B353	B354	B355
B356	B358	B359	B360	B361	B362	B363	B368	B369	B370	B371	B372
B373	B3741	B3742	B3749	B375	B376	B377	B3781	B3782	B3783	B3784	B3789
B379	B380	B381	B382	B383	B384	B387	B3881	B3889	B389	B390	B391
B392	B393	B394	B395	B399	B400	B401	B402	B403	B407	B4081	B4089
B409	B410	B417	B418	B419	B420	B421	B427	B4281	B4282	B4289	B429
B430	B431	B432	B438	B439	B440	B441	B442	B447	B4481	B4489	B449
B450	B451	B452	B453	B457	B458	B459	B460	B461	B462	B463	B464
B465	B468	B469	B470	B471	B479	B480	B481	B482	B483	B484	B488
B49	B500	B508	B509	B510	B518	B519	B520	B528	B529	B530	B531
B538	B54	B550	B551	B552	B559	B560	B561	B569	B570	B571	B572
B5730	B5731	B5732	B5739	B5740	B5741	B5742	B5749	B575	B5800	B5801	B5809
B581	B582	B583	B5881	B5882	B5883	B5889	B589	B59	B600	B6000	B6001
B6002	B6003	B6009	B6010	B6011	B6012	B6013	B6019	B602	B608	B64	B650
B651	B652	B653	B658	B659	B660	B661	B662	B663	B664	B665	B668
B669	B670	B671	B672	B6731	B6732	B6739	B674	B675	B6761	B6769	B677
B678	B6790	B6799	B680	B681	B689	B690	B691	B6981	B6989	B699	B700
B701	B710	B711	B718	B719	B72	B7300	B7301	B7302	B7309	B731	B740
B741	B742	B743	B744	B748	B749	B75	B760	B761	B768	B769	B770
B7781	B7789	B779	B780	B781	B787	B789	B79	B80	B810	B811	B812
B813	B814	B818	B820	B829	B830	B831	B832	B833	B834	B838	B839
B850	B851	B852	B853	B854	B86	B870	B871	B872	B873	B874	B8781
B8782	B8789	B879	B880	B881	B882	B883	B888	B889	B89	B900	B901
B902	B908	B909	B91	B92	B940	B941	B942	B948	B949	B950	B951
B952	B953	B954	B955	B9561	B9562	B957	B958	B960	B961	B9620	B9621
B9622	B9623	B9629	B963	B964	B965	B966	B967	B9681	B9682	B9689	B970
B9710	B9711	B9712	B9719	B9721	B9729	B9730	B9731	B9732	B9733	B9734	B9735
B9739	B974	B975	B976	B977	B9781	B9789	B998	B999	R6521	R7881	I76
R6520	I00	I029	K9081	G000	G001	G002	G003	G008	G009	G01	G02
G042	I301	I330	I400	J1082	J120	J121	J122	J123	J1281	J1289	J129
J13	J14	J150	J151	J1520	J15211	J15212	J1529	J153	J154	J155	J156
J157	J158	J159	J160	J168	J17	J180	J181	J188	J189	J851	J852
J09X1	J09X2	J09X3	J09X9	J1000	J1001	J1008	J101	J102	J1089	J1100	J1108
J111	J112	J1181	J1182	J1183	J1189	J36	J200	J201	J202	J203	J204
J205	J206	J207	J208	J210	J211	J218	J219	A360	A361	A362	J00
J020	J028	J0300	J0301	J069	J440	J470	J340	J390	J391	K610	K611
K612	K613	K614	K630	K650	K651	K652	N10	N151	N3000	N3001	N340
N764	L0100	L0101	L0102	L0103	L0109	L011	L0201	L0202	L0203	L0211	L0212
L0213	L02211	L02212	L02213	L02214	L02215	L02216	L02219	L02221	L02222	L02223	L02224
L02225	L02226	L02229	L02231	L02232	L02233	L02234	L02235	L02236	L02239	L0231	L0232
L0233	L02411	L02412	L02413	L02414	L02415	L02416	L02419	L02421	L02422	L02423	L02424
L02425	L02426	L02429	L02431	L02432	L02433	L02434	L02435	L02436	L02439	L02511	L02512

L02519	L02521	L02522	L02529	L02531	L02532	L02539	L02611	L02612	L02619	L02621	L02622
L02629	L02631	L02632	L02639	L02811	L02818	L02821	L02828	L02831	L02838	L0291	L0292
L0293	L03011	L03012	L03019	L03021	L03022	L03029	L03031	L03032	L03039	L03041	L03042
L03049	L03111	L03112	L03113	L03114	L03115	L03116	L03119	L03121	L03122	L03123	L03124
L03125	L03126	L03129	L03211	L03212	L03213	L03221	L03222	L03311	L03312	L03313	L03314
L03315	L03316	L03317	L03319	L03321	L03322	L03323	L03324	L03325	L03326	L03327	L03329
L03811	L03818	L03891	L03898	L0390	L0391	L0889	L089	M0000	M00011		
M00012		M00019		M00021		M00022		M00029		M00031	
M00032		M00039		M00041		M00042		M00049		M00051	
M00052		M00059		M00061		M00062		M00069		M00071	
M00072		M00079		M0008	M0009	M0010	M00111		M00112		
M00119		M00121		M00122		M00129		M00131		M00132	
M00139		M00141		M00142		M00149		M00151		M00152	
M00159		M00161		M00162		M00169		M00171		M00172	
M00179		M0018	M0019	M0020	M00211		M00212		M00219		
M00221		M00222		M00229		M00231		M00232		M00239	
M00241		M00242		M00249		M00251		M00252		M00259	
M00261		M00262		M00269		M00271		M00272		M00279	
M0028	M0029	M0080	M00811		M00812		M00819		M00821		
M00822		M00829		M00831		M00832		M00839		M00841	
M00842		M00849		M00851		M00852		M00859		M00861	
M00862		M00869		M00871		M00872		M00879		M0088	M0089
M009	M01X0	M01X11		M01X12		M01X19		M01X21		M01X22	
M01X29		M01X31		M01X32		M01X39		M01X41		M01X42	
M01X49		M01X51		M01X52		M01X59		M01X61		M01X62	
M01X69		M01X71		M01X72		M01X79		M01X8	M01X9	M4620	M4621
M4622	M4623	M4624	M4625	M4626	M4627	M4628	M8600	M86011		M86012	
M86019		M86021		M86022		M86029		M86031		M86032	
M86039		M86041		M86042		M86049		M86051		M86052	
M86059		M86061		M86062		M86069		M86071		M86072	
M86079		M8608	M8609	M8610	M86111		M86112		M86119		
M86121		M86122		M86129		M86131		M86132		M86139	
M86141		M86142		M86149		M86151		M86152		M86159	
M86161		M86162		M86169		M86171		M86172		M86179	
M8618	M8619	T80211A		T80211D		T80211S		T80212A		T80212D	
T80212S		T80218A		T80218D		T80218S		T80219A		T80219D	
T80219S		T8022XA		T8022XD		T8022XS		T8029XA		T8029XD	
T8029XS		T8140XA		T8140XD		T8140XS		T8144XA		T8144XD	
T8144XS											

Acute chest syndrome: D57211 D5701 D57411 D57811

Major bleeding: H0523* H210* H313* H3131* H3141* H356* H3573* H431* H4481* H4702* H6112*
I60* S066X* I61* S0634* S0635* S0636* S0637* S0638* I620* I621 I629 R58 I8501 K2211 K250 K252

K254 K256 K260 K262 K264 K266 K270 K272 K274 K276 K280 K282 K284 K286 K2901 K2921 K2931
 K2941 K2951 K2961 K2971 K2981 K2991 K31811 K920 K50011 K50111 K50811 K50911 K51011 K51211
 K51311 K51411 K51511 K51811 K51911 K5521 K5701 K5711 K5713 K5721 K5731 K5733 K5741 K5751
 K5753 K5781 K5791 K5793 K625 K921 K922 M250* M7981 N837 N897 N920 N921 N925 N930 N938
 N939 O717 R040 R041 R042 R0489 R049 R310 R319 S065X* K661 S064X0A S064X0D I7774 I713 J942
 D62 I60 I61 I62 R31 R04 D500 H313 H356 H431 H450 I312 I850 K250 K252 K254 K256 K260 K262 K264
 K266 K270 K272 K274 K276 K280 K282 K284 K286 K625 K661 K920 K921 K922 S064 S065 S066 J942
 K228F K298A K638B K638C K838F K868G I864A H052A S368D G951A D62 D683 D698 D699
 H113 H210 H313 H356 H431 H450 H922 I230 I312 I600 I601 I602
 I603 I604 I605 I606 I607 I608 I609 I610 I611 I612 I613 I614
 I615 I616 I618 I619 I620 I621 I629 I850 I983 J942 K226 K250
 K252 K254 K256 K260 K262 K264 K266 K270 K272 K274 K276 K280
 K282 K284 K286 K290 K625 K661 K762 K920 K921 K922 M250 N020
 N021 N022 N023 N024 N025 N026 N027 N028 N029 N421 N920 N921
 N923 N924 N930 N938 N939 N950 R040 R041 R042 R048 R049 R31
 R58 S064 S065 S066 S260 S271 T792

Cerebrovascular accident: G43601 G43609 G43611 G43619 I6000 I6001 I6002 I6010 I6011
 I6012 I602 I6020 I6021 I6022 I6030 I6031 I6032 I604 I6050 I6051 I6052
 I606 I607 I608 I609 I610 I611 I612 I613 I614 I615 I616 I618
 I619 I6200 I6201 I6202 I6203 I621 I629 I6300 I63011 I63012 I63013 I63019
 I6302 I63031 I63032 I63033 I63039 I6309 I6310 I63111 I63112 I63113 I63119 I6312
 I63131 I63132 I63133 I63139 I6319 I6320 I63211 I63212 I63213 I63219 I6322 I63231
 I63232 I63233 I63239 I6329 I6330 I63311 I63312 I63313 I63319 I63321 I63322 I63323
 I63329 I63331 I63332 I63333 I63339 I63341 I63342 I63343 I63349 I6339 I6340 I63411
 I63412 I63413 I63419 I63421 I63422 I63423 I63429 I63431 I63432 I63433 I63439 I63441
 I63442 I63443 I63449 I6349 I6350 I63511 I63512 I63513 I63519 I63521 I63522 I63523
 I63529 I63531 I63532 I63533 I63539 I63541 I63542 I63543 I63549 I6359 I636 I638
 I639 I6601 I6602 I6603 I6609 I6611 I6612 I6613 I6619 I6621 I6622 I6623
 I6629 I663 I668 I669 R29700 R29701 R29702 R29703 R29704 R29705 R29706 R29707
 R29708 R29709 R29710 R29711 R29712 R29713 R29714 R29715 R29716 R29717 R29718 R29719
 R29720 R29721 R29722 R29723 R29724 R29725 R29726 R29727 R29728 R29729 R29730 R29731
 R29732 R29733 R29734 R29735 R29736 R29737 R29738 R29739 R29740 R29741 R29742 I6501
 I6502 I6503 I6509 I651 I6521 I6522 I6523 I6529 I658 I659 G460 G461
 G462 G463 G464 G465 G466 G467 G468 I671 I672 I675 I676 I677
 I6781 I6782 I6783 I67841 I67848 I6789 I679 I680 I682 I688 B0681 G450
 G451 G452 G453 G454 G458 G459 I6900 I6901 I69010 I69011 I69012 I69013
 I69014 I69015 I69018 I69019 I69020 I69021 I69022 I69023 I69028 I69031 I69032 I69033
 I69034 I69039 I69041 I69042 I69043 I69044 I69049 I69051 I69052 I69053 I69054 I69059
 I69061 I69062 I69063 I69064 I69065 I69069 I69090 I69091 I69092 I69093 I69098 I6910
 I6911 I69110 I69111 I69112 I69113 I69114 I69115 I69118 I69119 I69120 I69121 I69122
 I69123 I69128 I69131 I69132 I69133 I69134 I69139 I69141 I69142 I69143 I69144 I69149
 I69151 I69152 I69153 I69154 I69159 I69161 I69162 I69163 I69164 I69165 I69169 I69190
 I69191 I69192 I69193 I69198 I6920 I6921 I69210 I69211 I69212 I69213 I69214 I69215
 I69218 I69219 I69220 I69221 I69222 I69223 I69228 I69231 I69232 I69233 I69234 I69239

I69241 I69242 I69243 I69244 I69249 I69251 I69252 I69253 I69254 I69259 I69261 I69262
I69263 I69264 I69265 I69269 I69290 I69291 I69292 I69293 I69298 I6930 I6931 I69310
I69311 I69312 I69313 I69314 I69315 I69318 I69319 I69320 I69321 I69322 I69323 I69328
I69331 I69332 I69333 I69334 I69339 I69341 I69342 I69343 I69344 I69349 I69351 I69352
I69353 I69354 I69359 I69361 I69362 I69363 I69364 I69365 I69369 I69390 I69391 I69392
I69393 I69398 I6980 I6981 I69810 I69811 I69812 I69813 I69814 I69815 I69818 I69819
I69820 I69821 I69822 I69823 I69828 I69831 I69832 I69833 I69834 I69839 I69841 I69842
I69843 I69844 I69849 I69851 I69852 I69853 I69854 I69859 I69861 I69862 I69863 I69864
I69865 I69869 I69890 I69891 I69892 I69893 I69898 I6990 I6991 I69910 I69911 I69912
I69913 I69914 I69915 I69918 I69919 I69920 I69921 I69922 I69923 I69928 I69931 I69932
I69933 I69934 I69939 I69941 I69942 I69943 I69944 I69949 I69951 I69952 I69953 I69954
I69959 I69961 I69962 I69963 I69964 I69965 I69969 I69990 I69991 I69992 I69993 I69998

Venous thromboembolism: I81 I820 I82210 I82211 I82220 I82221 I82290 I82291 I823
I82401 I82402 I82403 I82409 I82411 I82412 I82413 I82419 I82421 I82422 I82423 I82429 I82431
I82432 I82433 I82439 I82441 I82442 I82443 I82449 I82491 I82492 I82493 I82499 I824Y1
I824Y2 I824Y3 I824Y9 I824Z1 I824Z2 I824Z3 I824Z9 I82501 I82502 I82503 I82509 I82511
I82512 I82513 I82519 I82521 I82522 I82523 I82529 I82531 I82532 I82533 I82539 I82541
I82542 I82543 I82549 I82591 I82592 I82593 I82599 I825Y1 I825Y2 I825Y3 I825Y9 I825Z1
I825Z2 I825Z3 I825Z9 I82621 I82622 I82623 I82629 I82721 I82722 I82723 I82729 I82A11
I82A12 I82A13 I82A19 I82A21 I82A22 I82A23 I82A29 I82B11 I82B12 I82B13 I82B19 I82B21
I82B22 I82B23 I82B29 I82C11 I82C12 I82C13 I82C19 I82C21 I82C22 I82C23 I82C29 I2602
I2609 I2692 I2699 I2782 Z86711

Acute respiratory failure: J80 J95821 J95822 J9600 J9601 J9602 J9620 J9621 J9622 R092

Acute kidney injury: N170 N171 N172 N178 N179

Procedure codes {International Classification of Diseases, Tenth Revision Procedure Coding System (ICD-10-PCS)}:

Red Blood Cell Transfusion: 30230N1 30230P1 30233N1 30233P1 30240N1 30240P1 30243N1 30243P1