

Supplemental Table 1: ICD 9 and 10 billing codes for risk factors

Risk factors	ICD-10	ICD-9	CPT Codes
*: all specific codes under the general codes were used.			
Intra-aortic Balloon Pump	5A02210	37.61	
Tobacco/Smoking	Z72.0, F17.21-F17.299, Z87.891	V15.82, 305.1	
Hypertension	I10, I11.0, I11.9, I12.0, I12.9, I13.0, I13.1, I13.10, I13.11, I13.2, I15, I15.0, I15.1, I15.2, I15.8, I15.9, I16, I16.0, I16.1, I16.9	401.0, 401.1, 401.9, 402.01, 402.11, 402.91, 402.00, 402.10, 402.90, 403.01, 403.11, 403.91, 403.00, 403.10, 403.90, 404.01, 404.11, 404.91, 404.00, 404.10, 404.90, 404.02, 404.12, 404.92, 404.03, 404.13, 404.93, 405.01, 405.11, 405.19, 405.91, 405.99, 405.09, 405.19, 405.99	

Congestive Heart Failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5-I42.9, I43, P29.0. *: I50.	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 414.8, 425.4-425.99. *: 428.	
Cardiomyopathy	I25.5, I42.0, I42.5-I42.9, I43	*: 425	
Diabetes Mellitus	*: E08, E09, E10, E11, E13.	*: 249, 250.	
Coronary Artery Disease	*: I25.1, I25.2, I25.3, I25.4, I25.6, I25.7, I25.8, I25.9.	*: 414	
Chronic Lung Disease	*: J41, J42, J43, J44, J45, J47.	*: 491, 492, 493, 494, 496.	
Chronic Obstructive Pulmonary Disease (COPD)	*: J41, J42, J43, J44 - Asthma and Bronchiectasis were not counted as a chronic obstructive pulmonary disease	*: 491, 492, 496. - Asthma and Bronchiectasis were not counted as a chronic obstructive pulmonary disease	
History of Stroke	Z86.73	V12.54	
Stroke	Z86.73, G45.8, G45.9. *: I63.	V12.54, 433.01, 433.11, 433.21,	

		433.31, 433.81, 433.91, 434.01, 434.11, 434.91, 435.2, 435.9, 435.8	
Carotid Disease	I65.21, I65.22, I65.23, I65.29, I77.71, G45.1	433.0-433.3, 435.8, 443.21	
Carotid Stenosis	*: I65.2;	*: 433.1;	
Cerebral Vascular Disease	Z86.73. *: I60, I61, I62, I63, I65, I66, I67, I68, I69, G45, G46.	V12.54. *: 430, 431, 432, 433, 434, 435, 436, 437, 438.	
Peripheral Vascular Disease	I73.00, I73.01, I73.1, I73.81, I73.89, I73.9, I70.20-I70.25, I70.8, I70.92	443.0, 443.1, 443.21, 443.22, 443.23, 443.24, 443.29, 443.81, 443.82, 443.89, 443.9	
Atrial Fibrillation/Atrial Flutter	I48-I48.4, I48.9-I48.92	427.3-427.32	
Myocardial Infarction (MI)	I25.2. *: I21, I22.	412. *: 410	
Prior MI Documented	I25.2.	412.	
Prior Coronary Artery Bypass Graft	Z95.1, Z95.5.	V45.81.	

Prior Percutaneous Coronary Intervention	Z98.61.	V45.82.	
Permanent Pacemaker or Implantable Cardiac Defibrillator (PPM/ICD)	Z95.0, Z95.810.	V45.01, V45.02.	
Depression	*: F32, F33	298.0, 296.82, 311, 298.0, 296.20-296.36	
Bipolar Disorder	*: F31.	296.40, 296.41, 296.42, 296.43, 296.44, 296.50-296.54, 296.60-296.64, 296.7, 296.45, 296.46, 296.55, 296.56, 296.65, 296.66, 296.89, 296.40, 296.80	
Schizophrenia	*: F20.	*: 295.	
Dementia	F01.50, F01.51, F02.80, F02.81, F03.90, F03.91, G31.01, G31.09, G31.83.	290.0, 290.10, 290.11, 290.13, 290.21, 290.40, 290.41, 290.8, 290.9, 294.10, 294.11, 294.20, 294.21, 331.11, 331.19, 331.82.	
Bicuspid Aortic Valve	Q23.1.	746.4.	

Syncope	R55, G90.01.	780.2, 337.01.	
Dyspnea	R06.00, R06.01, R06.02, R06.03, R06.09.	518.82, 786.02, 786.05, 786.09, 770.89.	
Chest Pain	*: I20.	413.1, 413.9, 411.1	
Dialysis	Z99.2.	V45.11.	
Hyperlipidemia	E78.00, E78.01, E78.1, E78.2, E78.3, E78.49, E78.5.	272.0, 272.1, 272.2, 272.3, 272.4.	
Elevated Lipoprotein	E78.41	.	
History of Mitral Valve Repair or Replacement	Z95.2- Z95.4	V42.2, V43.3	
History of Aortic Valve replacement	Z95.2- Z95.4	V42.2, V43.3	
Presence of Prosthetic Heart valve	Z95.2-Z95.4	V42.2	
Abdominal Aortic Aneurysm	I71.3, I71.4, Z86.79	441.3, 441.4, V12.59	
Aortic Valve Disorders	I06.0, I06.1, I06.2, I08.0, I08.2, I08.3, I35.0, I35.1, I35.2, I35.8, I35.9	395.0, 395.2, 396.1, 396.3, 424.1	
Non-rheumatic aortic stenosis	I35.0, I35.2	424.1	

Rheumatic Heart Disease	I05.0-I09.9	393, 394.1, 395.0-395.9 397.1-397.9, 398.90-398.99	
Obstructive Sleep Apnea	G47.33	327.23	
BMI	< 19.9: Z68.1 20-29: Z68.20-Z68.29 30-39: Z68.30-Z68.39 >40.0: Z68.41-Z68.45	< 19: V85.0 19-24: V85.1 25.0-29.9: V85.21-V85.25 30.0-39.9: V85.30-V85.39 >40.0: V85.41-V85.44	
Leukemia	*: C91, C92, C93, C94, C95.	*: 204, 205, 206, 207, 208.	
Lymphoma	C81.00-C81.99, C82.00-C82.99, C83.00-C83.99, C84.00-C84.99, C85.10-C85.99, C86.0-C85.6, C88.4	200.20-200.78, 201.00-201.98, 202.00-202.08, 202.20-202.28, 202.70-202.98	
Chronic kidney disease (CKD)	N18.1	585.1	
Stage I	N18.2	585.2	
Stage II	N18.3	585.3	
Stage III	N18.4	585.4	
Stage IV	N18.5	585.5	

Stage V ESRD	N18.6	585.6	
CKD, with dialysis	Z99.2	V45.11	
CKD, without dialysis	N18.1-N18.9	585.1-585.9	
Thoracic Aortic Aneurysm without rupture	I71.2	441.2	
Thoracic aortic aneurysm, ruptured	I71.1	441.1	
Obesity	E66-E66.9	278-278.3	
Anemia of Deficiency, iron deficiency	D64.9	280.1-281.9, 285.21-285.29, 285.9	
Collagen Vascular Disease	M35.1	701.0, 710.0-710.9, 714.0-714.9, 720.0- 720.9, 725	
Fluid and Electrolyte Disorders	E87.0	*:276.	
Pulmonary Hypertension	I27.0, I27.2-I27.299	416, 416.8	
Platelet count (thrombocytopenia)	*: D69.1, D69.3, D69.4, D69.5, D69.6.	*: 287.1, 287.3, 287.4, 287.5.	

Previous internal cardioverter-defibrillator	Z95.810	V45.02	
Cerebral occlusion	*: I66	*: 434.	
Hypothyroidism	E00.0-E00.9, E01.0-E01.8, E02, E03.0-E0.39	243, 244-244.9	
Thrombocytopenia	D69.1, D69.3, D69.4-D69.6	287.1, 287.3-287.5	
Procedures			
SAVR	02RF07Z, 02RF0JZ, 02RF08Z, 02RF0KZ	35.21, 35.22	33405, 33406, 33410
TAVR - Non-femoral Access	02RF37H, 02RF38H, 02RF3JH, 02RF3KH	35.06	33363, 33364, 33365, 33366, 33369
TAVR - Femoral Access	02RF37Z, 02RF38Z, 02RF3JZ, 02RF3KZ, 02RF47Z, 02RF48Z, 02RF4JZ, 02RF4KZ	35.05	33361, 33362, 33367, 33368
Outcomes			
Permanent Stroke (diagnosis)	I97.810, I97.811, I97.820, I97.821	997.02	

Renal Failure (diagnosis)	N17.0-N17.9, N99.0, Z49.01-Z49.02, Z99.2.	584.5, 584.6, 584.7, 584.8, 584.9, 997.5, V45.11, V56.1-V56.2.	
Prolonged Ventilation (diagnosis)	5A1945Z, 5A1955Z	96.72	
Reoperation For Any Cardiac Reason			
Reoperation for bleeding/tamponade (diagnosis)	I97.610, I97.611, I97.618, I97.51.	998.11, 998.2.	
Valvular dysfunction (diagnosis)	T82.01XA, T82.02XA, T82.03XA, T82.09XA.	996.02.	
Unplanned coronary artery intervention (procedure)	*: 0210, 0211, 0212, 0213, 0270, 0271, 0272, 0273.	36.1-36.19, 36.06, 36.07, 0.66	
Aortic reintervention (diagnosis or procedure)	Diagnosis: Z95.2-Z95.4. Procedure: 02RF07Z, 02RF0JZ, 02RF08Z, 02RF0KZ, 02RF37H, 02RF38H, 02RF3JH, 02RF3KH, 02RF37Z,	Diagnosis: V43.3, V42.2. Procedure: 35.21, 35.22, 35.05, 35.06, 38.35, 38.45, 39.73.	Procedure: 33405, 33406, 33410, 33361, 33362, 33363, 33364, 33365,

	02RF38Z, 02RF3JZ, 02RF3KZ, 02RF47Z, 02RF48Z, 02RF4JZ, 02RF4KZ,02RX07Z, 02RX08Z, 02RX0JZ, 02RX0KZ, 02RW07Z, 02RW08Z, 02RW0JZ, 02RW0KZ, 02UW07Z, 02UW08Z, 02UW0JZ, 02UW0KZ, 02UX07Z, 02UX08Z, 02UX0JZ, 02UX0KZ, 02VW0DZ, 02VX0DZ, 02QW0ZZ, 02QX0ZZ, 02RX47Z, 02RX48Z, 02RX4JZ, 02RX4KZ, 02RW47Z, 02RW48Z, 02RW4JZ, 02RW4KZ, 02UW37Z, 02UW38Z, 02UW3JZ, 02UW3KZ, 02UW47Z, 02UW48Z, 02UW4JZ, 02UW4KZ, 02UX37Z, 02UX38Z, 02UX3JZ, 02UX3KZ, 02UX47Z, 02UX48Z, 02UX4JZ, 02UX4KZ, 02VX3DZ, 02VX4DZ, 02QX3ZZ, 02QX4ZZ, 02VW3DZ, 02VW4DZ, 02QW3ZZ, 02QW4ZZ.		33366, 33367, 33368, 33369.
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<p>Other cardiac reason (diagnosis or procedure)</p>	<p>Diagnosis: Z95.810, Z95.811.</p> <p>Procedure: 02QG0ZE, 02QG0ZZ, 02QG3ZE, 02QG3ZZ, 02QG4ZE, 02QG4ZZ, 02QH0ZZ, 02QH3ZZ, 02QH4ZZ, 02QJ0ZG, 02QJ0ZZ, 02QJ3ZG, 02QJ3ZZ, 02QJ4ZG, 02QJ4ZZ, 02RG07Z, 02RG08Z, 02RG0JZ, 02RG0KZ, 02RG37H, 02RG37Z, 02RG38H, 02RG38Z, 02RG3JH, 02RG3JZ, 02RG3KH, 02RG3KZ, 02RG47Z, 02RG48Z, 02RG4JZ, 02RG4KZ, 02RH07Z, 02RH08Z, 02RH0JZ, 02RH0KZ, 02RH37H, 02RH37Z, 02RH38H, 02RH38Z, 02RH3JH, 02RH3JZ, 02RH3KH, 02RH3KZ, 02RH47Z, 02RH48Z, 02RH4JZ, 02RH4KZ,</p>	<p>Diagnosis: V45.02, V43.21.</p> <p>Procedure: 35.99, 35.12, 35.33, 35.13, 35.33, 35.99, 35.14, 35.33, 35.23, 35.24, 35.09, 35.25, 35.26, 35.08, 35.07, 35.27, 35.28, 35.09.</p>	<p>Procedure: 0345T, 33418, 33419, 33425, 33426, 33427, 33430, 0483T, 0484T, 33463, 33464, 33465, 33475, 33470, 33471, 33472, 33473, 33474, 33440, 33411, 33412, 33413.</p>
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	02RJ07Z, 02RJ0JZ, 02RJ37H, 02RJ38H, 02RJ3JH, 02RJ3KH, 02RJ47Z, 02RJ4JZ, 02RJ4KZ.	02RJ08Z, 02RJ0KZ, 02RJ37Z, 02RJ38Z, 02RJ3JZ, 02RJ3KZ, 02RJ48Z,		
Deep Sternal Wound Infection / Mediastinitis (diagnosis)	J98.51, J85.3, T81.42XA, T81.43XA		519.2, 519.3, 513.1	
Outcomes				
AKI	N17.0-N17.9, N99.0, Z99.2		584.5, 584.6 584.7, 584.8, 584.9, 997.5, V45.11	
Cardiac Arrest	I97.120, I97.710, I46.9		429.4, 997.1, 427.5	
Major Bleeding	I97.610, I97.611, I97.618, I97.51		998.11, 998.2	
Endocarditis	B37.6, I33.0, I33.9, A52.03, M32.11, I01.1 I38, I39, I09.1, A32.82, A39.51, B33.21, I35.8, A18.84, A54.83		391.1, 112.81, 421.0, 421.1, 421.9, 093.20-093.24, 424.91,424.90, 397.9, 036.42, 074.22, 098.84	
TIA	G45.9		435.9	

Vascular Complications	T81718A, T81719A, T8172XA	9972, 99779	
MI	I21.0-I21.99, I21.A, I21.A1, I21.A9	410.00-410.92	
Major Stroke	I97.81-I97.821, I63-I63.9	997.02, 433.91, 433.21, 433.01, 433.11, 433.81, 433.91, 434.01, 434.11, 434.91, 433.31	

Supplementary Table 2. Elixhauser comorbidity scores, ICD billing codes, and variable weighting

Comorbidity	ICD-9 Codes	ICD-10 Codes	Mortality Weight	Readmission Weight
Congestive Heart Failure	39891, 4280-4289	I0981, I501, I5020, I5021, I5022, I5023, I5030, I5031, I5032, I5033, I5040, I5041, I5042, I5043, I50810, I50811, I50812, I50813, I50814, I5082, I5083, I5084, I5089, I509	9	13
Valvular Disease	09320-09324, 3940-3971, 3979, 4240-42499, 7463-7466, V422, V433	A5203, I050, I051, I052, I058, I059, I060, I061, I062, I068, I069, I070, I071, I072, I078, I079, I080, I081, I082, I083, I088, I089, I091, I0989, I340, I341, I342, I348, I349, I350, I351, I352, I358, I359, I360, I361, I362, I368, I369, I370, I371, I372, I378, I379, I38, I39, Q230, Q231, Q232, Q233, Z952, Z953, Z954	0	0

Pulmonary Circulation Disorder	4150-41519, 4160-4169, 4179, 999.1	I2601, I2602, I2609, I2690, I2692, I2693, I2694, I2699, I270, I271, I2781, I2782, I2783, I2789, I279, I289, T800XXA, T82817A, T82818A	6	5
Peripheral Vascular Disorder	4400-4409, 44100-4419, 4420-4429, 4430-4439, 44421-44422, 449, 4471, 5571, 5579, V434	I700-I7092, I7100-I719, I720, I721-I729, I731, I7381, I7389, I739, I742, I743, I744, I76, I771, I7770, I7771, I7772, I7773, I7774, I7775, I7776, I7777, I7779, I790, I791, I798, K551, K558, K559, Z95820, Z95828	3	4
Hypertension	4011, 4019, 64200-64204, 4010, 4372, 64220-64224, 40200, 40210, 40290, 40509, 40519, 40599, 40201, 40211, 40291, 40300, 40310, 40390, 40501, 40511, 40591, 64210-64214, 40301,	I130, I132, I1310, I1311, I129, I150, I151, I120, I10, O10011, O10012, O10013, O10019, O1002, O1003, O10911, O10912, O10913, O10919, O1092, O1093, I160,	-1	-1

	40311, 40391, 40400, 40410, 40490, 40401, 40411, 40491, 40402, 40412, 40492, 40403, 40413, 40493, 64270-64274, 64290-64294	I161, I169, I674, O10111, O10112, O10113, O10119, O1012, O1013, O10211, O10212, O10213, O10219, O1022, O1023, O10311, O10312, O10313, O10319, O1032, O1033, O10411, O10412, O10413, O10419, O1042, O1043, O111, O112, O113, O114, O115, O119, I110, I119, I152, I158, I159, O161, O162, O163, O164, O165, O169		
Paralysis	3420 -3449, 43820-43853, 78072	G041, G800, G801, G802, G804, G808, G809, G8100, G8101, G8102, G8103, G8104, G8110, G8111, G8112, G8113, G8114, G8190, G8191, G8192, G8193, G8194, G8220, G8221, G8222, G8250, G8251,	5	6

		G8252, G8253, G8254, G830, G8310, G8311, G8312, G8313, G8314, G8320, G8321, G8322, G8323, G8324, G8330, G8331, G8332, G8333, G8334, G834, G835, G8381, G8382, G8383, G8384, G8389, G839, I69031, I69032, I69033, I69034, I69039, I69041, I69042, I69043, I69044, I69049, I69051, I69052, I69053, I69054, I69059, I69061, I69062, I69063, I69064, I69065, I69069, I69131, I69132, I69133, I69134, I69139, I69141, I69142, I69143, I69144, I69149, I69151, I69152, I69153, I69154, I69159, I69161,		
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		I69162, I69164, I69169, I69232, I69234, I69241, I69243, I69249, I69252, I69254, I69261, I69263, I69265, I69331, I69333, I69339, I69342, I69344, I69351, I69353, I69359, I69362, I69364, I69369, I69832, I69834, I69841, I69843, I69849, I69852,	I69163, I69165, I69231, I69233, I69239, I69242, I69244, I69251, I69253, I69259, I69262, I69264, I69269, I69332, I69334, I69341, I69343, I69349, I69352, I69354, I69361, I69363, I69365, I69831, I69833, I69839, I69842, I69844, I69851, I69853,		
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		I69854, I69859, I69861, I69862, I69863, I69864, I69865, I69869, I69931, I69932, I69933, I69934, I69939, I69941, I69942, I69943, I69944, I69949, I69951, I69952, I69953, I69954, I69959, I69961, I69962, I69963, I69964, I69965, I69969, R532		
Neurodegenerative Disorders	3300-3319, 3320, 3334, 3335, 3337, 33371, 33372, 33379, 33385, 33394, 3340-3359, 3380, 340, 3411-3419, 34500-34511, 3452 -3453, 34540-34591, 34700-34701, 34710-34711, 64940-64944, 7687, 76870-76873, 7803, 78031, 78032, 78033, 78039, 78097, 7843, 348.9, 348.89	E7500, E7501, E7502, E7509, E7510, E7511, E7519, E7523, E7525, E7526, E7529, E754, F842, G10, G110, G111, G112, G113, G114, G118, G119, G120, G121, G1220, G1221, G1222, G1223, G1224, G1225, G1229, G128, G129, G132, G138, G20, G214, G2401, G2402, G2409, G242, G248, G254, G255,	5	7

		G2581, G300, G301, G308, G309, G3101, G3109, G311, G312, G3181, G3182, G3183, G3184, G3185, G3189, G319, G3281, G35, G361, G368, G369, G370, G371, G372, G373, G374, G375, G378, G379, G40001, G40009, G40011, G40019, G40101, G40109, G40111, G40119, G40201, G40209, G40211, G40219, G40301, G40309, G40311, G40319, G40401, G40409, G40411, G40419, G40501, G40509, G40801, G40802, G40803, G40804, G40811, G40812, G40813, G40814, G40821, G40822, G40823, G40824, G4089, G40901, G40909, G40911, G40919,		
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		G40A01, G40A09, G40A11, G40A19, G40B01, G40B09, G40B11, G40B19, G47411, G47419, G47421, G47429, G803, G890, G910, G911, G912, G913, G914, G918, G919, G937, G9389, G939, G94, O99350, O99351, O99352, O99353, O99354, O99355, P9160, P9161, P9162, P9163, R410, R4182, R4701, R5600, R5601, R561, R569		
Chronic Pulmonary Disease	490-4941, 4950-505, 5064	J40, J410, J411, J418, J42, J430, J431, J432, J438, J439, J440, J441, J449, J4520, J4521, J4522, J4530, J4531, J4532, J4540, J4541, J4542, J4550, J4551, J4552, J45901, J45902, J45909, J45990, J45991, J45998, J470, J471, J479, J60, J61, J620,	3	8

		J628, J630, J631, J632, J633, J634, J635, J636, J64, J660, J661, J662, J668, J670, J671, J672, J673, J674, J675, J676, J677, J678, J679, J684,		
Diabetes uncomplicated	25000-25033, 64800-64804, 24900-24931	E0800, E0801, E0810, E0811, E089, E0900, E0901, E0910, E0911, E099, E1010, E1011, E109, E1100, E1101, E1110, E1111, E119, E1300, E1301, E1310, E1311, E139, O24011, O24012, O24013, O24019, O2402, O2403, O24111, O24112, O24113, O24119, O2412, O2413, O24311, O24312, O24313, O24319, O2432, O2433, O24811, O24812, O24813, O24819, O2482, O2483, O24911, O24912, O24913, O24919,	0	6

		O2492, O2493		
Diabetes complicated	25040-25093, 4940-24991	7751, E0821, E0822, E0829, E08311, E08319, E08321, E083211, E083212, E083213, E083219, E08329, E083291, E083292, E083293, E083299, E08331, E083311, E083312, E083313, E083319, E08339, E083391, E083392, E083393, E083399, E08341, E083411, E083412, E083413, E083419, E08349, E083491, E083492, E083493, E083499, E08351, E083511, E083512, E083513, E083519, E083521, E083522, E083523, E083529, E083531, E083532, E083533, E083539, E083541, E083542, E083543, E083549, E083551, E083552, E083553, E083559, E08359, E083591, E083592,	-3	9

		E083593, E083599, E0836, E0837X1, E0837X2, E0837X3, E0837X9, E0839, E0840, E0841, E0842, E0843, E0844, E0849, E0851, E0852, E0859, E08610, E08618, E08620, E08621, E08622, E08628, E08630, E08638, E08641, E08649, E0865, E0869, E088, E0921, E0922, E0929, E09311, E09319, E09321, E093211, E093212, E093213, E093219, E09329, E093291, E093292, E093293, E093299, E09331, E093311, E093312, E093313, E093319, E09339, E093391, E093392, E093393, E093399, E09341, E093411, E093412, E093413, E093419, E09349, E093491, E093492, E093493, E093499,		
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		E09351, E093511, E093512, E093513, E093519, E093521, E093522, E093523, E093529, E093531, E093532, E093533, E093539, E093541, E093542, E093543, E093549, E093551, E093552, E093553, E093559, E09359, E093591, E093592, E093593, E093599, E0936, E0937X1, E0937X2, E0937X3, E0937X9, E0939, E0940, E0941, E0942, E0943, E0944, E0949, E0951, E0952, E0959, E09610, E09618, E09620, E09621, E09622, E09628, E09630, E09638, E09641, E09649, E0965, E0969, E098, E1021, E1022, E1029, E10311, E10319, E10321, E103211, E103212, E103213, E103219, E10329,		
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		E103291, E103292, E103293, E103299, E10331, E103311, E103312, E103313, E103319, E10339, E103391, E103392, E103393, E103399, E10341, E103411, E103412, E103413, E103419, E10349, E103491, E103492, E103493, E103499, E10351, E103511, E103512, E103513, E103519, E103521, E103522, E103523, E103529, E103531, E103532, E103533, E103539, E103541, E103542, E103543, E103549, E103551, E103552, E103553, E103559, E10359, E103591, E103592, E103593, E103599, E1036, E1037X1, E1037X2, E1037X3, E1037X9, E1039, E1040, E1041, E1042, E1043, E1044, E1049,		
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		E1051, E1052, E1059, E10610, E10618, E10620, E10621, E10622, E10628, E10630, E10638, E10641, E10649, E1065, E1069, E108, E1121, E1122, E1129, E11311, E11319, E11321, E113211, E113212, E113213, E113219, E11329, E113291, E113292, E113293, E113299, E11331, E113311, E113312, E113313, E113319, E11339, E113391, E113392, E113393, E113399, E11341, E113411, E113412, E113413, E113419, E11349, E113491, E113492, E113493, E113499, E11351, E113511, E113512, E113513, E113519, E113521, E113522, E113523, E113529, E113531, E113532, E113533,		
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		E113539, E113541, E113542, E113543, E113549, E113551, E113552, E113553, E113559, E11359, E113591, E113592, E113593, E113599, E1136, E1137X1, E1137X2, E1137X3, E1137X9, E1139, E1140, E1141, E1142, E1143, E1144, E1149, E1151, E1152, E1159, E11610, E11618, E11620, E11621, E11622, E11628, E11630, E11638, E11641, E11649, E1165, E1169, E118, E1321, E1322, E1329, E13311, E13319, E13321, E133211, E133212, E133213, E133219, E13329, E133291, E133292, E133293, E133299, E13331, E133311, E133312, E133313, E133319, E13339, E133391, E133392,		
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		E133393, E133399, E13341, E133411, E133412, E133413, E133419, E13349, E133491, E133492, E133493, E133499, E13351, E133511, E133512, E133513, E133519, E133521, E133522, E133523, E133529, E133531, E133532, E133533, E133539, E133541, E133542, E133543, E133549, E133551, E133552, E133553, E133559, E13359, E133591, E133592, E133593, E133599, E1336, E1337X1, E1337X2, E1337X3, E1337X9, E1339, E1340, E1341, E1342, E1343, E1344, E1349, E1351, E1352, E1359, E13610, E13618, E13620, E13621, E13622, E13628, E13630, E13638, E13641, E13649,		
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		E1365, E1369, E138, P702		
Hypothyroidism	243-2449	E000, E001, E002, E009, E018, E02, E030, E031, E032, E033, E038, E039, E890	0	0
Renal Failure	5853, 5854, 5855, 5856, 5859, 586, V420, V451, V560-V5632, V568, V4511-V4512	N183, N184, N185, N186, N189, N19, Z4901, Z4902, Z4931, Z4932, Z9115, Z940, Z992	6	15
Liver Disease	07022, 07023, 07032, 07033, 07044, 07054, 4560, 4561, 45620, 45621, 5710, 5712, 5713, 57140-57149, 5715, 5716, 5718, 5719, 5723, 5728, 5735, V427, 572.2, 5733, 573.8, 573.9	B180, B181, B182, I8500, I8501, I8510, I8511, K700, K702, K7030, K7031, K7040, K7041, K709, K7210, K7211, K7290, K7291, K730, K731, K732, K738, K739, K740, K741, K742, K743, K744, K745, K7460, K7469, K754, K7581, K760, K766, K7689, K769, Z944	4	10
Peptic Ulcer	53141, 53151, 53161,	K254, K255, K256,	0	0

Disease, Excluding Bleeding	53170, 53171, 53191, 53241, 53251, 53261, 53270, 53271, 53291, 53341, 53351, 53361, 53370, 53371, 53391, 53441, 53451, 53461, 53470, 53471, 53491, 531.40, 531.50, 531.90, 532.40, 532.50, 532.60, 532.90, 533.40, 533.50, 533.60, 533.90, 534.40, 534.50, 534.60, 534.90	K257, K259, K264, K265, K266, K267, K269, K274, K275, K276, K277, K279, K284, K285, K286, K287, K289		
AIDS/HIV	042 -0449	B20	0	19
Lymphoma	20000-20238, 20250-2030, 2386, 2733, 20302-20382, 238.79	C8100, C8101, C8102, C8103, C8104, C8105, C8106, C8107, C8108, C8109, C8110, C8111, C8112, C8113, C8114, C8115, C8116, C8117, C8118, C8119, C8120, C8121, C8122, C8123, C8124, C8125, C8126, C8127, C8128, C8129, C8130, C8131,	6	16

		C8132, C8134, C8136, C8138, C8140, C8142, C8144, C8146, C8148, C8170, C8172, C8174, C8176, C8178, C8190, C8192, C8194, C8196, C8198, C8200, C8202, C8204, C8206, C8208, C8210, C8212, C8214, C8216, C8218, C8220,	C8133, C8135, C8137, C8139, C8141, C8143, C8145, C8147, C8149, C8171, C8173, C8175, C8177, C8179, C8191, C8193, C8195, C8197, C8199, C8201, C8203, C8205, C8207, C8209, C8211, C8213, C8215, C8217, C8219, C8221,		
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		C8222, C8224, C8226, C8228, C8230, C8232, C8234, C8236, C8238, C8240, C8242, C8244, C8246, C8248, C8250, C8252, C8254, C8256, C8258, C8260, C8262, C8264, C8266, C8268, C8280, C8282, C8284, C8286, C8288, C8290,	C8223, C8225, C8227, C8229, C8231, C8233, C8235, C8237, C8239, C8241, C8243, C8245, C8247, C8249, C8251, C8253, C8255, C8257, C8259, C8261, C8263, C8265, C8267, C8269, C8281, C8283, C8285, C8287, C8289, C8291,		
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		C8292, C8294, C8296, C8298, C8300, C8302, C8304, C8306, C8308, C8310, C8312, C8314, C8316, C8318, C8330, C8332, C8334, C8336, C8338, C8350, C8352, C8354, C8356, C8358, C8370, C8372, C8374, C8376, C8378, C8380,	C8293, C8295, C8297, C8299, C8301, C8303, C8305, C8307, C8309, C8311, C8313, C8315, C8317, C8319, C8331, C8333, C8335, C8337, C8339, C8351, C8353, C8355, C8357, C8359, C8371, C8373, C8375, C8377, C8379, C8381,		
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		C8382, C8384, C8386, C8388, C8390, C8392, C8394, C8396, C8398, C8400, C8402, C8404, C8406, C8408, C8410, C8412, C8414, C8416, C8418, C8440, C8442, C8444, C8446, C8448, C8460, C8462, C8464, C8466, C8468, C8470,	C8383, C8385, C8387, C8389, C8391, C8393, C8395, C8397, C8399, C8401, C8403, C8405, C8407, C8409, C8411, C8413, C8415, C8417, C8419, C8441, C8443, C8445, C8447, C8449, C8461, C8463, C8465, C8467, C8469, C8471,		
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		C8472, C8474, C8476, C8478, C8490, C8492, C8494, C8496, C8498, C84A0, C84A2, C84A4, C84A6, C84A8, C84Z0, C84Z2, C84Z4, C84Z6, C84Z8, C8510, C8512, C8514, C8516, C8518, C8520, C8522, C8524, C8526, C8528, C8580,	C8473, C8475, C8477, C8479, C8491, C8493, C8495, C8497, C8499, C84A1, C84A3, C84A5, C84A7, C84A9, C84Z1, C84Z3, C84Z5, C84Z7, C84Z9, C8511, C8513, C8515, C8517, C8519, C8521, C8523, C8525, C8527, C8529, C8581,		
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		C8582, C8583, C8584, C8585, C8586, C8587, C8588, C8589, C8590, C8591, C8592, C8593, C8594, C8595, C8596, C8597, C8598, C8599, C860, C861, C862, C863, C864, C865, C866, C880, C882, C883, C884, C888, C889, C9000, C9001, C9002, C9010, C9011, C9012, C9020, C9021, C9022, C9030, C9031, C9032, C960, C962, C9620, C9621, C9622, C9629, C964, C969, C96A, C96Z, D47Z9		
Metastatic Cancer	1960-1991, 20970-20975, 20979, 78951	C770, C771, C772, C773, C774, C775, C778, C779, C7800, C7801, C7802, C781, C782, C7830, C7839, C784, C785, C786, C787, C7880, C7889,	14	21

		C7900, C7901, C7902, C7910, C7911, C7919, C792, C7931, C7932, C7940, C7949, C7951, C7952, C7960, C7961, C7962, C7970, C7971, C7972, C7981, C7982, C7989, C799, C7B00, C7B01, C7B02, C7B03, C7B04, C7B09, C7B1, C7B8, C800, C801, R180		
Solid Tumor w/o Metastasis	1400-1729, 1740-1759, 179-1958, 20900-20924, 20925-2093, 20930-20936, 25801-25803	C000, C001, C002, C003, C004, C005, C006, C008, C009, C01, C020, C021, C022, C023, C024, C028, C029, C030, C031, C039, C040, C041, C048, C049, C050, C051, C052, C058, C059, C060, C061, C062, C0680, C0689, C069, C07, C080, C081, C089, C090, C091, C098, C099, C100, C101,	7	15

		C102, C103, C104, C108, C109, C110, C111, C112, C113, C118, C119, C12, C130, C131, C132, C138, C139, C140, C142, C148, C153, C154, C155, C158, C159, C160, C161, C162, C163, C164, C165, C166, C168, C169, C170, C171, C172, C173, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C19, C20, C210, C211, C212, C218, C220, C221, C222, C223, C224, C227, C228, C229, C23, C240, C241, C248, C249, C250, C251, C252, C253, C254, C257, C258, C259, C260, C261, C269, C300, C301, C310, C311, C312, C313, C318, C319, C320, C321,		
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		C322, C323, C328, C329, C33, C3400, C3401, C3402, C3410, C3411, C3412, C342, C3430, C3431, C3432, C3480, C3481, C3482, C3490, C3491, C3492, C37, C380, C381, C382, C383, C384, C388, C390, C399, C4000, C4001, C4002, C4010, C4011, C4012, C4020, C4021, C4022, C4030, C4031, C4032, C4080, C4081, C4082, C4090, C4091, C4092, C410, C411, C412, C413, C414, C419, C430, C4310, C4311, C43111, C43112, C4312, C43121, C43122, C4320, C4321, C4322, C4330, C4331, C4339, C434, C4351, C4352,		
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		C4359, C4360, C4361, C4362, C4370, C4371, C4372, C438, C439, C450, C451, C452, C457, C470, C4710, C4711, C4712, C4720, C4721, C4722, C473, C474, C475, C476, C478, C479, C480, C481, C482, C488, C490, C4910, C4911, C4912, C4920, C4921, C4922, C493, C494, C495, C496, C498, C499, C49A0, C49A1, C49A2, C49A3, C49A4, C49A5, C49A9, C4A0, C4A10, C4A11, C4A111, C4A112, C4A12, C4A121, C4A122, C4A20, C4A21, C4A22, C4A30, C4A31, C4A39, C4A4, C4A51, C4A52, C4A59, C4A60, C4A61,		
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		C4A62, C4A71, C4A8, C50011, C50019, C50022, C50111, C50119, C50122, C50211, C50219, C50222, C50311, C50319, C50322, C50411, C50419, C50422, C50511, C50519, C50522, C50611, C50619, C50622, C50811, C50819, C50822, C50911, C50919, C50922,	C4A70, C4A72, C4A9, C50012, C50021, C50029, C50112, C50121, C50129, C50212, C50221, C50229, C50312, C50321, C50329, C50412, C50421, C50429, C50512, C50521, C50529, C50612, C50621, C50629, C50812, C50821, C50829, C50912, C50921, C50929,		
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		C510, C511, C512, C518, C519, C52, C530, C531, C538, C539, C540, C541, C542, C543, C548, C549, C55, C561, C562, C569, C5700, C5701, C5702, C5710, C5711, C5712, C5720, C5721, C5722, C573, C574, C577, C578, C579, C58, C600, C601, C602, C608, C609, C61, C6200, C6201, C6202, C6210, C6211, C6212, C6290, C6291, C6292, C6300, C6301, C6302, C6310, C6311, C6312, C632, C637, C638, C639, C641, C642, C649, C651, C652, C659, C661, C662, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681,		
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		C688, C689, C6900, C6901, C6902, C6910, C6911, C6912, C6920, C6921, C6922, C6930, C6931, C6932, C6940, C6941, C6942, C6950, C6951, C6952, C6960, C6961, C6962, C6980, C6981, C6982, C6990, C6991, C6992, C700, C701, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C7220, C7221, C7222, C7230, C7231, C7232, C7240, C7241, C7242, C7250, C7259, C729, C73, C7400, C7401, C7402, C7410, C7411, C7412, C7490, C7491, C7492, C750, C751, C752, C753, C754,		
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		C755, C758, C759, C760, C761, C762, C763, C7640, C7641, C7642, C7650, C7651, C7652, C768, C7A00, C7A010, C7A011, C7A012, C7A019, C7A020, C7A021, C7A022, C7A023, C7A024, C7A025, C7A026, C7A029, C7A090, C7A091, C7A092, C7A093, C7A094, C7A095, C7A096, C7A098, D030, D0310, D0311, D03111, D03112, D0312, D03121, D03122, D0320, D0321, D0322, D0330, D0339, D034, D0351, D0352, D0359, D0360, D0361, D0362, D0370, D0371, D0372, D038, D039, E3121, E3122, E3123		
Rheumatoid Arthritis/Collagen	7010, 7100-7109, 7140-7149, 7200-7209,	L900, L940, L941, L943, M0500,	0	4

Vascular Disease	725, 359.6, 357.1	M05011, M05012, M05019, M05021, M05022, M05029, M05031, M05032, M05039, M05041, M05042, M05049, M05051, M05052, M05059, M05061, M05062, M05069, M05071, M05072, M05079, M0509, M0510, M05111, M05112, M05119, M05121, M05122, M05129, M05131, M05132, M05139, M05141, M05142, M05149, M05151, M05152, M05159, M05161, M05162, M05169, M05171, M05172, M05179, M0519, M0520, M05211, M05212, M05219, M05221, M05222, M05229, M05231, M05232, M05239, M05241, M05242, M05249, M05251, M05252,		
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		M05259, M05262, M05271, M05279, M0530, M05312, M05321, M05329, M05332, M05341, M05349, M05352, M05361, M05369, M05372, M0539, M05411, M05419, M05422, M05431, M05439, M05442, M05451, M05459, M05462, M05471, M05479, M0550, M05512, M05521,	M05261, M05269, M05272, M0529, M05311, M05319, M05322, M05331, M05339, M05342, M05351, M05359, M05362, M05371, M05379, M0540, M05412, M05421, M05429, M05432, M05441, M05449, M05452, M05461, M05469, M05472, M0549, M05511, M05519, M05522,		
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		M05529, M05532, M05541, M05549, M05552, M05561, M05569, M05572, M0559, M05611, M05619, M05622, M05631, M05639, M05642, M05651, M05659, M05662, M05671, M05679, M0570, M05712, M05721, M05729, M05732, M05741, M05749, M05752, M05761, M05769,	M05531, M05539, M05542, M05551, M05559, M05562, M05571, M05579, M0560, M05612, M05621, M05629, M05632, M05641, M05649, M05652, M05661, M05669, M05672, M0569, M05711, M05719, M05722, M05731, M05739, M05742, M05751, M05759, M05762, M05771,		
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		M05772, M0579, M05811, M05819, M05822, M05831, M05839, M05842, M05851, M05859, M05862, M05871, M05879, M059, M06011, M06019, M06022, M06031, M06039, M06042, M06051, M06059, M06062, M06071, M06079, M0609, M0620, M06212, M06221, M06229,	M05779, M0580, M05812, M05821, M05829, M05832, M05841, M05849, M05852, M05861, M05869, M05872, M0589, M0600, M06012, M06021, M06029, M06032, M06041, M06049, M06052, M06061, M06069, M06072, M0608, M061, M06211, M06219, M06222, M06231,		
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		M06232, M06241, M06249, M06252, M06261, M06269, M06272, M0628, M0630, M06312, M06321, M06329, M06332, M06341, M06349, M06352, M06361, M06369, M06372, M0638, M064, M06811, M06819, M06822, M06831, M06839, M06842, M06851, M06859, M06862,	M06239, M06242, M06251, M06259, M06262, M06271, M06279, M0629, M06311, M06319, M06322, M06331, M06339, M06342, M06351, M06359, M06362, M06371, M06379, M0639, M0680, M06812, M06821, M06829, M06832, M06841, M06849, M06852, M06861, M06869,		
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		M06871, M06879, M0689, M0800, M08012, M08021, M08029, M08032, M08041, M08049, M08052, M08061, M08069, M08072, M0808, M081, M08211, M08219, M08222, M08231, M08239, M08242, M08251, M08259, M08262, M08271, M08279, M0829, M0840, M08412,	M06872, M0688, M069, M08011, M08019, M08022, M08031, M08039, M08042, M08051, M08059, M08062, M08071, M08079, M0809, M0820, M08212, M08221, M08229, M08232, M08241, M08249, M08252, M08261, M08269, M08272, M0828, M083, M08411, M08419,		
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		M08421, M08429, M08432, M08441, M08449, M08452, M08461, M08469, M08472, M0848, M08811, M08819, M08822, M08831, M08839, M08842, M08851, M08859, M08862, M08871, M08879, M0889, M08911, M08919, M08922, M08931, M08939, M08942, M08951, M08959,	M08422, M08431, M08439, M08442, M08451, M08459, M08462, M08471, M08479, M0880, M08812, M08821, M08829, M08832, M08841, M08849, M08852, M08861, M08869, M08872, M0888, M0890, M08912, M08921, M08929, M08932, M08941, M08949, M08952, M08961,		
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		M08962, M08971, M08979, M0899, M12011, M12019, M12022, M12031, M12039, M12042, M12051, M12059, M12062, M12071, M12079, M1209, M3210, M3212, M3214, M3219, M328, M329, M3300, M3302, M3309, M3311, M3313, M3320, M3322, M3390, M3392, M3399, M340, M341,	M08969, M08972, M0898, M1200, M12012, M12021, M12029, M12032, M12041, M12049, M12052, M12061, M12069, M12072, M1208, M320, M3211, M3213, M3215, M3301, M3303, M3310, M3312, M3319, M3321, M3329, M3391, M3393,		
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		M342, M3482, M3489, M3500, M3502, M3504, M351, M358, M368, M452, M455, M458, M4601, M4603, M4605, M4607, M4609, M4650, M4652, M4654, M4656, M4658, M4680, M4682, M4684, M4686, M4688, M4690, M4692, M4694,	M3481, M3483, M349, M3501, M3503, M3509, M353, M355, M359, M360, M450, M451, M453, M454, M456, M457, M459, M4600, M4602, M4604, M4606, M4608, M461, M4651, M4653, M4655, M4657, M4659, M4681, M4683, M4685, M4687, M4689, M4691, M4693, M4695,		
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		M4696, M4697, M4698, M4699, M488X1, M488X2, M488X3, M488X4, M488X5, M488X6, M488X7, M488X8, M488X9, M4980, M4981, M4982, M4983, M4984, M4985, M4986, M4987, M4988, M4989		
Coagulopathy	2860-2869, 2871, 2873-2875, 64930-64934, 28984	D65, D66, D67, D680, D681, D682, D68311, D68312, D68318, D6832, D684, D688, D689, D691, D693, D6941, D6942, D6949, D6951, D6959, D696, D7582, O99111, O99112, O99113, O99119, O9912, O9913	11	7
Obesity	2780, 27800, 27801, 27803, 64910-64914, V8530-V8539, V8541-V8545, V8554, 79391	E6601, E6609, E661, E662, E668, E669, O99210, O99211, O99212, O99213, O99214, O99215, R939, Z6830, Z6831,	-5	-3

		Z6832, Z6833, Z6834, Z6835, Z6836, Z6837, Z6838, Z6839, Z6841, Z6842, Z6843, Z6844, Z6845, Z6854		
Weight Loss	260-2639, 78321-78322	E40, E41, E42, E43, E440, E441, E45, E46, E640, R634, R636	9	10
Fluid and Electrolyte Disorders	2760-2769	E860, E861, E869, E870, E871, E872, E873, E874, E875, E876, E8770, E8771, E8779, E878	11	8
Blood Loss Anemias	2800, 64820-64824	D500, O9081, O99011, O99012, O99013, O99019, O9902, O9903	-3	3
Deficiency Anemias	2801-2819, 28521-28529, 2859	D501, D508, D509, D510, D511, D512, D513, D518, D519, D520, D521, D528, D529, D530, D531, D532, D538, D539, D630, D631, D638, D64	-2	9
Alcohol Abuse	2910-2913, 2915, 2918, 29181, 29182, 29189,	F1010, F1011, F10120, F10121,	-1	6

	2919, 30300-30393, 30500-30503	F10129, F10150, F10159, F10181, F10188, F1020, F10220, F10229, F10231, F10239, F10250, F10259, F1027, F10281, F10288, F10921, F10950, F10959, F1097, F10981, F10988, F1099	F1014, F10151, F10180, F10182, F1019, F1021, F10221, F10230, F10232, F1024, F10251, F1026, F10280, F10282, F1029, F1094, F10951, F1096, F10980, F10982,		
Drug Abuse	2920, 29282-29289, 2929, 30400-30493, 30520-30593, 64830-64834, 292.81, 292.11, 292.12, 292.2	F1110, F11120, F11122, F1114, F11151, F11181, F11188, F1120, F11220,	F1111, F11121, F11129, F11150, F11159, F11182, F1119, F1121, F11221,	-7	14

		F11222, F1123, F11250, F11259, F11282, F1129, F1210, F1211, F12120, F12122, F12150, F12159, F12188, F1220, F12220, F12222, F1223, F12251, F12280, F1229, F1310, F1311, F13120, F13129, F13150, F13159, F13181, F13188, F1320, F13220, F13229, F13231, F13239, F13250,	F11229, F1124, F11251, F11281, F11288, F12121, F12129, F12151, F12180, F1219, F1221, F12221, F12229, F12250, F12259, F12288, F13121, F1314, F13151, F13180, F13182, F1319, F1321, F13221, F13230, F13232, F1324, F13251,		
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		F13259, F1327, F13281, F13288, F1410, F14120, F14122, F1414, F14151, F14180, F14182, F1419, F1420, F1421, F14220, F14222, F1423, F14250, F14259, F14281, F14288, F1510, F15120, F15122, F1514, F15151, F15180, F15182, F1519, F1520, F1521, F15220, F15222, F1523,	F1326, F13280, F13282, F1329, F1411, F14121, F14129, F14150, F14159, F14181, F14188, F14221, F14229, F1424, F14251, F14280, F14282, F1429, F1511, F15121, F15129, F15150, F15159, F15181, F15188, F15221, F15229, F1524,		
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		F15250, F15259, F15281, F15288, F1610, F16120, F16122, F1614, F16151, F16180, F16188, F1620, F16220, F16229, F16250, F16259, F16283, F1629, F1810, F1811, F18120, F18129, F18150, F18159, F18180, F1819, F1820, F1821, F18220, F18229, F18250, F18259, F18280, F1829, F1910, F1911,	F15251, F15280, F15282, F1529, F1611, F16121, F16129, F16150, F16159, F16183, F1619, F1621, F16221, F1624, F16251, F16280, F16288, F18121, F1814, F18151, F1817, F18188, F1821, F18221, F1824, F18251, F1827, F18288,		
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			F19120, F19121, F19122, F19129, F1914, F19150, F19151, F19159, F1916, F1917, F19180, F19181, F19182, F19188, F1919, F1920, F1921, F19220, F19221, F19222, F19229, F19230, F19231, F19232, F19239, F1924, F19250, F19251, F19259, F1926, F1927, F19280, F19281, F19282, F19288, F1929, F550, F551, F552, F553, F554, F558, O99320, O99321, O99322, O99323, O99324, O99325		
Psychosis	29500-2989, 300.16, 299.10, 299.11		F200, F201, F202, F203, F205, F2081, F2089, F209, F22, F23, F24, F250, F251, F258, F259, F28, F29, F3010, F3011, F3012, F3013, F302, F303,	-5	10

		F304, F308, F309, F310, F3110, F3111, F3112, F3113, F312, F3130, F3131, F3132, F314, F315, F3160, F3161, F3162, F3163, F3164, F3170, F3171, F3172, F3173, F3174, F3175, F3176, F3177, F3178, F3181, F3189, F319, F324, F325, F3340, F3341, F3342, F348, F3481, F3489, F349, F39, F4489, F843		
Depression	296.21, 296.22, 296.23, 296.24, 298.0, 298.82, 625.4, 262.20, 311, 296.31, 296.32, 296.33, 296.34, 296.99, 296.30, 300.4, 301.12, 309.0, 309.1	F320, F321, F322, F323, F328, F3281, F3289, F329, F330, F331, F332, F333, F338, F339, F341, F4321	-5	4