**Table S1. Diagnosis codes according International Classification of Diseases version 9 (ICD-9) and 10 (ICD-10), and International Classification of Primary Care (ICPC-2) used to identify diagnoses**

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| **Diagnosis** | **ICD-9** | **ICD-10** | **ICPC-2** |
| Acute alcohol intoxication | 303.0\*  571.1\*  980.0\*  E860.0\* to E860.1\* | F10.0\*  T51.0\*  X45.\*  X65.\*  Y91.0\* to Y91.3 | P16 |
| Acute myocardial infarction | 410.\*  412.\* | I21.\* to I24.9\*  I25.2\* | K75 |
| Acute renal failure | 584.\* | N17.\* | - |
| Alcoholism | 303.9\*  305.0\*  571.0\*  571.2\* to 571.3\* | F10.2\* G31.2\*  K70.\*  Y91.9\*  Z72.1\* | P15 |
| Arterial hypertension | 362.11  401.\* to 405.\*  437.2\* | I10.\* to I15.\* H35.0\* | K85 to K87 |
| Cerebrovascular disease | 430.\* to 438.\* | G45.\* to G46.\*  I60.\* to I67.1\* | K90  K91 |
| Chronic obstructive pulmonary disease | 496.\* | J43.\* to J44.\* | R95 |
| Chronic respiratory disease | 490.\* to 496.\*  500.\* to 506.\*  508.1\*  515.\* to 516.\*  518.8\* | J40.\* to J47.\* J60.\* to J67.\* J70.3\*  M05.1\* | R79  R96 |
| Cocaine use | 304.2\*  305.6\*  970.81 | F14.\* | - |
| Connective tissue disease | 710.\*  714.\*  725.\* | M05.\* to M06.\*  M30.\* to M36.0\* | L88 |
| Cyanide, ethylene glycol, diethylene glycol, propylene glycol, or methanol intoxication | 980.1\*  982.8\*  989.0\*  E860.2\*  E862.4\*  E950.9\* | T51.1\*  T52.3\*  T57.3\*  T65.0\* | - |
| Decompensated liver disease | 567.23  572.2\*  789.5\* | R18.\* | - |
| Dehydration | 276.51 | E86.\* | T11 |
| Dementia | 290.\*  294.1\*  331.0\* to 331.2\* | F00.\* to F03.\*  F05.1\*  G30.\*  G31.1\* | P05  P70 |
| Diabetes mellitus type 1 | 250.01  250.03  250.21  250.23  250.31  250.33  250.41  250.43  250.51  250.53  250.61  250.63  250.71  250.73  250.81  250.83  250.91  250.93 | E10.\* | T89 |
| Diabetes mellitus type 2 | 250.00  250.02  250.20  250.22  250.30  250.32  250.40  250.42  250.50  250.52  250.60  250.62  250.70  250.72  250.80  250.82  250.90  250.92 | E11.\* | T90 |
| Diabetes with complications (and target organs complications) | 250.40  250.42  250.50  250.52  250.60  250.62  250.70  250.72  250.80  250.82  250.90  250.92  357.2\*  362.01 to 362.07  366.41 | E11.0\* to E11.8\*  G59.0\*  H28.0\*  H36.0\*  M14.2\*  N08.3\* | - |
| Diabetic ketoacidosis | 250.1\* | - | - |
| Dyslipidemia | 272.0\* to 272.4\* | E78.0\* to E78.5\* | T93 |
| Gastroduodenal ulcer | 531.\* to 534.\* | K25.\* to K28.\* | D85  D86 |
| Gastroenteritis, vomiting or diarrhea | 003.0\*  009.0\* to 009.3\*  558.\*  564.3\* to 564.5\*  787.01  787.03 to 787.04  787.91 | A00.\* to A09.\* F50.5\*  K52.\*  K58.0\*  K59.1\*  K91.0.\*  R11.\* | D10  D11  D70  D73 |
| Generalized seizures | 345.1\* to 345.5\*  780.3\* | G40.\* to G41.\*  R56.8 | N07 |
| Heart failure | 398.91  402.01  402.11  402.91  404.1\*  404.3\*  425.\*  428.\*  429.4\* | I09.81 I11.0\* I13.0\*  I13.2  I42.\*  I50.\*  I97.13 | K77 |
| Hemiplegia | 342.\*  438.2\* | G81.\* | N18 |
| Human immunodeficiency virus disease | 042.\*  V08.\*  795.71 | B20.\* B21.\* B22.\* B23.\* B24.\*  R75.\* Z21.\* | B90 |
| Malignancy (excluding cutaneous malignacies other than melanoma; included pheochromocytoma) | 141.\* to 172.\*  174.\* to 209.36  209.7\*  230.\*  233.\* to 238.1\*  238.3\* to 239.1\*  239.3\* to 239.9\*  258.01 to 258.03  511.81  789.51  V10.\*  V71.1\* | C01.\* to C43.9\* C45.\* to C97.\*  D00.\* to D03.\*  D05.\* to D09.\*  D37.\* to D48.4\* D48.6\* to D48.9\* | A79  B72 to B74  D74 to D77 F74  H75 K72 L71 N74 N76 R84 R85 R92 T71 T73  U75 to U77 U79  W72  X75 to X77 X81  Y77 to Y78 |
| Mild liver disease | 070.1\*  571.0\* to 571.1\*  571.3\*  571.8\* to 571.9\*  573.1\* to 573.2\* | B15.9\*  K70.0\* to K70.2\* K70.9\*  K74.0\* to K74.1\* K76.0\* to K76.1\* K76.8\* to K76.9\* | D23 |
| Moderate-severe liver disease | 070.0\*  070.2\* to 070.7\*  456.0\* to 456.2\*  567.23  570.\*  571.2\*  571.4\* to 571.6\*  572.0\* to 573.\*  789.5\* | B15.0  B16.\* to B19.0\* I85.\*  K70.3\* to K70.4\* K71.\* to K73.\* K74.2\* to K75.\* K76.3\*  K76.6\* to K76.7\* R18.\* | D97 |
| Organ transplantation | 00.91 to 00.93  07.94  11.60  11.69  33.5\* to 33.6\*  37.51  41.0\*  41.94  46.97  50.5\*  52.8\*  55.6\*  63.53  65.92  83.75  996.8\*  V42.\* V58.44  E878.0\* | Z94.\*  T86.\*  Y83.0\* | - |
| Peripheral arterial disease | 441.\*  443.0\* to 443.81  443.9\* | I70.\* I71.\* I73.\* I79.0\*  Z95.8\* to Z95.9\* | K92 |
| Procedures with use of iodine contrast | 00.60 to 00.66  17.71  37.21 to 37.23  39.50  39.7\*  39.90  44.44  87.02  87.05 to 87.08  87.13 to 87.15  87.21  87.31 to 87.35  87.38  87.5\*  87.66  87.73 to 87.78  87.83 to 87.84  87.91  87.93 to 87.94  88.03 to 88.94  88.13 to 88.15  88.34  88.36  88.4\* to 88.6\* | - | - |
| Respiratory failure | 518.5\*  518.81 to 518.82 | J80.\*  J95.1\* to J95.2\* J96.0 | - |
| Sepsis | 038.\*  785.52  995.91 to 995.92 | A40.\* to A41.\* | - |
| Shock | 785.5\*  995.4\*  995.6\*  994.8\*  639.5\*  669.1\*  998.00 to 998.02  998.09  994.0\*  958.4\* | A48.3\* R57.\* T78.0\* T78.2\* T88.2\* T88.6\* | - |
| Surgery and other procedures with general, spinal or epidural anesthesia | 00.3\* to 00.48  00.50 to 00.58  00.60 to 00.66  00.7\* to 00.9\*  01.\* to 16.\*  17.1\* to 17.6\*  18.\* to 20.\*  21.04 to 21.1\*  21.22 to 21.89  22.\*  23.1\*  25.2\* to 25.9\*  26.2\* to 27.1\*  27.3\* to 28.0\*  28.2\* to 29.0\*  29.2\* to 33.4\*  33.7\* to 35.\*  36.03  36.06 to 36.9\*  37.1\* to 37.4\*  37.52 to 37.91  37.94 to 38.1\*  38.3\* to 38.8\*  39.0\* to 39.91  40.\*  41.1\* to 46.82  46.85 to 46.94  46.97 to 50.4\*  51.\* to 52.7\*  52.9\* to 54.95  55.0\* to 55.5\*  55.7\* to 56.\*  57.1\* to 57.92  57.96 to 58.5\*  58.9\* to 62.7\*  63.\* to 67.0\*  67.2\* to 67.6\*  68.0\*  68.14 to 69.7\*  69.93 to 70.1\*  70.23 to 70.9\*  71.5\* to 71.9\*  74.\*  75.5\* to 75.6\*  75.91 to 75.93  76.\* to 78.\*  79.1\* to 79.3\*  79.5\* to 79.6\*  79.8\* to 83.95  83.99 to 85.0\*  85.2\* to 85.9\*  86.4\* to 86.99 | - | - |
| Thiamine deficiency | 265.\* | E51.\* | - |