

**Supplementary Table S1.** List of diseases and conditions candidate to be tested as predictors of one-year mortality

Diagnostic category	Disease/condition	ICD-9 CM code	ATC code
Infectious and parasitic diseases	HIV infection	042.x-044.x	Zidovudine (AZT) (J05AF01, J05AR01, J05AR04, J05AR05), Didanosine (DDI) (J05AF02), Zalcitabine (DDC) (J05AF03), Pentamidine (P01CX01), Clarithromycin (J01FA09), Rifabutin (J04AB04), Atovaquone (P01AX06)
	Tuberculosis	010.x - 018.x	Anti-tuberculosis antibiotics (J04AB)
Neoplasms	Lymphoma	200.00-202.38, 202.50-203.01, 203.8x, 238.6x, 273.3x, V10.71, V10.72, V10.79	
	Metastatic cancer	196.0x-199.1x	
	Cancer, without metastasis	140.0x-172.9x, 174.0x-175.9x, 179.x-195.8x, V10.0x-V10.9x	
	Malignancy medication		Antineoplastic (L01), Taxol (C07AB05), Interleukins (L03AC), Colony-stimulating factors (L03AA), Antinausea misc, ondansetron (A04)
Endocrine, nutritional and metabolic diseases, and immunity disorders	Diabetes	250.x, 357.2, 362.0	Antidiabetic agents (A10)
	Hypothyroidism	243.x-244.2, 244.8x, 244.9x	Thyroid replacement (H03A), Antithyroid agents (H03B)
	Obesity	278.00-278.01	
	Weight loss	260.0x-263.9	
	Disorders of fluid, electrolyte, and acid-base balance	276.0x-276.9x	
	Gout	274.x	Colchicine (M04AC01), Uric acid inhibitors (M04AA, M04AB)
Diseases of the blood and blood-forming organs	Coagulation defects	286.0x-286.9x, 287.1x, 287.3x-287.5x	
	Anaemias	280.0x, 280.1x-281.9x, 285.9x	Marrow stimulants (L03AA), Erythropoietin (B03XA01)
Mental disorders	Dementia	290.x	
	Psychosis	295.x-298.9x, 299.10-299.11	Butyrophenone derivates (N05AD), Phenothiazines (N05AA, N05AB, N05AC), Antipsychotic misc (N05AX), Tiotixene (N05AF04)
	Depression	300.4x, 301.12, 309.0x, 309.1x, 311.x	Tricyclic antidepressants (N06AA), Monoamine oxidase inhibitors (N04BD, N06AF, N06AG), SSRI, fluoxetine (N06AB03, N06CA03)
	Bipolar disorders	296.0	Lithium (N05AN)
	Alcohol abuse	291.1x, 291.2x, 291.5x, 291.8x, 291.9x, 303.90-303.93, 305.00-305.03, V11.3x	
	Drug addition	292.0x, 292.82-292.89, 292.9x, 304.00-304.93, 305.20-305.93	

	Anxiety medication		Benzodiazepine derivatives (N05BA, N05CD), Meprobamate (N05BC01), Meprobamate combinations (N05BC51), Other anxiolytics (N05BX), Benzodiazepine related drugs (N05CF), Hypnotics and sedatives in combination, excl. barbiturates (N05CX01), Other psychostimulants and nootropics (N06BX)
Diseases of the nervous system	Hemiplegia and hemiparesis Other neurological diseases	342.00-342.12, 342.9x-344.9x 331.9x, 332.0x, 333.4x, 333.5x, 334.0x-335.9x, 340.x, 341.1x-341.9x, 345.00-345.11, 345.40-345.51, 345.80-345.91, 348.1x, 348.3x, 780.3x, 784.3x	
	Glaucoma Epilepsy	365.x 345.x	Ophtalmic miotics (S01E) Anticonvulsants barbiturates and congeners (N03AA), Phenytoin and combinations (N03AB02, N03AB05, N03AB52), Misc anticonvulsants (N03AX) Autononics L-Dopa (N04B), Selegiline (N04BD01)
	Parkinson's disease	332x	
Diseases of the circulatory system	Acute myocardial infarction Heart failure	410.x-412.x 398.91, 402.11, 402.91, 404.11, 404.13, 404.91, 404.93, 428.x	Disopyramide (C01BA93), Vasodilator nitrates (C01DA), Digitalis glycosides (C01AA), Diuretic, loop (C03C), Procainamide (C01BA02), Quinidine (C01BA01, C01BA51, C01BA71)
	Arrhythmia	426.10, 426.11, 426.13, 426.20-426.53, 426.60-426.89, 427.0x, 427.2x, 427.31, 427.60, 427.9x, 785.0x, V45.0x, V53.3x	Class 1 A antiarrhythmics (C01BA), Class 1 C antiarrhythmics (C01BC), Class 1 I antiarrhythmics (C01BD)
	Valvular diseases	093.20-093.24, 394.0x-397.1x, 424.00-424.91, 746.3x-746.6x, V42.2x, V43.3x	
	Vascular diseases	440.0x-440.9x, 441.2x, 441.4x, 441.7x, 441.9x, 443.1x-443.9x, 447.1x, 557.1x, 557.9x, 785.4x, V43.4x	
	Cerebrovascular diseases Hypertension	430.x-438.x 401.x-405.x	ACE inhibitors (C09A, C09B), Alpha blockers (C04AX02, C04AB01, C04AB02, C02CA, C02LE), Antihypertensive vasodilators (C04, C01D, C07E), Beta-adrenergic blockers (C07), Calcium channel blockers (C08), Clonidine (C02AC01, C02LC01, C02LC51), Diuretics, thiazides (C03A, C07B, C07D), Ganglionic blockers (C02B), Guanethidine (C02CC02, C02LF01), Methyl dopa (C02AB, C02LB), Rauwolfia alkaloids (C02AA, C02LA)
	Coronary and peripheral vascular disease		Anticoagulants (vitamin K antagonists, Factor Xa inhibitors, direct thrombin inhibitors, other) (B01AA, B01AB, B01AF, B01AE, B01AX01, B01AD10, B01AD12), Pentoxifylline (C04AD03), Ticlopidine (B01AC05)

Diseases of the respiratory system	Hyperlipidemia		Lipid lowering agents (C10) Beta agonist bronchodilators (R03AA, R03AB, R03AC), Xanthines (R03DA, R03DB, R03DA20), Cromolyn (R01AC01, R03BC01, R01AC51, S01GX01, S01GX51), Inhaled corticosteroids (R03BA) Mucolytics (R05CB, R05FB01, R05FA01), Pancreatic enzymes (A09AA02)
	Chronic pulmonary diseases	490.x-492.8x, 493.00-493.91, 494.x, 495.0x-505.x, 506.4x	
	Cystic fibrosis	277.0	
Diseases of the digestive system	Peptic ulcer	531.x-534.x	Histamine H2 blockers (A02BA), Prostaglandin, Misoprostil (A02BB), Proton pump inhibitors, Omeprazole (A02BC01, A02BD05, A02BD01) Ammonia detoxicants (A06AD)
	Liver diseases	070.32, 070.33, 070.54, 456.0x, 456.1x, 456.20, 456.21, 571.0x, 571.2x, 571.3x, 571.40-571.49, 571.5x, 571.6x, 571.8x, 571.9x, 572.3x, 572.8x, V42.7x	
	Crohn's and ulcerative colitis	555.x-556.x	
Diseases of the genitourinary system	Kidney diseases	582.x, 583.0, 583.1, 583.4, 583.7, 583.8, 584.6, 585.x, 586.x, 588.x	Sulfasalazine (A07EC01), Olsalazine (A07EC03), Mesalazine (A07EC02) Potassium removing resins, Kayexalate (V01AE01)
	Kidney dialysis	V56.0	
	Kidney transplantation	55.6 (procedure)	
Diseases of the musculoskeletal system and connective tissue	Rheumatologic conditions	390.x, 391.x, 714.0x, 714.1, 714.3, 714.9x, 720.0x-720.9x, 725.x	Systemic corticosteroids (M01BA), Gold salts (M01CB), Hydroxychloroquin (P01BA02)
Other conditions	Transplantation		Cyclosporine-A (L04AD01), Azathioprine (L04AX01) Narcotics (N02), NSAIDs (M01A)
	Pain and inflammation		

ICD-9 CM: International Classification of Diseases, Ninth Revision, Clinical Modification; primary or secondary diagnosis fields

ATC: Anatomical Therapeutic Chemical classification system