

Table S1. ICD-9 code for patient characteristics, treatments, and outcomes.

Characteristics	
Smoking	305.1, 649.0, 989.84
Alcohol drinking	291.0, 291.1, 291.2, 291.3, 291.4, 291.5, 291.8, 291.81, 291.82, 291.89, 303.00-303.03, 303.90-303.93, 305.00-305.03
Obesity	278.0, 278.00, 278.01, 649.10– 649.14, 793.91, V85.30–V85.4, V85.54
Diabetes Mellitus	249.00–249.31, 250.00–250.33, 648.00–648.04, 249.40–249.91, 250.40–250.93, 775.1
Hypertension	401.1, 401.9, 642.00–642.24, 401.0, 402.00– 405.99, 437.2, 642.10–624.24, 642.70–642.94
Dyslipidemia	272.xx
Hypothyroidism	243.xx, 244.xx
Congestive heart failure	428.xx
Chronic kidney disease	585.1, 585.2, 585.3, 585.3, 585.4, 585.5, 585.6, 585.9
Coronary artery disease	412.xx, 413.xx, 414.xx
Atrial flutter/fibrillation	427.31, 427.32
Complication	
Rhabdomyolysis	728.88
Hyponatremia	276.1
Hypernatremia	276.0
Hypokalemia	276.8
Hyperkalemia	276.7
Hypocalcemia	275.41
Hypercalcemia	275.42
Hypo/hypermagnesemia	275.2
Hypo/hyperphosphatemia	275.3
Metabolic acidosis	276.2
Metabolic alkalosis	276.3
Gastrointestinal bleeding	578.xx
Sepsis	038.0, 038.10, 038.11, 038.19, 038.2, 038.3, 038.4, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 790.7, 117.9, 112.5, 115.04, 115.14, 115.94, 112.81, 112.83, 003.1, 003.21, 036.2, 036.3, 036.0, 036.1, 036.42, 020.2, 022.3, 098.89, 098.84, 098.82, 995.92, 785.52
Ventricular arrhythmia /Cardiac arrest	427.1, 427.41, 427.5
Acute myocardial infarction	410.xx
Treatment	
Invasive mechanical ventilation	96.70-96.73
Blood component transfusion	99.00-99.07
Renal replacement therapy	39.95

Organ Failure	Description	ICD-9CM
	Acute respiratory failure	518.81
	Other pulmonary insufficiency, not elsewhere classified. Includes - acute respiratory distress, acute respiratory insufficiency, adult respiratory distress syndrome NEC	518.82
Respiratory	Acute respiratory distress syndrome after shock or trauma	518.85
	Respiratory distress NOS	786.09
	Respiratory arrest	799.1
	Ventilator management	96.7, 96.70, 96.71, 96.72

	Shock without mention of trauma	785.5
	Shock unspecified	785.50
Cardiovascular	Other shock without trauma (includes hypovolemic Shock)	785.59
	Cardiogenic shock	785.51
	Septic shock	785.52
	Hypotension NOS	458.8, 458.9, 796.3
Renal	Acute kidney injury	584, 584.5, 584.6, 584.7, 584.8, 584.9
	Acute hepatic failure or necrosis	570
Hepatic	Hepatic encephalopathy	572.2
	Hepatitis unspecified	573.3
	Hepatic infarction	573.4
	Defibrination syndrome	286.6
Hematologic	Acquired coagulation factor deficiency	286.7
	Other coagulation defect	286.9
	Thrombocytopenia - secondary or unspecified	287.49, 287.5
Metabolic	Acidosis – metabolic or lactic	276.2
	Transient organic psychotic conditions	293, 293.0, 293.1, 293.8, 293.81, 293.82, 293.83, 293.84, 293.89, 293.9
	Anoxic brain injury	348.1
Neurologic	Acute encephalopathy	348.3, 348.30, 348.31, 348.39
	Coma	780.01
	Altered consciousness - unspecified	780.09
	Electroencephalogram	89.14
	Convulsion	780.39