
Table e-1. ICD-9-CM Codes Used To Define Sepsis and Organ Dysfunction

ICD-9-CM codes for sepsis as defined by Dombrovskiy

038 Septicemia
038.0 Streptococcal septicemia
038.1 Staphylococcal septicemia
038.2 Pneumococcal septicemia
038.3 Septicemia due to anaerobes
038.4 Septicemia due to other gram-negative organisms
038.8 Other specified septicemias
038.9 Unspecified septicemia
995.92 Severe sepsis
995.91 Inflammatory response due to infection without organ dysfunction
003.1 *Salmonella* septicemia
020.2 Septicemic plague
022.3 Anthrax septicemia
036.2 Meningococcal septicemia
036.3 Waterhouse-Friderichsen syndrome
054.5 Herpetic septicemia
098.89 Gonococemia
112.5 Systemic candidiasis
785.52 Septic shock

ICD-9-CM codes for organ dysfunction

Respiratory

518.5 Pulmonary insufficiency after trauma, shock, or surgery
518.81 Acute respiratory failure
518.82 ARDS
518.84 Acute and chronic respiratory failure
518.85 ARDS after trauma, shock, or surgery
786.09 Respiratory abnormality not otherwise specified
799.1 Respiratory arrest
96.7 Continuous mechanical ventilation unspecified duration
96.71 Continuous mechanical ventilation <96 h
96.72 Continuous mechanical ventilation 96+ h

Cardiovascular

427.5 Cardiac arrest
458.0 Hypotension (458.2, 458.8, and 458.9)
785.50 Shock not otherwise specified
785.51 Shock, cardiogenic
785.52 Septic shock
785.59 Shock without trauma
796.3 Low blood pressure, nonspecific

Renal

580 Acute glomerulonephritis (580.4, 580.0, 580.81, 580.89, and 580.9)
584 Acute renal failure (includes 584.5, 584.6, 584.7, 584.8, and 584.9)

Hepatic

570 Acute necrosis of liver
572.2 Hepatic coma
573.3 Hepatitis, unspecified; not due to virus, congestion, or infarction

Hematologic

286.6 Purpura fulminans
286.9 Coagulopathy
287.3 Primary thrombocytopenia
287.4 Secondary thrombocytopenia
287.5 Thrombocytopenia, unspecified

Metabolic

276.2 Acidosis, metabolic or lactic

Neurologic

293.0 Acute delirium
293.1 Subacute delirium
293.9 Transient organic mental disorder not otherwise specified
348.1 Anoxic brain injury
348.3 Encephalopathy, unspecified
348.31 Septic encephalopathy
348.39 Other encephalopathy
780.01 Coma
780.09 Stupor

Other

995.92 Severe sepsis (sepsis with acute organ dysfunction)

Table e-2. Distribution of ICD-9-CM Codes 435.x Among Patients Diagnosed with Seizure

Code	Patients with Sepsis (N = 30,503)	Patients without Sepsis (N = 696,924)
345.9x	82.7%	81.8%
345.3x	6.2%	3.0%
345.1x	4.6%	6.5%
345.8x	2.8%	3.1%
345.5x	1.9%	2.7%
345.4x	0.8%	1.6%
345.7x	0.4%	0.2%
345.0x	0.4%	0.9%
345.2x	<0.1%	0.1%
345.6x	<0.1%	<0.1%