

Quality Transparency Dashboard

Sepsis Mortality Calculation

Quality Transparency Dashboard Sepsis Mortality Calculation (Update Dec 2021)

How does HQI calculate sepsis mortality? (ICD-10-CM)

Description:

In-hospital mortality rate among acute care discharges meeting the modified Dombrovskiy Method proxy case definition for sepsis. While sepsis and septic shock are proxy-diagnosed per the Third International Consensus Definitions for Sepsis and Septic Shock (SEP-3) based on the presence at discharge of a combination of ICD-10-CM codes, it is not strictly the identified cause of death.

Methodology:

The mortality rate calculation via the modified Dombrovskiy Method for sepsis case identification follows this process:

- 1. Identify all inpatient discharges with a diagnosis code (in any position) for septicemia or sepsis
- 2. Identify all inpatient discharges with a diagnosis code (in any position) for organ dysfunction
- 3. Categorize inpatient discharges with a code in both #1 and #2 as sepsis cases
- 4. Determine the percentage of sepsis cases categorized in #3 who received acute care (Type of Care = "1") and were deceased at discharge (Disposition of Patient = "20")

Denominator:

Acute-care inpatient discharges meeting the SEP-3 proxy sepsis case definition during the measurement timeframe.

Numerator:

Acute-care inpatient discharges meeting the SEP-3 proxy sepsis case definition during the measurement timeframe with a discharge disposition of "Expired."

ICD-10-CM CODES TO IDENTIFY SEPTICEMIA OR SEPSIS

Code	Code Description
A02.1	Salmonella sepsis
A20.7	Septicemic plague
A21.7	Generalized tularemia
A22.7	Anthrax sepsis
A26.7	Erysipelothrix sepsis

A32.7	Code Description Listerial sepsis Waterhouse-Friderichsen syndrome Acute meningococcemia
	Waterhouse-Friderichsen syndrome
A39.1	•
	Acute meningococcemia
A39.2	
A39.3	Chronic meningococcemia
A39.4	Meningococcemia, unspecified
A40.x	Streptococcal sepsis
A41.x	Other sepsis
A42.7	Actinomycotic sepsis
A54.86	Gonococcal sepsis
B00.7	Disseminated herpesviral disease
B37.7	Candidal sepsis
126.01	Septic pulmonary embolism with acute cor pulmonale
126.90	Septic pulmonary embolism without acute cor pulmonale
176	Septic arterial embolism
003.37	Sepsis following incomplete spontaneous abortion
O03.87	Sepsis following complete or unsp spontaneous abortion
004.87	Sepsis following (induced) termination of pregnancy
O07.37	Sepsis following failed attempted termination of pregnancy
008.82	Sepsis following ectopic and molar pregnancy
085	Puerperal sepsis
086.04	Sepsis following an obstetrical procedure
O86.09	Sepsis following an obstetrical procedure other surgical site
O86.81	Puerperal septic thrombophlebitis
O88.3x	Obstetric pyemic and septic embolism
P36.x	Bacterial sepsis of newborn
R65.2x	Severe Sepsis
T81.12xx	Postprocedural septic shock
T81.44xx	Sepsis following a procedure

ICD-10-CM CODES TO IDENTIFY ORGAN DYSFUNCTION

Code	Code Description
A39.1	Waterhouse-Friderichsen syndrome
D65	Disseminated intravascular coagulation [defibrination syndrome]
D69.59	Other secondary thrombocytopenia

Code	Code Description
D69.6	Thrombocytopenia, unspecified
D69.8	Other specified hemorrhagic conditions
D69.9	Hemorrhagic condition, unspecified
E87.2	Acidosis
E87.4	Mixed disorder of acid-base balance
F05	Delirium due to known physiological condition
F06.0	Psychotic disorder with hallucinations due to known physiological condition
F06.1	Catatonic disorder due to known physiological condition
F06.2	Psychotic disorder with delusions due to known physiological condition
G62.81	Critical illness polyneuropathy
G72.81	Critical illness myopathy
G93.4x	Other and unspecified encephalopathy
G93.6	Cerebral edema
G93.82	Brain death
G93.9	Disorder of brain, unspecified
G96.81	Intracranial hypotension
G96.810	Intracranial hypotension, unspecified
G96.811	Intracranial hypotension, spontaneous
G96.819	Other intracranial hypotension
G96.89	Other specified disorders of central nervous system
146.8	Cardiac arrest due to other underlying condition
146.9	Cardiac arrest, cause unspecified
195.1	Orthostatic hypotension
195.89	Other hypotension
195.9	Hypotension, unspecified
J80	Acute respiratory distress syndrome
J96.0x	Acute respiratory failure
J96.2x	Acute and chronic respiratory failure
J96.9x	Respiratory failure, unspecified
J98.01	Acute bronchospasm
J98.9	Respiratory disorder, unspecified
J99	Respiratory disorders in diseases classified elsewhere
K59.81	Ogilvie syndrome

Code Code Description K72.0x Acute and subacute hepatic failure K72.9x Hepatic failure, unspecified K76.2 Central hemorrhagic necrosis of liver K76.3 Infarction of liver K76.7 Hepatorenal syndrome M35.81 Multisystem inflammatory syndrome M17.x Acute kidney failure N19 Unspecified kidney failure R00.0 Tachycardia, unspecified R00.1 Bradycardia, unspecified R00.1 Dyspnea unspecified R06.0 Dyspnea unspecified R06.0.0 Dyspnea unspecified R06.03 Acute respiratory distress R06.09 Other forms of dyspnea R06.82 Tachypnea, not elsewhere classified R06.89 Other abnormalities of breathing R09.02 Hypoxemia R09.0 Respiratory arrest R40.0 Somnolence R40.1 Stupor R40.20 Unspecified coma R40.211x Coma scale, eyes open, to pain R40.21x Coma scale, eyes open, to sound R40.21x Coma scale, best verbal response, incomprehensible words R40.22x Coma scale, best verbal response, inappropriate words R40.22x Coma scale, best words response, confused conversation R40.22x Coma scale, best motor response, extension		
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R40.231x Coma scale, best motor response, none R40.232x Coma scale, best motor response, extension	R40.223x	Coma scale, best verbal response, inappropriate words
R40.232x Coma scale, best motor response, extension	R40.224x	Coma scale, best verbal response, confused conversation
<u> </u>	R40.231x	Coma scale, best motor response, none
D40 222y Completely best motor response abnormal	R40.232x	Coma scale, best motor response, extension
K40.255X Coma scale, best motor response, abnormal	R40.233x	Coma scale, best motor response, abnormal
R40.234x Coma scale, best motor response, flexion withdrawal	R40.234x	Coma scale, best motor response, flexion withdrawal

Code	Code Description	
R40.235x	Coma scale, best motor response, localizes pain	
R40.242x	Glasgow coma scale score 9-12	
R40.243x	Glasgow coma scale score 3-8	
R40.244x	Other coma, without documented Glasgow coma scale score, or with partial score reported	
R40.3	Persistent vegetative state	
R57.x	Shock, not elsewhere classified	
R65.2x	Severe sepsis	
T81.12xx	Postprocedural septic shock	