Inpatient Quality Indicator 20 (IQI 20) Pneumonia Mortality Rate
July 2021
Hospital-Level Indicator
Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

In-hospital deaths per 1,000 hospital discharges with a principal diagnosis of pneumonia or a principal diagnosis of sepsis with a secondary diagnosis of pneumonia that is present on admission, for patients ages 18 years and older. Excludes cases with severe sepsis that is present on admission, transfers to another hospital, cases admitted from a hospice facility, and obstetric discharges.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report in-hospital deaths per 1,000 hospital discharges.]

NUMERATOR

Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

DENOMINATOR

Discharges, for patients ages 18 years and older, with either:
• a principal ICD-10-CM diagnosis code for pneumonia (**PNEUMD***) or
• a secondary ICD-10-CM diagnosis code for pneumonia (**PNEUMD***) that is present of admission, when the principal ICD-10-CM diagnosis code is for sepsis without severe sepsis (**SEPPNEUD***)

DENOMINATOR EXCLUSIONS

Exclude cases:

• with any secondary listed ICD-10-CM diagnosis code for severe sepsis that is present on admission (*SEVSEPD**)

• transferring to another short-term hospital (DISP=2)

• admitted from a hospice facility (PointOFOriginUB04=F)

• MDC 14 (pregnancy, childbirth, and puerperium)

• MDC 15 (newborns and other neonates with conditions originating in perinatal period)

• with an ungroupable DRG (DRG=999)

• with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

* See below for code list

Pneumonia diagnosis codes: (PNEUMD)

A481	Legionnaires' disease	J1520	Pneumonia due to staphylococcus, unspecified
J09X1	Influenza due to identified novel influenza A virus with pneumonia	J15211	Pneumonia due to methicillin susceptible staphylococcus aureus
J1000	Influenza due to other identified influenza virus with unspecified type of pneumonia	J15212	Pneumonia due to methicillin resistant staphylococcus aureus
J1001	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	J1529	Pneumonia due to other staphylococcus
J1008	Influenza due to other identified influenza virus with other specified pneumonia	J153	Pneumonia due to streptococcus, group B
J1100	Influenza due to unidentified influenza virus with unspecified type of pneumonia	J154	Pneumonia due to other streptococci
J1108	Influenza due to unidentified influenza virus with specified pneumonia	J155	Pneumonia due to escherichia coli
J120	Adenoviral pneumonia	J156	Pneumonia due to other gram-negative bacteria
J121	Respiratory syncytial virus pneumonia	J157	Pneumonia due to mycoplasma pneumoniae
J122	Parainfluenza virus pneumonia	J158	Pneumonia due to other specified bacteria
J123	Human metapneumovirus pneumonia	J159	Unspecified bacterial pneumonia
J1281	Pneumonia due to SARS-associated coronavirus	J160	Chlamydial pneumonia
J1289	Other viral pneumonia	J168	Pneumonia due to other specified infectious organisms
J129	Viral pneumonia, unspecified	J180	Bronchopneumonia, unspecified organism
J13	Pneumonia due to streptococcus pneumoniae	J181	Lobar pneumonia, unspecified organism
J14	Pneumonia due to hemophilus influenzae	J188	Other pneumonia, unspecified organism
J150	Pneumonia due to klebsiella pneumoniae	J189	Pneumonia, unspecified organism
J151	Pneumonia due to pseudomonas	J690	Pneumonitis due to inhalation of food and vomit

Sepsis without severe sepsis diagnosis codes: (SEPPNEUD)

A021	Salmonella sepsis	A4150	Gram-Negative sepsis, unspecified
A227	Anthrax sepsis	A4151	Sepsis due to escherichia coli [E. coli]
A267	Erysipelothrix sepsis	A4152	Sepsis due to pseudomonas
A327	Listerial sepsis	A4153	Sepsis due to serratia
A400	Sepsis due to streptococcus, group A	A4159	Other gram-negative Sepsis
A401	Sepsis due to streptococcus, group B	A4181	Sepsis due to enterococcus
A403	Sepsis due to streptococcus pneumoniae	A4189	Other specified Sepsis
A408	Other streptococcal sepsis	A419	Sepsis, unspecified organism
A409	Streptococcal sepsis, unspecified	A427	Actinomycotic Sepsis
A4101	Sepsis due to methicillin susceptible staphylococcus aureus	A5486	Gonococcal Sepsis
A4102	Sepsis due to methicillin resistant staphylococcus aureus	B377	Candidal Sepsis
A411	Sepsis due to other specified staphylococcus	T8144XA	Sepsis following a procedure, initial encounter
A412	Sepsis due to unspecified staphylococcus	T8144XD	Sepsis following a procedure, subsequent encounter
A413	Sepsis due to hemophilus influenzae	T8144XS	Sepsis following a procedure, sequela
A414	Sepsis due to anaerobes		

Severe sepsis diagnosis codes: (SEVSEPD)

R6520 Severe Sepsis without septic shock R6521 Severe Sepsis with septic shock