

# Inpatient Quality Indicator 20 (IQI 20) Pneumonia Mortality Rate

## July 2024

### Hospital-Level Indicator

#### Type of Score: Rate

#### Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

[qualityindicators.ahrq.gov](https://qualityindicators.ahrq.gov)

#### 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 present on admission, for patients ages 18 years and older. Excludes discharges with severe sepsis present on admission, transfers to another hospital, discharges 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 discharges 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 on admission, when the principal ICD-10-CM diagnosis code is for sepsis without severe sepsis (**SEPPNEUD\***)

## DENOMINATOR EXCLUSIONS

Exclude discharges:

- 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)
- with a principal ICD-10-CM diagnosis code assigned to MDC 14 Pregnancy, Childbirth & the Puerperium (***Appendix B: MDC14PRINDX***)
- with a principal ICD-10-CM diagnosis code assigned to MDC 15 Newborns & Other Neonates with Conditions Originating in Perinatal Period (***Appendix B: MDC15PRINDX***)
- 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)
- with missing MDC (MDC=missing) when user indicates that MDC is provided

### [Appendix B — MDC 14 and 15 Principal Diagnosis Codes](#)

\* See below for code list

***Pneumonia diagnosis codes: (PNEUMD)***

A481	Legionnaires' disease	J15211	Pneumonia due to methicillin susceptible staphylococcus aureus
J09X1	Influenza due to identified novel influenza A virus with pneumonia	J15212	Pneumonia due to methicillin resistant staphylococcus aureus
J1000	Influenza due to other identified influenza virus with unspecified type of pneumonia	J1529	Pneumonia due to other staphylococcus
J1001	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	J153	Pneumonia due to streptococcus, group B
J1008	Influenza due to other identified influenza virus with other specified pneumonia	J154	Pneumonia due to other streptococci
J1100	Influenza due to unidentified influenza virus with unspecified type of pneumonia	J155	Pneumonia due to escherichia coli
J1108	Influenza due to unidentified influenza virus with specified pneumonia	J156	Pneumonia due to other gram-negative bacteria
J120	Adenoviral pneumonia	J1561	Pneumonia due to acinetobacter baumannii
J121	Respiratory syncytial virus pneumonia	J1569	Pneumonia due to other gram-negative bacteria
J122	Parainfluenza virus pneumonia	J157	Pneumonia due to mycoplasma pneumoniae
J123	Human metapneumovirus pneumonia	J158	Pneumonia due to other specified bacteria
J1281	Pneumonia due to SARS-associated coronavirus	J159	Unspecified bacterial pneumonia
J1282	Pneumonia due to coronavirus disease 2019	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
J1520	Pneumonia due to staphylococcus, unspecified		

***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	A4154	Sepsis due to acinetobacter baumannii
A401	Sepsis due to streptococcus, group B	A4159	Other gram-negative Sepsis
A403	Sepsis due to streptococcus pneumoniae	A4181	Sepsis due to enterococcus
A408	Other streptococcal sepsis	A4189	Other specified Sepsis
A409	Streptococcal sepsis, unspecified	A419	Sepsis, unspecified organism
A4101	Sepsis due to methicillin susceptible staphylococcus aureus	A427	Actinomycotic Sepsis
A4102	Sepsis due to methicillin resistant staphylococcus aureus	A5486	Gonococcal Sepsis
A411	Sepsis due to other specified staphylococcus	B377	Candidal Sepsis
A412	Sepsis due to unspecified staphylococcus	T8144XA	Sepsis following a procedure, initial encounter
A413	Sepsis due to hemophilus influenzae	T8144XD	Sepsis following a procedure, subsequent encounter
A414	Sepsis due to anaerobes	T8144XS	Sepsis following a procedure, sequela

*Severe sepsis diagnosis codes: (SEVSEPD)*

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