
CBE ID

0147

Title

Initial antibiotic selection for community-acquired pneumonia (CAP) in immunocompetent patients

Project

Pulmonary and Critical Care

Endorsement Status

Endorsement Removed

Is Under Review

No

Previous Endorsement Cycle

Full Year 2015

Removal Date

Tue, 08/02/2016 - 20:00

Initial Endorsement

Thu, 03/08/2007 - 19:00

Steward

Centers for Medicare & Medicaid Services

1.0 New or Maintenance

Maintenance

1.1 Measure Structure

Single Measure

1.3 Electronic Clinical Quality Measure (eCQM)

No

1.6 Measure Description

Percentage of Immunocompetent patients with Community-Acquired Pneumonia who receive an initial antibiotic regimen during the first 24 hours that is consistent with current guidelines

1.7 Measure Type

Process

1.8 Level of Analysis

Facility

1.9 Care Setting

Inpatient/Hospital

1.14 Numerator

Pneumonia patients who received an initial antibiotic regimen (as specified under the Set Measure Identifier and description in Measure Information Form) consistent with current guidelines during the first 24 hours of their hospitalization.

1.15 Denominator

Pneumonia patients 18 years of age or older

Table 3.1 Pneumonia (PN) ICD-9 Code Shortened Description

481 PNEUMOCOCCAL PNEUMONIA
482.0 K. PNEUMONIAE PNEUMONIA
482.1 PSEUDOMONAL PNEUMONIA
482.2 H. INFLUENZAE PNEUMONIA
482.30 STREPTOCOCCAL PNEUMONIA NOS
482.31 PNEUMONIA STRPTOCOCCUS A
482.32 PNEUMONIA STRPTOCOCCUS B
482.39 PNEUMONIA OTH STREP
482.40 STAPHYLOCOCCAL PNEUMONIA NOS
482.41 METH SUS PNEUMONIA D/T STAPH
482.42 METH RES PNEUMONIA D/T STAPH
482.49 STAPHYLOCOCCAL PNEUMONIA NEC
482.82 PNEUMONIA E COLI
482.83 PNEUMONIA OTH GRM-NEG BACT
482.84 LEGIONNAIRES' DISEASE
482.89 PNEUMONIA OTH SPCF BACT
482.9 BACTERIAL PNEUMONIA NOS
483.0 PNEUMONIA MYCPLSM PNEUMONIAE
483.1 PNEUMONIA D/T CHLAMYDIA
483.8 PNEUMONIA OTH SPEC ORG
NSM
485 BRONCHOPNEUMONIA ORG NOS
486 PNEUMONIA, ORGANISM NOS

Table 3.2 Septicemia ICD-9 Code Shortened Description

038.0 STREPTOCOCCAL SEPTICEMIA
038.10 STAPHYLOCOCCAL SEPTICEMIA NOS
038.11 METH SUSC STAPHYLOCOCCAL SEPTICEMIA
038.12 MRSA SEPTICEMIA
038.19 STAPHYLOCOCCAL SEPTICEMIA NEC
038.2 PNEUMOCOCCAL SEPTICEMIA
038.3 ANAEROBIC SEPTICEMIA
038.40 GRAM-NEG SEPTICEMIA NOS
038.41 H. INFLUENZAE SEPTICEMIA
038.42 E COLI SEPTICEMIA
038.43 PSEUDOMONAS SEPTICEMIA
038.44 SERRATIA SEPTICEMIA
038.49 GRAM-NEG SEPTICEMIA NEC
038.8 SEPTICEMIA NEC
038.9 SEPTICEMIA NOS
995.91 SEPSIS
995.92 SEVERE SEPSIS

Table 3.3 Respiratory Failure ICD-9 Code Shortened Description

518.81 ACUTE RESPIRATORY FAILURE
518.84 ACUTE & CHRONIC RESPIRATORY FAILURE

Table 3.1 Pneumonia (PN) ICD-10 Code Shortened Description

J13 Pneumonia due to Streptococcus pneumoniae
J18.1 Lobar pneumonia, unspecified organism
J15.0 Pneumonia due to Klebsiella pneumoniae
J15.1 Pneumonia due to Pseudomonas
J14 Pneumonia due to Hemophilus influenzae
J15.4 Pneumonia due to other streptococci
J15.3 Pneumonia due to streptococcus, group B
J15.20 Pneumonia due to staphylococcus, unspecified
J15.21 Pneumonia due to staphylococcus aureus
Z16 Infection and drug resistant microorganisms
J15.29 Pneumonia due to other staphylococcus
J15.5 Pneumonia due to Escherichia coli
J15.6 Pneumonia due to other aerobic Gram-negative bacteria
A48.1 Legionnaires' disease
J15.8 Pneumonia due to other specified bacteria
J15.9 Unspecified bacterial pneumonia
J15.7 Pneumonia due to Mycoplasma pneumoniae
J16.0 Chlamydial pneumonia
J16.8 Pneumonia due to other specified infectious organisms
J18.0 Bronchopneumonia, unspecified organism
J18.8 Other pneumonia, unspecified organism
J18.9 Pneumonia, unspecified organism
J17 Pneumonia in diseases classified elsewhere
J18.2 Hypostatic pneumonia, unspecified organism
J85.1 Abscess of lung with pneumonia

Table 3.2 Septicemia ICD-10 Code Shortened Description

A40.0 Sepsis due to streptococcus, group A
A40.1 Sepsis due to streptococcus, group BA
A40.3 Sepsis due to Streptococcus pneumoniae
A40.8 Other streptococcal sepsis
A40.9 Streptococcal sepsis, unspecified
A41.9 Sepsis unspecified
A41.2 Sepsis due to other unspecified specified staphylococcus
A41.0 Sepsis due to Staphylococcus aureus
A41.0 AND U80.1 Sepsis due to Staphylococcus aureus AND Methicillin-resistant staphylococcus aureus infection
A41.1 Sepsis due to other specified staphylococcus
A41.89 Other specified sepsis
A41.4 Sepsis due to anaerobes
A41.50 Gram-negative sepsis, unspecified
A41.3 Sepsis due

to Hemophilus influenzaeA 41.51 Sepsis due to Escherichia coli (E coli)A 41.52 Sepsis due to pseudomonasA 41.53 Sepsis due to SerratiaA 41.59 Other Gram-negative sepsisA 41.81 Sepsis due to EnterococcusA 42.7 Actinomycotic sepsisA 41.9 Sepsis, unspecifiedR65.20 Severe sepsis without septic shockR65.21 Severe sepsis with septic shockTable 3.3 Respiratory FailureICD-10 Code Shortened DescriptionJ 96.0 Acute respiratory failureJ 96.9 Respiratory failure, unspecifiedJ 96.2 Acute and chronic respiratory failureJ 96.1 Chronic respiratory failureJ 80 Acute respiratory syndromeJ 22 Unspecified acute lower respiratory infectionJ 98.8 Other specified respiratory disorders

1.20 Types of Data Sources

Paper Patient Medical Records

6.1.2 Current or Planned Use(s)

Payment Program, Public Reporting, Quality Improvement (Internal to the specific organization), Quality Improvement with Benchmarking (external benchmarking to multiple organizations)

Exclusions

Patients less than 18 years of age

Patients who have a length of stay greater than 120 days

Patients with Cystic Fibrosis

Patients who had no chest x-ray or CT scan that indicated abnormal findings within 24 hours prior to hospital arrival or anytime during the hospitalization

Receiving comfort measures only documented the day of or the day after arrival

Patients enrolled in a clinical trial

Patients received as a transfer from the emergency/observation department of another hospital

Patients received as a transfer from an ambulatory surgery center

Patients received as a transfer from an inpatient or outpatient department of another hospital

Patients who have no diagnosis of pneumonia either as the ED final diagnosis/impression or direct admission diagnosis/impression

Patients who are Compromised as defined in data dictionary (i.e., documentation that the patient had (1) any of the following compromising conditions: HIV positive, AIDS, cystic fibrosis, systemic chemotherapy within last three months, systemic immunosuppressive therapy within the past three months, leukemia documented in the past three months, lymphoma documented in the past three months, radiation therapy in the past three months; With healthcare associated pneumonia as defined in data dictionary (i.e., presence of at least one of the following: (1) hospitalization

within the last 90 calendar days; (2) residence in a nursing home or extended care facility for any amount of time within the last 90 days; (3) chronic dialysis within the last 30 days prior to this hospitalization; (4) wound care, tracheostomy care or ventilator care provided by a health care professional within the last 30 days) and abstraction guidelines

Patients transferred/admitted to the ICU within 24 hours after arrival to this hospital with a beta-lactam allergy

Patients who have a duration of stay less than or equal to one day

Patients with another source of infection who did not receive an antibiotic regimen recommended for pneumonia but did receive antibiotics within the first 24 hours of hospitalization

Planned Use

Payment Program, Public Reporting, Quality Improvement (Internal to the specific organization), Quality Improvement with Benchmarking (external benchmarking to multiple organizations)

Risk Adjustment

No risk adjustment or risk stratification

Target Population

Elderly, Populations at Risk: Populations at Risk

Use In Federal Program

Hospital Compare, Hospital Inpatient Quality Reporting Program, Hospital Value-Based Purchasing

Steward Organization

Centers for Medicare & Medicaid Services

Steward POC email

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