



Inpatient Generic Quality Screen Pneumonia (PN)

Discharges: _____

HOSPITAL NPN # _____ **PATIENT ID#:** _____

LEGEND:

Y = Yes The patient meets criteria for the Initial Patient Population for Acute Myocardial Infarction (AMI) **and** there is documentation in the record to support the patient received the care identified by the National Quality Measure

N = No The patient meets criteria for the Initial Patient Population for Acute Myocardial Infarction (AMI) **and** there is **NO** documentation in the record to support the patient received the care identified by the National Quality Measure

Initial Patient Population Data Elements - PN
<ul style="list-style-type: none"> 18 years of age or older Length of stay less than or equal to 120 days ICD-9-CM Principal Diagnosis Code for Pneumonia (Appendix A, Table 3.1) <p style="text-align: center; margin: 5px 0;">OR</p> <p>ICD-9-CM Principal Diagnosis Code for Septicemia (Appendix A, Table 3.2) or Respiratory Failure (Appendix A, Table 3.3) plus an <i>ICD-9-CM Other Diagnosis Code</i> of PN (Appendix A, Table 3.1)</p>

National Quality Measures - PN	YES	NO	N/A
<ul style="list-style-type: none"> Pneumonia patients transferred or admitted to the ICU within 24 hours of hospital arrival, who had blood cultures performed within 24 hours prior to or 24 hours after hospital arrival. 			
<ul style="list-style-type: none"> ED pneumonia patients whose initial blood culture was collected prior to first hospital dose of antibiotics. 			
<ul style="list-style-type: none"> Pneumonia patients who received their first dose of antibiotics within 6 hours after arrival at the hospital. 			
<ul style="list-style-type: none"> Immunocompetent patients with Community-Acquired Pneumonia who receive an initial antibiotic regimen during the first 24 hours that is consistent with current guidelines. (See "Pneumonia Antibiotic Consensus Recommendations") 			
<ul style="list-style-type: none"> Pneumonia patients with a history of smoking cigarettes anytime during the year prior to hospital arrival, who are given smoking cessation advice/counseling. 			
<ul style="list-style-type: none"> Pneumonia patients hospitalized between October and March, who were screened for influenza vaccine status and were vaccinated prior to discharge if indicated. (See "Inpatient Vaccination Screening Form" for indications and contraindications) 			
Patients 50 years of age and older (CMS/JC core measure)			
Patients 18-49 years of age (high-risk status per screening form)			



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<ul style="list-style-type: none"> Pneumonia patients who were screened for pneumococcal vaccine status and were vaccinated prior to discharge if indicated. (See "Inpatient Vaccination Screening Form" for indications and contraindications) 			
<p style="text-align: center;">Patients 65 years of age and older (CMS/JC core measure)</p>			
<p style="text-align: center;">Patients 18-64 years of age (high-risk per screening form)</p>			



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Pneumonia Antibiotic Consensus Recommendations (Discharges 4/1/08 – 9/30/08)

Non-ICU Patient	ICU Patient	Pseudomonal Risk
<p>β-lactam (IV or IM) Table 2.3 + Macrolide (IV or oral) Table 2.5</p> <p>Or</p> <p>Antipneumococcal Quinolone monotherapy (IV or oral) Table 2.9</p> <p>Or</p> <p>β-lactam (IV or IM) Table 2.3 + Doxycycline (IV or oral) Table 2.10</p> <p>Or</p> <p>If less than 65 with no <i>Risk Factors for Drug-Resistant Pneumococcus</i> (see data element)</p> <p>Macrolide monotherapy (IV or oral) Table 2.5</p> <p>β-lactam = Ceftriaxone, Cefotaxime, Ampicillin/Sulbactam, Ertapenem</p> <p>Macrolide = Erythromycin, Clarithromycin, Azithromycin</p> <p>Antipneumococcal Quinolones = Levofloxacin, Moxifloxacin, Gemifloxacin</p>	<p>β-lactam (IV) Table 2.16 + Macrolide (IV) Table 2.6</p> <p>Or</p> <p>β-lactam (IV) Table 2.16 + Antipneumococcal Quinolone (IV) Table 2.14</p> <p>Or</p> <p>If documented β-lactam allergy: Antipneumococcal Quinolone (IV) Table 2.14 + Aztreonam (IV) Table 2.7</p> <p>β-lactam = Ceftriaxone, Cefotaxime, Ampicillin/Sulbactam,</p> <p>Macrolide = Erythromycin, Azithromycin</p> <p>Antipneumococcal Quinolones = Levofloxacin, Moxifloxacin</p>	<p>These antibiotics would also be acceptable for ICU and Non-ICU patients with Pseudomonal Risk</p> <p>Antipseudomonal β-lactam (IV) Table 2.4 + Antipseudomonal Quinolone (IV) Table 2.8 (PO Quinolone is allowed for Non-ICU only)</p> <p>Or</p> <p>Antipseudomonal β-lactam (IV) Table 2.4 + Aminoglycoside (IV) Table 2.11 + either Antipneumococcal Quinolone (IV) Table 2.14 Or Macrolide (IV) Table 2.6 (PO Quinolone is allowed for Non-ICU only Table 2.9)</p> <p>Or</p> <p>If documented β-lactam allergy: Aztreonam (IV) Table 2.7 + Antipneumococcal Quinolone (IV) Table 2.14 + Aminoglycoside (IV) Table 2.11 (PO Quinolone is allowed for Non-ICU only Table 2.9)</p> <p>***Aztreonam (IV) Table 2.7 + Levofloxacin** (IV or oral) Table 2.17</p> <p>Antipseudomonal Quinolone = Ciprofloxacin, Levofloxacin**</p> <p>Antipseudomonal β-lactam = Cefepime, Imipenem, Meropenem, Piperacillin/Tazobactam</p> <p>Aminoglycoside = Gentamicin, Tobramycin, Amikacin</p> <p>Antipneumococcal Quinolone = Levofloxacin, Moxifloxacin</p> <p>Macrolide = Azithromycin, Erythromycin</p>

*** For patients with renal insufficiency



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Inpatient Vaccination Screening Form

Pneumococcal Vaccine Indications	Influenza Vaccine Indications
<input type="checkbox"/> Patient is high-risk if either of the following: - 65 years of age or older - Resident of nursing home or chronic care facility regardless of age <p style="text-align: center;">OR</p> <input type="checkbox"/> Patient is 18-64 and has any of the following high-risk conditions: - Serious long-term health problem with chronic heart or lung-disease (<i>not</i> including asthma), diabetes mellitus, or kidney disease including nephrotic syndrome - Compromised immunity such as: Hodgkin's disease, leukemia, lymphoma, multiple myeloma, generalized malignancy, HIV/AIDS, organ or bone marrow transplant, treatment with long-term corticosteroids, cancer drugs, or radiation therapy - Alcoholism, cirrhosis, or chronic liver disease - Sickle cell anemia or prior splenectomy - Cerebrospinal fluid leaks <p style="text-align: center;">OR</p> <input type="checkbox"/> Patient uncertain about prior vaccination status or history unreliable and meets any of the above criteria <input type="checkbox"/> <u>VACCINE NOT INDICATED</u> if none of the above. <p style="text-align: center;">STOP ASSESSMENT!</p>	<input type="checkbox"/> Patient is: - 50 years of age or older (higher-risk) - Resident of nursing home or chronic care facility regardless of age (high-risk) <p style="text-align: center;">OR</p> <input type="checkbox"/> Patient is 18-49 and has any of the following high-risk conditions: - Serious long-term health problem with chronic heart or lung disease (<i>including</i> asthma), diabetes mellitus, hepatic or kidney disease, anemia or other blood disorders. - Compromised immunity such as: Hodgkin's disease, leukemia, lymphoma, multiple myeloma, generalized malignancy, HIV/AIDS, organ or bone marrow transplant, treatment with long-term corticosteroids, cancer drugs, or radiation therapy - Women who will be pregnant during the influenza season. - Any condition that can compromise respiratory function or the handling of respiratory secretions or that can increase the risk for aspiration (i.e., spinal cord injuries, seizures, neuromuscular disorders, etc.). <p style="text-align: center;">OR</p> <input type="checkbox"/> Patient uncertain about prior vaccination status or history unreliable and meets any of the above criteria <input type="checkbox"/> <u>VACCINE NOT INDICATED</u> if none of the above. <p style="text-align: center;">STOP ASSESSMENT!</p>
Pneumococcal vaccine NOT INDICATED if any of the following:	Influenza vaccine NOT INDICATED if any of the following:
<input type="checkbox"/> Previously immunized after age 65 (Date: _____) <input type="checkbox"/> Previously immunized before age 65, but <5 years ago (Date: _____) <input type="checkbox"/> Pregnant women in first trimester only <input type="checkbox"/> Severe allergic reaction (i.e., anaphylaxis) after a previous vaccine dose or to a vaccine component <input type="checkbox"/> Patient refuses. Reason: _____ <p>_____</p> <p>NOTE: If pt was immunized prior to age 65, only ONE booster in 5 years is required.</p>	<input type="checkbox"/> Previously immunized this flu season (Date: _____) <input type="checkbox"/> Has a known anaphylactic hypersensitivity to eggs <input type="checkbox"/> Has had a severe allergic reaction (i.e., anaphylaxis) after a previous vaccine dose or to a vaccine component <input type="checkbox"/> History of Guillain-Barre syndrome within 6 weeks of a previous dose of influenza vaccine <input type="checkbox"/> Patient refuses. Reason: _____ <p>_____</p>

IF INDICATED, VACCINE ADMINISTRATION SHOULD BE DOCUMENTED ON THE HOSPITAL VACCINATION SCREENING FORM AND/OR ON THE MEDICATION ADMINISTRATION RECORD (MAR).



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INITIAL PATIENT POPULATION TABLES (APPENDIX A)

Table 3.1 Pneumonia (PN)		
Code	ICD-9-CM Description	Shortened Description
481	Pneumococcal pneumonia (Streptococcus pneumoniae pneumonia)	PNEUMOCOCCAL PNEUMONIA
482.0	Pneumonia due to Klebsiella pneumoniae	K. PNEUMONIAE PNEUMONIA
482.1	Pneumonia due to Pseudomonas	PSEUDOMONAL PNEUMONIA
482.2	Pneumonia due to Hemophilus influenzae (H. influenzae)	H.INFLUENZAE PNEUMONIA
482.30	Pneumonia due to Streptococcus, unspecified	STREPTOCOCCAL PNEUMN NOS
482.31	Pneumonia due to Group A	PNEUMONIA STRPTOCOCCUS A
482.32	Pneumonia due to Group B	PNEUMONIA STRPTOCOCCUS B
482.39	Pneumonia due to other Streptococcus	PNEUMONIA OTH STREP
482.40	Pneumonia due to Staphylococcus, unspecified	STAPHYLOCOCCAL PNEU NOS
482.41	Pneumonia due to Staphylococcus aureus	STAPH AUREUS PNEUMONIA
482.49	Pneumonia due to other Staphylococcus pneumonia	STAPH PNEUMONIA NEC
482.82	Pneumonia due to Escherichia coli (E. coli)	PNEUMONIA E COLI
482.83	Pneumonia due to other gram-negative bacteria	PNEUMO OTH GRM-NEG BACT
482.84	Pneumonia due to Legionnaires' disease	LEGIONNAIRES' DISEASE
482.89	Pneumonia due to other specified bacteria	PNEUMONIA OTH SPCF BACT
482.9	Bacterial pneumonia unspecified	BACTERIAL PNEUMONIA NOS
483.0	Pneumonia due to Mycoplasma pneumoniae	PNEU MYCPLSM PNEUMONIAE
483.1	Pneumonia due to Chlamydia	PNEUMONIA D/T CHLAMYDIA
483.8	Pneumonia due to other specified organism	PNEUMON OTH SPEC ORGN SM
485	Bronchopneumonia, organism unspecified	BRONCHOPNEUMONIA ORG NOS
486	Pneumonia, organism unspecified	PNEUMONIA, ORGANISM NOS

Table 3.2 Septicemia		
Code	ICD-9-CM Description	Shortened Description
038.0	Streptococcal septicemia	STREPTOCOCCAL SEPTICEMIA
038.10	Staphylococcal septicemia, unspecified	STAPHYLCOCC SEPTICEM NOS
038.11	Staphylococcus aureus septicemia	STAPH AUREUS SEPTICEMIA
038.19	Other staphylococcal septicemia	STAPHYLCOCC SEPTICEM NEC
038.2	Pneumococcal septicemia (Streptococcus pneumoniae septicemia)	PNEUMOCOCCAL SEPTICEMIA
038.3	Septicemia due to anaerobes	ANAEROBIC SEPTICEMIA
038.40	Septicemia due to gram-negative organism, unspecified	GRAM-NEG SEPTICEMIA NOS
038.41	Septicemia due to Hemophilus influenzae (H. influenzae)	H INFLUENZAE SEPTICEMIA
038.42	Septicemia due to Escherichia coli (E. coli)	E COLI SEPTICEMIA
038.43	Septicemia due to Pseudomonas	PSEUDOMONAS SEPTICEMIA
038.44	Septicemia due to Serratia	SERRATIA SEPTICEMIA
038.49	Septicemia due to other	GRAM-NEG SEPTICEMIA NEC
038.8	Other specified septicemias	SEPTICEMIA NEC
038.9	Unspecified septicemia	SEPTICEMIA NOS



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Table 3.3 Respiratory Failure

Code	ICD-9-CM Description	Shortened Description
518.81	Acute respiratory failure	ACUTE RESPIRATRY FAILURE
518.84	Acute and chronic respiratory failure	ACUTE & CHRONC RESP FAIL



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ANTIBIOTIC TABLES (APPENDIX C)

Table 2.3 Beta Lactams	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Ampicillin/Sulbactam	Ampicillin/Sulbactam
Cefotaxime	Cefotaxime
Cefotaxime Sodium	Cefotaxime
Ceftriaxone	Ceftriaxone
Ceftriaxone Sodium	Ceftriaxone
Claforan	Cefotaxime
Ertapenem	Ertapenem
Ertapenem Sodium	Ertapenem
Invanz	Ertapenem
Rocephin	Ceftriaxone
Unasyn	Ampicillin/Sulbactam

Table 2.4 Beta-Lactams (Pseudomonal Risk)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Cefepime	Cefepime
Cefepime Hydrochloride	Cefepime
Imipenem	Imipenem/Cilastatin
Imipenem/Cilastatin	Imipenem/Cilastatin
Maxipime	Cefepime
Meropenem	Meropenem
Merrem	Meropenem
Piperacillin/Tazobactam	Piperacillin/Tazobactam
Primaxin	Imipenem/Cilastatin
Zosyn	Piperacillin/Tazobactam
Zosyn Add-Vantage	Piperacillin/Tazobactam

Table 2.5 Macrolides (Non-ICU)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Azithromycin	Azithromycin
Biaxin	Clarithromycin
Biaxin XL	Clarithromycin
Clarithromycin	Clarithromycin
EES	Erythromycin
E.E.S.	Erythromycin
E-Mycin	Erythromycin
ERYC	Erythromycin
EryPed	Erythromycin
Erytab	Erythromycin
Erythrocin	Erythromycin
Erythromycin	Erythromycin



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Erythromycin Base	Erythromycin
Erythromycin Estolate	Erythromycin
Erythromycin Ethylsuccinate	Erythromycin
Erythromycin Gluceptate	Erythromycin
Erythromycin Lactobionate	Erythromycin
Erythromycin Stearate	Erythromycin
Erythromycin/Sulfisoxazole	Erythromycin
Ilosone	Erythromycin
Ilotycin	Erythromycin Gluceptate
PCE	Erythromycin
Pediamycin	Erythromycin
Pediazole	Erythromycin
Robimycin Erythromycin	Erythromycin
Sulfisoxazole/Erythromycin Ethylsuccinate	Erythromycin
Zithromax	Azithromycin
Zithromax TRI-PAK	Azithromycin
Z-pak	Azithromycin

Table 2.6 Macrolides (ICU)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Azithromycin	Azithromycin
Erythromycin	Erythromycin
Erythromycin Gluceptate	Erythromycin Gluceptate
Erythromycin Lactobionate	Erythromycin
Ilotycin	Erythromycin Gluceptate
Zithromax	Azithromycin

Table 2.7 Aztreonam (PN-Pseudomonal Risk/SCIP-Colon β-lactam Allergy)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Aztreonam	Aztreonam
Azactam	Aztreonam

Table 2.8 Quinolones (PN-Pseudomonal Risk)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Ciloxan	Ciprofloxacin
Cipro	Ciprofloxacin
Ciprofloxacin	Ciprofloxacin
Ciprofloxacin Hydrochloride	Ciprofloxacin
Levaquin	Levofloxacin
Levofloxacin	Levofloxacin



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Table 2.9 Quinolones	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Avelox	Moxifloxacin
Factive	Gemifloxacin
Gemifloxacin	Gemifloxacin
Levaquin	Levofloxacin
Levofloxacin	Levofloxacin
Moxifloxacin	Moxifloxacin
Moxifloxacin Hydrochloride	Moxifloxacin

Table 2.10 Tetracyclines	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Adoxa	Doxycycline
Doryx	Doxycycline
DoxyCaps	Doxycycline
Doxycycline	Doxycycline
Doxycycline Calcium	Doxycycline
Doxycycline Hyclate	Doxycycline
Doxycycline Hydrochloride	Doxycycline
Doxycycline Monohydrate	Doxycycline
Monodox	Doxycycline
Novodoxylin	Doxycycline
Periostat	Doxycycline
Vibra-Tabs	Doxycycline
Vibramycin	Doxycycline

Table 2.11 Aminoglycosides (PN-Pseudomonal Risk/SCIP-Colon or Hysterectomy β-lactam Allergy)	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Amikacin	Amikacin
Amikacin	Sulfate Amikacin
Amikin	Amikacin
Garamycin	Gentamicin
Gentamicin	Gentamicin
Gentamicin Sulfate	Gentamicin
Gentamicin Sulfate Sodium Chloride	Gentamicin
Genticin	Gentamicin
G-Mycin	Gentamicin
Table 2.11 Aminoglycosides (PN-Pseudomonal Risk/SCIP-Colon or Hysterectomy β-lactam Allergy) continued	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Nebcin	Tobramycin
Tobra	Tobramycin
Tobramycin	Tobramycin



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Tobramycin Sulfate	Tobramycin
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Table 2.12 Clindamycin	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Cleocin	Clindamycin
Cleocin HCL	Clindamycin
Cleocin Phosphate	Clindamycin
Clindamycin	Clindamycin
Clindamycin Hydrochloride	Clindamycin
Clindamycin Phosphate	Clindamycin

Table 2.16 ICU β-lactams	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Ampicillin/Sulbactam	Ampicillin/Sulbactam
Cefotaxime	Cefotaxime
Cefotaxime Sodium	Cefotaxime
Ceftriaxone	Ceftriaxone
Ceftriaxone Sodium	Ceftriaxone
Claforan	Cefotaxime
Rocephin	Ceftriaxone
Unasyn	Ampicillin/Sulbactam

Table 2.17 Pseudomonal Risk β-lactam Allergy	
Antibiotic Selection Options (includes trade & generic name)	Generic Name Crosswalk
Levaquin	Levofloxacin
Levofloxacin	Levofloxacin