

Pneumonia Antibiotic Recommendations

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The current North American antibiotic guidelines for Community-Acquired Pneumonia in immunocompetent patients are from the Centers for Disease Control and Prevention (CDC), the Infectious Disease Society of America (IDSA), the Canadian Infectious Disease Society / Canadian Thoracic Society (CIDS/CTS) and the American Thoracic Society (ATS).

For discharges 01/01/12 (1Q12) - 06/30/12 (2Q12).

ICU Patient

Macrolide (IV) + **either** β -lactam (IV) **or**

Antipneumococcal / Antipseudomonal β -lactam (IV)

OR

Antipseudomonal Quinolone (IV) + **either** β -lactam (IV) **or**

Antipneumococcal / Antipseudomonal β -lactam (IV)

OR

Antipneumococcal Quinolone (IV) + **either** β -lactam (IV) **or**

Antipneumococcal / Antipseudomonal β -lactam (IV)

OR

Antipneumococcal / Antipseudomonal β -lactam (IV) + Aminoglycoside (IV) + **either** Antipneumococcal Quinolone (IV) **or** Macrolide (IV)

If the patient has *Francisella tularensis* or *Yersinia pestis* risk as determined by Another Source of Infection (see data element) the following is another acceptable regimen:

Doxycycline (IV) + **either** β -lactam (IV) **or**

Antipneumococcal / Antipseudomonal β -lactam (IV)

β -lactam = Ceftriaxone, Cefotaxime, Ampicillin/Sulbactam
Antipneumococcal/Antipseudomonal β -lactam = Cefepime, Imipenem, Meropenem, Piperacillin/Tazobactam, Doripenem
Macrolide = Erythromycin, Azithromycin
Antipneumococcal Quinolones = Levofloxacin¹, Moxifloxacin
Antipseudomonal Quinolones = Ciprofloxacin, Levofloxacin¹
Aminoglycoside = Gentamicin, Tobramycin, Amikacin

Non-ICU Patient

β -lactam (IV or IM) + Macrolide (IV or PO)

OR

Antipneumococcal Quinolone monotherapy (IV or PO)

OR

β -lactam (IV or IM) + Doxycycline (IV or PO)

OR

Tigecycline monotherapy (IV)

β -lactam = Ceftriaxone, Cefotaxime, Ampicillin/Sulbactam, Ertapenem, Ceftazidime
Macrolide = Erythromycin, Clarithromycin, Azithromycin
Antipneumococcal Quinolones = Levofloxacin¹, Moxifloxacin, Gemifloxacin
Doxycycline
Tigecycline

Non-ICU Patient with Pseudomonal Risk

These antibiotics are acceptable for non-ICU patients with Pseudomonal Risk **ONLY**:

Antipneumococcal / Antipseudomonal β -lactam (IV) + Antipseudomonal Quinolone (IV or PO)

OR

Antipneumococcal / Antipseudomonal β -lactam (IV) + Aminoglycoside (IV) + **either** Antipneumococcal Quinolone (IV or PO) **or** Macrolide (IV or PO)

These antibiotics are acceptable for non-ICU patients with β -lactam allergy and Pseudomonal Risk **ONLY**:

Aztreonam (IV or IM) + Antipneumococcal Quinolone (IV or PO) + Aminoglycoside (IV)

OR

Aztreonam² (IV or IM) + Levofloxacin¹ (IV or PO)

Antipseudomonal Quinolone = Ciprofloxacin, Levofloxacin¹
Antipneumococcal/Antipseudomonal β -lactam = Cefepime, Imipenem, Meropenem, Piperacillin/Tazobactam, Doripenem
Aminoglycoside = Gentamicin, Tobramycin, Amikacin
Antipneumococcal Quinolone = Levofloxacin¹, Moxifloxacin, Gemifloxacin
Macrolide = Erythromycin, Clarithromycin, Azithromycin