

INITIAL ANTIBIOTIC SELECTION FOR PATIENTS WITH PNEUMONIA

Non-ICU

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) or

If less than 65 with no risk factors for drug-resistant pneumococcus: Macrolide monotherapy (IV or PO)

β -lactam = Ceftriaxone, Cefotaxime, Ampicillin/Sulbactam, Ertapenem, Ceftaroline

Macrolide = Erythromycin, Clarithromycin, Azithromycin

Antipneumococcal Quinolones = Levofloxacin**, Moxifloxacin, Gemifloxacin

Doxycycline

Tigecycline

Non-ICU 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) + Antipneumococcal Quinolone (IV or PO), or

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

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

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

or

Aztreonam* (IV or IM) + Levofloxacin** (IV or PO)

Antipseudomonal Quinolone = Ciprofloxacin, Levofloxacin**

Antipneumococcal/Antipseudomonal β -lactam = Cefepime, Imipenem, Meropenem, Piperacillin/Tazobactam, Doripenem

Aminoglycoside = Gentamicin, Tobramycin, Amikacin

Antipneumococcal Quinolone = Levofloxacin**, Moxifloxacin, Gemifloxacin

Macrolide = Erythromycin, Clarithromycin, Azithromycin

ICU

Macrolide (IV) + β -lactam (IV), or

Macrolide (IV) + Antipneumococcal/Antipseudomonal β -lactam (IV)

or

Antipseudomonal Quinolone (IV) + β -lactam (IV), or

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

or

Antipneumococcal Quinolone (IV) + β -lactam (IV), or

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

or

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

Antipneumococcal/Antipseudomonal β -lactam (IV) + Aminoglycoside (IV) + Macrolide (IV)

If the patient has *Francisella tularensis* or *Yersinia pestis* risk as determine 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 = Levofloxacin**, Moxifloxacin

Antipseudomonal Quinolone = Ciprofloxacin, Levofloxacin**

Aminoglycoside = Gentamicin, Tobramycin, Amikacin

* For patients with renal insufficiency

**Levofloxacin should be used in 750mg dosage when used in management of patients with pneumonia

Adapted from the Specifications Manual for National Hospital Inpatient Quality Measures and Infectious Disease Society of America (ISDA). Guidelines for discharges 01-01-12 (1Q12) through 06-30-12 (2Q12)

