

### Pneumonia Antibiotic Consensus Recommendations

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

Data collected by the CMS National Pneumonia Project indicate that 78% of Medicare pneumonia patients who were hospitalized during 1998-99 received antibiotics that were consistent with guidelines published at that time. Among the states and territories this ranged from 55% to 87%. Compliance was lower among ICU patients, largely because atypical pathogen coverage was generally not common, but was only recommended for ICU patients. Subsequent revisions have made such coverage recommended for all inpatients.

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

\*\*\* For patients with renal insufficiency

Note: The dosage listed is specified to reflect clinical expert recommendations. We do not collect dosage information for the purposes of the Pneumonia Project.