Uncomplicated Community Acquired Pneumonia (CAP) in the Inpatient Setting: Strive for Five*!

Empiric Therapy for Uncomplicated, Nonsevere CAP: Hospitalized Patients*

Therapy	Notes
Ceftriaxone PLUS azithromycin (or ceftriaxone plus doxycycline)	Ceftriaxone can be used in non- severe penicillin allergic patients
Levofloxacin	 Consider use only if severe penicillin allergy Strongly associated with development of C. difficile Associated with prolonged QTc intervals, tendinopathies and altered mental status especially in the elderly

 Anaerobic coverage is not routinely warranted in noncritically ill patients with aspiration pneumonia

Step-Down and Transitioning to Oral Therapy

 Convert to oral antibiotics as soon as clinical improvement is observed and the patient is able to tolerate oral therapy.

Empiric Oral Antibiotics for Step-down Therapy when no Etiologic Pathogen Identified:

Amoxicillin*	
Amoxicillin-Clavulanate*	
Cefdinir* or	• can be used in non-severe penicillin allergic
Cefuroxime*	patients.
Levofloxacin	Consider use only if severe Penicillin allergy
	Strongly associated with development of C. difficile
	 Associated with prolonged QTc intervals,
	altered mental status & tendinopathies.

*Azithromycin can be added to above step-down therapy. However, $\underline{3}$ days of azithromycin is generally sufficient in uncomplicated CAP given its long half-life unless treating Legionella.

For more information and guidance:

- Refer to the Beaumont Health Adult Community-Acquired Pneumonia (CAP) Antimicrobial Treatment Guidelines located on both PolicyStat and the Beaumont Antimicrobial Stewardship Site and the HMS Guidelines located at: https://mi-hms.org/sites/default/files/CAP-Empiric-Treatment-and-Duration-Guidelines-030421 0.pdf
- Use the Order Set titled: EC/IP Pneumonia Management

Duration of Therapy: STRIVE FOR 5*

- 5 days of therapy is sufficient for most patients with uncomplicated CAP.
 - Patients will commonly be discharged with only 1 or 2 (or 0) days of discharge antibiotics depending on days of therapy received while hospitalized.
 - The prescribing of extra days of antibiotics at discharge is the #1 reason patients are treated too long.
 - o The Empiric Oral Antibiotics listed in the chart to the left are also suggested discharge antibiotics. Azithromycin is not recommended as monotherapy at discharge **or** if patient has already received 3 days of azithromycin therapy (unless treating Legionella).
- Therapy can be continued for patients who are febrile or clinically unstable⁺⁺ on the 5th day of treatment
- Consider prolonging to at least 7 days if patient is immunocompromised, has underlying structural lung disease, or did not have adequate clinical response within 72 hours
- If the patient has Legionella, P. aeruginosa, or S. aureus, longer durations of therapy are usually required, particularly if there is associated bacteremia or a parapneumonic effusion
- A lingering cough and chest x-ray abnormalities may take several weeks to improve.

STRIVE FOR FIVE

Most cases of pneumonia can be treated with five days of antibiotics.

^{*}These recommendations are intended for non-ICU patients with CAP who are not severely immunosuppressed and do not have risk factors for MDR organisms

⁺⁺ Signs of clinical instability: oxygen saturation > 90% or new oxygen requirement, heart rate > 100 beats/minute, respiratory rate > 24 breaths/minute, systolic blood pressure < 90 mmHg, altered mental status (different than baseline).