

ASP-001: ANMC Adult Ambulatory Community-Acquired Pneumonia (CAP) Treatment Guideline

Common Etiologies		Diagnostic Criteria Tools				
<u>Bacterial:</u> <i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>Chlamydia pneumoniae</i> , <i>Mycoplasma pneumoniae</i> , <i>M. catarrhalis</i> Respiratory viruses (influenza A & B, COVID-19, adenovirus, RSV, parainfluenza)	<u>Pneumonia Severity Index (PSI) Scoring Tool</u>					
	<u>Demographics</u>	<u>Comorbidities</u>	<u>Physical Exam/Vitals</u>	<u>Labs/Imaging</u>	Risk Class (Points)	Mortality (%)
	• Age (1 point per year)	• Neoplasia +30	• Confusion +20	• Arterial pH <7.35 +30	I (<50)	0.1
	-Male (Age)	• Liver disease +20	• Resp rate >30 +20	• BUN >30mg/dL +20	II (51-70)	0.6
	-Female (Age -10)	• Heart Failure +10	• SBP <90 +20	• Sodium <130 +20	III (71-90)	2.8
	• Nursing home residency +10	• Cerebrovascular disease +10	• Temperature <35C or >40C +15	• Glucose >250 +10	IV (91-130)	8.2
		• Renal disease +10	• HR >125 bpm +15	• Hematocrit <30% +10	V (>130)	29.2
				• Pleural Effusion +10		
				• PaO2 <60 +10		

Symptoms	Testing/Imaging	Clinical Stability	Duration of Therapy
- Productive cough - Chest pain - Dyspnea/Shortness of breath - Diminished breath sounds - Crackles not cleared with coughing - Abdominal pain +/- Fever	- Chest x-ray - Pulse Oximetry	- Temperature <37.8C - Heart rate <100 bpm - Respiratory rate <24 bpm - SpO2 >90% or PaO2 >60 mmHg on room air or baseline oxygen requirement - SBP >90 mm Hg - Mental status Normal/baseline	- Typically healthy, no structural lung disease: 3-5 days - Immunocompromised, moderate structural lung disease or comorbidities present, see below*: 5-7 days - Patients with complicating factors (bronchiectasis, structural lung disease, etc) should have follow-up before decision to stop antibiotics before day - Clinical stability should be met before stopping antibiotics.

Antibiotic Selection

	Preferred Treatment	Alternatives
<u>No comorbidities or risk factors for MRSA or <i>Pseudomonas aeruginosa</i></u>	Amoxicillin 1gm PO TID x3-5 days	Doxycycline 100mg PO BID x3-5 days
<u>Comorbidities present*</u> Comorbidities including chronic heart, lung, liver, or renal disease; diabetes mellitus; alcoholism; malignancy; asplenia	Amoxicillin/Clavulanate 875mg/125mg PO BID x 5-7 days PLUS Azithromycin 500mg PO daily x 3 days	<u>Non-severe PCN allergy:</u> Cefuroxime 500mg PO BID x 5-7 days PLUS Azithromycin 500mg PO daily x 3 days <u>Severe PCN allergy:</u> Levofloxacin 750mg PO daily x 5 days
<u>Risk factors for MRSA or <i>Pseudomonas aeruginosa</i></u> - Prior respiratory isolation of MRSA or <i>P. aeruginosa</i> within previous year; OR - Recent hospitalization AND receipt of parenteral antibiotics in previous 90 days	Treatment should be based on previous culture & susceptibility, IV antimicrobials may be required	

CONSIDERATIONS

- PCR respiratory pathogen panel testing is discouraged in the ambulatory setting. If concern for viral respiratory illnesses, influenza and/or COVID PCR can be ordered, see ANMC respiratory virus testing & treatment guideline for additional details. *Consider additional Amoxicillin 1g BID in addition to Augmentin for CAP complicated by empyema, asplenia or <i>Strep pneumoniae</i> PenG MIC 2-4
ANMC Associated Powerplan: AMB Adult Ambulatory Community Acquired Pneumonia (CAP) Antimicrobial Stewardship Program Approved 2016; Updated December 2023, December 17, 2025

REFERENCES: Metlay et al. IDSA/ATS Consensus Guideline CAP in Adults. Am J Respir Crit Care. 2019;200(7):e45-e67.; Jones BE et al. ATS Diagnosis and Management of Community-acquired Pneumonia. Published July 2025.