

Alaska Antimicrobial Stewardship Collaborative (A2SC) announces the Alaska specific *Community-Acquired Pneumonia (CAP) Treatment Guidelines.* These clinical guidelines are intended to aid in the selection of antimicrobial therapy for patients residing in Alaska who present with community acquired pneumonia. Treatment guidelines available for the following Alaska care setting:

- Adult Inpatient CAP Treatment Guidelines
- Adult Ambulatory CAP Treatment Guidelines
- Pediatric Inpatient CAP Treatment Guidelines
- Pediatric Ambulatory CAP Treatment Guidelines

These guidelines will help Alaska physicians and pharmacists ensure patients receive the right antibiotic at the right time and only when necessary. As a companion to the guidelines the 2019 Alaska State Antibiogram is also available to help guide the best antibiotic choice.

Antibiotics save lives, but any time antibiotics are used, they can cause side effects and lead to antibiotic resistance. In U.S. doctors' offices and emergency departments, at least 47 million antibiotic prescriptions each year are unnecessary, which makes improving antibiotic prescribing and use a national priority.

About Alaska Antimicrobial Stewardship Collaborative

The Alaska Antimicrobial Stewardship Collaborative (A2SC) is an active partnership of hospitals and other health care stakeholders dedicated to developing innovative strategies to ensure appropriate antibiotic use. A2SC's goal is a simple one: all patients in Alaska will receive the right antibiotic at the right time and only when necessary.



The emergence of antibiotic-resistant bacteria caused

by the misuse and overuse of antibiotics is pushing the healthcare industry to re-evaluate how medicine is practiced. Together we will accelerate positive changes to achieve this critical goal. For more information: alaskahha.org/antimicrobial-stewardship-collaborative

			Alaska Antimicrob	oial Stewardship Collat	porative			
ADULT Inpatient Community-Acquired Pneumonia (CAP) Guideline								
Major CriteriaMin• Septic shock with need for vasopressors• Resp • Pao2• Respiratory failure requiring mechanical ventilation• Multi • Conf • Uren • Leuk • Thro • Hypo • Hypo		Minor Cr Respiratory r Pao2/Flo2 ra Multilobar inf Confusion/di Uremia (BUN Leukopenia (Thrombocyto Hypothermia Hypotension	iteria rate ≥ 30breaths/min atio ≤ 250 filtrates sorientation N ≥ 20 mg/dl) (WBC < 4,000 cells/µl) openia (plts <100,000/µl) (<36° C) requiring aggressive fluid resuscitation	Severity and NOTE: Prior categori abandoned. The follo NOT be used alone a • Hospitalized in a • Resided in a nu • Received recen • Attended a herr	 Severity and Risk Factor Considerations NOTE: Prior categorization of healthcare-associated pneumonia (HCAP) has been abandoned. The following are NOT predictive of multi-drug resistant pneumonia and should NOT be used alone as an indication for empiric broad-spectrum coverage: Hospitalized in an acute care hospital for 2 or more days within 90 days of infection Resided in a nursing home or long term care facility Received recent chemotherapy or wound care in last 30 days Attended a hemodialysis clinic in the last 30 days 			
			I reatme	nt Recommendations	Dries Decudementes in			
Infection	Standard Tr	reatment	<u>PLUS</u> IV antibiotics [#]	Culture [#]	Respiratory Culture [#]	Duration		
Non- Severe	Non- Severe Preferred Therapy: Ceftriaxone 1g IV q24hr PLUS Azithromycin 500mg PO/IV q24hr x3 days Anaphylactic β-Lactam Allergy: [¥] Levofloxacin 750mg PO/IV q24hr Levofloxacin 750mg PO/IV q24hr Ceftriaxone 1g IV q24hr PLUS Azithromycin 500mg PO/IV q24hr Ceftriaxone 1g IV q24hr PLUS Azithromycin 500mg PO/IV q24hr x3 days Anaphylactic β-Lactam Allergy:[¥] Levofloxacin 750mg PO/IV q24hr x3 days Anaphylactic β-Lactam Allergy:[¥] Levofloxacin 750mg PO/IV q24hr +/- Vancomycin 15mg/kg (Pharmacy to Dose) Description Description Description Description		Empiric treatment for MRSA or <i>P. aeruginosa</i> not recommended Escalate based upon culture results	Preferred Therapy: ○ Vancomycin 15mg/kg x1 then (Pharmacy to Dose) ○ ○ Ceftriaxone 1g IV q24hr PLUS Azithromycin 500mg PO/IV q24hr x3 days PO/IV q24hr x3	Preferred Therapy: • Cefepime 2gm IV q8hr PLUS Azithromycin 500mg PO/IV q24hr x3 days Anaphylactic β-Lactam Allergy: *	 <u>5 days</u> for patients without immunosuppression or structural lung disease <u>7 days</u> for patients with moderate immunosuppression^{&} or structural lung disease <u>10-14 days</u> for poor clinical response, initial inappropriate treatment, or significant immunosuppression Patients should be afebrile for 48- 72hr and demonstrate signs of clinical stability before therapy is discontinued 		
Severe (1 major or ≥ 3 minor criteria)			Empiric MRSA treatment: Add Vancomycin 15mg/kg (Pharmacy to Dose) Empiric <i>P. aeruginosa</i> treatment: Substitute Cefepime 2g IV q8h for ceftriaxone	Anaphylactic β-Lactam Allergy: * • Vancomycin 15mg/kg x1 then (Pharmacy to Dose) • PLUS Levofloxacin 750mg PO/IV q24hr	 Levofloxacin 750mg PO/IV q24hr PLUS Aztreonam 2gm IV q8hr 			
	Aspiration pneumo	onia	Addition of anaerobic therapy is NOT recommended unless lung abscess or empyema is suspected.					
Oral optic (tota # Prior positi ¥ If patient ro include: ana	Suspected* or confirmed Influenza Oseltamivir 75mg PO BID x5 days Oral options to consider for de-escalation of β-lactam (total duration IV + PO as above)** Preferred Therapy: • Amoxicillin 1g PO TID [^] • Augmentin 875mg BID • Consider additional amoxicillin 1g BID in addition to Augmentin for CAP complicated by empyema, asplenia or Strep pneumo PenG MIC 2-4 Non-Anaphylactic Penicillin Allergy: • Cefuroxime axetil 500mg PO BID # Prior positive cultures within 1 year. If empiric treatment for MRSA or <i>P. aeruginosa</i> , blood and respiratory cultures should be collected prior to antibiotic administration ¥ If patient reports penicillin allergy, inquire about onset and severity of symptoms, as well as prior beta-lactam exposure and update patient medical record. Severe or life-threatening allergic reactions may include: anaphylaxis, angioedema, urticaria, Stevens-Johnson Syndrome (SJS), etc.							
Dosage reco +Certain pat **Patient sho ^ Strep pneu & Severe imr immunosupp	ommendations based up ient populations are at a puld complete macrolide umo and/or cefinase neg nunosuppression: Neutro pression: all other diseas	on an assumed CrC higher risk for influe therapy ative H.influenzae / openia (WBC < 4 or ses (including long-te	I > 60 ml/min. If patient has diminished enza related complications and may req M.cattarhalis use high-dose amoxicillin ANC < 500), HIV+ with CD4 < 200, act erm steroid use with prednisone at 10m	renal function, doses should be dos juire treatment in absence of confirn ive chemotherapy, undergone solid g/day or equivalent)	e-reduced. hed influenza. Refer to local guideline organ transplant on active immunosu	s. ppression, Moderate		

Metlay JP, et al. Diagnosis and treatment of adults with community-acquired pneumonia, clinical practice guideline of the American Thoracic Society and Infectious Diseases Society of America. Am J Respir Crit Care Med. 2019; 200(7):e45-e67. Approved A2SC Advisory April 2021

Alaska Antimicrobial Stewardship Collaborative (A2SC) Adult Ambulatory Community-Acquired Pneumonia (CAP) Treatment Guideline

Common Etiologies		Diagnostic Criter	ia Tools			
Bacterial: S. pneumoniae,	F	Pneumonia Severity Index (PSI) Scoring Tool		Risk Class	Mortality	Pecommonded
H. influenzae, Chlamydia	Demographics	lbs/Imaging	(Points)	(%)	site of care	
pneumoniae, Mycopiasina pneumoniae, M. catarrhalis	Age (1 point per	Neoplasia +30 <u>Exam/Vitals</u> · Arteria	l pH <7.35 +30	L (<50)	0.1	Outpatient
,,,	year) -Male (Age)	Heart Failure +10 • Resp rate >30 +20 • Sodiur	n <130 +20	II (51-70)	0.6	Outpatient
Respiratory viruses: influenza A & B, adopovirus, respiratory	Female (Age -10)Nursing home	Cerebrovascular SBP <90 +20 • Glucos disease +10 • Temperature <35C • Hemat	se >250 +10 tocrit <30% +10	III (71-90)	2.8	Outpatient or brief inpatient
syncytial virus,	residency +10	Renal disease or >40C +15 • Pleura +10 • HR >125 hpm +15 • PaO2	I Effusion +10 <60 +10	IV (91-130)	8.2	Inpatient
parainfluenza, COVID-19			-00 -10	V (>130)	29.2	Inpatient
Symptom	IS	Testing/Imaging		Duration of	Therapy	
 Productive cough Chest pain Dyspnea/Shortness of breath Diminished breath sounds Crackles not cleared with coughing Abdominal pain +/ Envor 		 Chest x-ray Pulse Oximetry PCR respiratory pathogen panel testing is discouraged in the ambulatory setting. If concern for viral respiratory illnesses, influenza or COVID PCR can be ordered Typically healthy, no so MRSA or <i>P. aerugino</i>. (ie. diabetes, asplenia) 		ny, no structura nunocompromis <i>ruginosa,</i> or mo splenia): <u>7 day</u> :	no structural lung disease: <u>5 days</u> nocompromised, suspected or proven <i>ginosa,</i> or moderate structural lung disease lenia): <u>7 days</u>	
,		Antibiotic Selection				
		Antibiotic Selection		Alternee	4	
		Preferred Treatment	Alternatives			
Azithromycin monotherap	by is no longer recom	mended in any circumstance for treatment of commur	hity-acquired pneun	nonia due to lo	cal resistan	ce rates >25%.
No comorbidities or risk fac Pseudomonas aeruginosa	ctors for MRSA or	• Amoxicillin 1gm PO TID x5-7 days	Doxycyclin	ie 100mg PO	BID x5-7 da	ys
 Comorbidities present* Comorbidities including ch liver, or renal disease; diab alcoholism; malignancy; as 	nronic heart, lung, betes mellitus; splenia	 Amoxicillin/Clavulanate 875mg/125mg PO BID x 5-7 days PLUS Azithromycin 500mg PO daily x 3 days 	 Non-anaphylactic PCN allergy: Cefuroxime 500mg PO BID x 5-7 days PLUS Azithromycin 500mg PO daily x 3 days Anaphylactic PCN allergy: Levofloxacin 750mg PO daily x 5 days 		ys <u>PLUS</u> ays	
				v -		
Risk factors for MRSA or P	seudomonas					
 Risk factors for MRSA or Paaeruginosa Prior respiratory isolation of aeruginosa; OR Recent hospitalization <u>ANI</u> parenteral antibiotics in presenteral antib	Pseudomonas of MRSA or <i>P.</i> <u>D</u> receipt of evious 90 days	 Treatment should be based on previous culture & susceptibility, IV antimicrobials may be required 				

For patient diagnosed with influenza, it is recommended to also treat with anti-influenza agents; most benefit is seen if started within 48 hours of symptom onset

REFERENCES: Metlay et al. IDSA/ATS Consensus Guideline CAP in Adults. Am J Respir Crit Care. 2019;200(7):e45-e67.

Alaska Antimicrobial Stewardship Collaborative (A2SC) Pediatric (>3mo) Inpatient Community Acquired Pneumonia (CAP) Treatment Guideline

Initial Testing/In	Inpatient Admission Criteria					
Vital Signs: VS including BP and Pulse Oximetr	y	Pediatric Floor		PICU		
 Labs: Blood work: CBC with differential, CRP, blood Viral Testing: Influenza PCR during influenza Sputum gram stain and culture: if intubating, placement; consider testing in older children Urinary antigen detection testing is not reconsistent are common. Radiography: AP and lateral CXR 	 Respiratory distress SpO2 <90% on room air Unable to tolerate PO Suspected or documented CAP caused by pathogen with increased virulence (ex. CA-MRSA) Concerns about observation at home, inability to be comply with therapy, inability to be followed up 		 Respiratory support: Intubated or requiring non-invasive positive pressure ventilation Concern for respiratory failure Concern for sepsis FiO2 needs HNFC >50% to keep saturation ≥92% Altered mental status 			
	Treatment	Selection				
	Suspected Bact	erial Pneumonia				
Mo	st Common Pathogens: Streptococcu	is pneumoniae, Haemophilus influe	enzae			
Demographics	Parenteral 1	Freatment		Oral Step-Down		
Previously healthy	Preferred: Ampicillin 50mg/kg IV q6hr (max 12g/day) <u>Alternatives</u> :		Antibiotic choice:If culture positive: based on cultures and susceptibilities.			
AND	<i>Non-Type 1 β-Lactam Allergy</i> : Ceftriaxone 50mg/kg IV q24hr (max 2g/day)					
Fully immunized	Type 1 β-Lactam Allergy: Levofloxacin <5 years: 10mg/kg IV BID (max dose 750mg/day)		If culture negative: refer to Ambulatory CAP Treatment Guidelines Antibiotic Duration:			
	>5 years: 10mg/kg IV q24hr (max dose 750mg/day)					
Not appropriately immunized with PCV13 + Hib	<u>Preferred</u> : Ceftriaxone 50mg/kg IV q24hr (max 2g/day)		Uncomplicated pneumonia: complete a 10 day course Complicated pneumonia: dependent on clinical			
Suspicion for <i>H. influenzae</i>	<u>Alternatives</u> : <i>Type 1 β-Lactam Allergy</i> : Levofloxacin <5 years: 10mg/kg IV/PO BID (max dose 750mg/day)					
OR	>5 years: 10mg/kg IV/PO q24hr (max dos	se 750mg/day)	respo	onse, in general 2-4 week course		
Severe disease and/or Complicated Pneumonia			•			
Suspicion for <i>S. aureus</i>	In addition to one of the above antibio Clindamycin 10mg/kg IV q6hr (max 90 For PICU or Severe Infection: Vancom	tics, <u>add</u> : 00mg/dose) nycin 15mg/kg IV q6hr (max 4g/day)	Antibio suscep Antibio	tic choice: Based on cultures and tibilities tic duration: May require longer treatment		
Mos	Suspected Atyp st Common Pathogens: <i>Mycoplasma</i>	ical Pneumonia oneumoniae, Chlamydophila pneun	noniae			
Demographics	Preferred 1	Freatment		Oral Step-Down		
In ≥5yo empirically add macrolide if atypical CAP cannot be ruled out	Azithromycin 10mg/kg IV daily x 1-2 down if possible (max 500mg/dose)	days then transition to oral step	day co	omycin 10mg/kg PO daily to complete a 3 urse (max 500mg/dose)		
Mart Comm	Suspected Vir	al Pneumonia	Doroinf			
Most common in <5vo	No antimicrobial thorapy is	ovirus, Respiratory Syncytial Virus,	Paraint	auidelines for treatment algorithm		
MOSt common in Syo			muenza			
Children should show clinical signs of improvement wit	CONSIDERATIONS					
If no improvement or worsening pursue further diagnos	stic work up as indicated, consider broadening	antibiotics and formal infectious disease c	consultatio	anon or transition to oral step-down therapy		
REFERENCES: Bradley IDSA CAP Infants & Children 2011; AAP endorsed; Ficnar B, et al. Azithromycin: 3-Day Versus 5-Day Course in the Treatment of Respiratory Tract Infections in Children. J						

Chemother. 1997;9(1):38-43. Kogan R, et al. Comparative Randomized Trial of Azithromycin versus Erythromycin and Amoxicillin for Treatment of Community-acquired Pneumonia in Children. Pediatr Pulmonol. 2003; 35(2):91-8. Approved A2SC Advisory April 2021

	Alaska	a Antimicrobial Stewardship Collab	orative ((A2SC)		
Pediatric (≥3mo)	Ambulato	ry Community Acquired Pneu	Imonia	(CAP) Treatment Guideline		
Criteria for Respiratory Dis	tress	Criteria For Outpatient Manageme	ent	Testing/Imaging for Outpatient Management		
 Tachypnea, in breaths/min: Age 0-2mo: >60 Age 2-12mo: >50 Age 1-5yo: >40 Age >5yo: >20 Dyspnea Retractions Grunting Nasal flaring Apnea Altered mental status Pulse oximetry <90% on room air 		 Mild CAP: no signs of respiratory distress Able to tolerate PO No concerns for pathogen with increased virulence (ex. CA-MRSA) Family able to carefully observe child at home, comply with therapy plan, and attend follow up appointments If patient does not meet outpatient management criteria refer to inpatient pneumonia guideline for initial workup and testing. 		 Vital Signs: Standard VS and Pulse Oximetry Labs: No routine labs indicated Influenza PCR during influenza season COVID testing Blood cultures if not fully immunized OR fails to improve/worsens after initiation of antibiotics Urinary antigen detection testing is not recommended in children; false-positive tests are common. Radiography: No routine CXR indicated AP and lateral CXR if fails initial antibiotic therapy AP and lateral CXR 4-6 weeks after diagnosis if recurrent pneumonia involving the same lobe 		
		Treatment Selection				
		Suspected Viral Pneumonia				
Most	Common Patho	bgens: Influenza A & B, Adenovirus, Respiratory Syncytial Virus, Parainfluenza				
Most common in <5yo		If influenza positive, see influer	If influenza positive, see influenza guidelines for treatment algorithm.			
Suspected Bacterial Pneumonia Most Common Pathogens: <i>Streptococcus pneumoniae, Haemophilus influenzae</i>						
Demographics	Preferred Treatment			Treatment Alternatives for β-Lactam Allergy		
Previously healthy AND Appropriately Immunized for Age						
Previously healthy AND Appropriately Immunized for Age	Amoxicillin 45 days*	img/kg PO BID (Max dose 4000mg/day) x5	Non-anaph Cefprozil	<u>nylactic β-Lactam Allergy:</u> suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days*		
Previously healthy AND Appropriately Immunized for Age	Amoxicillin 45 days* Amoxicillin/cla	img/kg PO BID (Max dose 4000mg/day) x5 avulanate	<u>Non-anaph</u> Cefprozil : Cefuroxin	<u>nylactic β-Lactam Allergy:</u> suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days*		
Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib	Amoxicillin 45 days* Amoxicillin/cla <40kg: (ES 600	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or	<u>Non-anaph</u> Cefprozil : Cefuroxin <u>Anaphylac</u>	<u>nylactic β-Lactam Allergy:</u> suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* . <u>tic β-Lactam Allergy:</u>		
Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib OR Suspicion for <i>H. influenzae</i>	Amoxicillin 45 days* Amoxicillin/cla <40kg: (ES 600 15mg/kg PO TI >40kg: 875mg x5 days*	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or ID (Max dose 4000mg/day) x5 days* /125mg PO BID PLUS Amoxicillin 1g PO BID	Non-anaph Cefprozil Cefuroxin Anaphylac Levofloxa < <u>5 years:</u> > <u>5 years</u> :	<u>nylactic β-Lactam Allergy:</u> suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* <u>ttic β-Lactam Allergy:</u> icin 10mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO daily (Max dose 750mg/day) x5 days*		
Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib OR Suspicion for <i>H. influenzae</i>	Amoxicillin 45 days* Amoxicillin/cla <40kg: (ES 600 15mg/kg PO TI >40kg: 875mg x5 days*	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or ID (Max dose 4000mg/day) x5 days* /125mg PO BID PLUS Amoxicillin 1g PO BID Suspected Atypical Pneumoni on Pathogens: <i>Mycoplasma pneumoniae, Chla</i>	Non-anaph Cefprozil Cefuroxin Anaphylac Levofloxa < <u>5 years</u> > <u>5 years</u> ia amydophila	nylactic β-Lactam Allergy: suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* tic β-Lactam Allergy: cin 10mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO daily (Max dose 750mg/day) x5 days*		
Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib OR Suspicion for <i>H. influenzae</i> Demographics	Amoxicillin 45 days* Amoxicillin/cla <40kg: (ES 600 15mg/kg PO TI >40kg: 875mg x5 days* Most Commo	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or ID (Max dose 4000mg/day) x5 days* /125mg PO BID <u>PLUS</u> Amoxicillin 1g PO BID Suspected Atypical Pneumoni on Pathogens: <i>Mycoplasma pneumoniae, Chla</i> Preferred Treatment	Non-anaph Cefprozil Cefuroxin <u>Anaphylac</u> Levofloxa < <u>5 years</u> > <u>5 years</u> ia amydophila	nylactic β-Lactam Allergy: suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* tic β-Lactam Allergy: ccin 10mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO daily (Max dose 750mg/day) x5 days* pneumoniae Alternatives		
Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib OR Suspicion for <i>H. influenzae</i> Demographics Most common in ≥5yo In ≥5yo macrolide may be empirically added if there is no clinical evidence that distinguishes bacterial from atypical CAP	Amoxicillin 45 days* Amoxicillin/cla <40kg: (ES 600 15mg/kg PO TI >40kg: 875mg x5 days* Most Commo Azithromycin days	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or ID (Max dose 4000mg/day) x5 days* /125mg PO BID PLUS Amoxicillin 1g PO BID Suspected Atypical Pneumoni on Pathogens: <i>Mycoplasma pneumoniae, Chla</i> Preferred Treatment 10mg/kg PO daily (Max dose 500mg/day) x3	Non-anaph Cefprozil Cefuroxim Anaphylac Levofloxa < <u>5 years</u> > <u>5 years</u> ia amydophila For childre Doxycycli	nylactic β-Lactam Allergy: suspension 15mg/kg PO BID (max 1000mg/day) x5 days* ne tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* ttic β-Lactam Allergy: cin 10mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO daily (Max dose 750mg/day) x5 days* pneumoniae Alternatives en >7yo: ine 1-2 mg/kg PO BID (Max dose 200mg/day) x10 days		
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Previously healthy AND Appropriately Immunized for Age Not appropriately immunized with PCV13 + Hib OR Suspicion for <i>H. influenzae</i> Demographics Most common in ≥5yo In ≥5yo macrolide may be empirically added if there is no clinical evidence that distinguishes bacterial from atypical CAP • *Exclusion criteria for short course therapy month, or lung abscess in previous 6 mont immunodeficiency, or kidney dysfunction. • Children should show clinical signs of impr	Amoxicillin 45 days* Amoxicillin/cla < <u>40kq</u> : (ES 600 15mg/kg PO TI > <u>40kq</u> : 875mg x5 days* Most Commo Azithromycin days includes: pneumo hs), empyema or r	img/kg PO BID (Max dose 4000mg/day) x5 avulanate Dmg/42.5mg/5mL) 45mg/kg PO BID or ID (Max dose 4000mg/day) x5 days* /125mg PO BID PLUS Amoxicillin 1g PO BID Suspected Atypical Pneumoniae, Chia Preferred Treatment 10mg/kg PO daily (Max dose 500mg/day) x3 CONSIDERATIONS onia with atypical pathogens, hospital acquired pneum necrotizing pneumonia, preexisting pulmonary diseas 8-72 hours	Non-anaph Cefprozil s Cefuroxim Anaphylac Levofloxa < <u>5 years</u> > <u>5 years</u> ia mydophila For childre Doxycycli monia (admis se, congenita	hylactic β-Lactam Allergy: suspension 15mg/kg PO BID (max 1000mg/day) x5 days* he tablets 15mg/kg PO BID (Max 1000mg/day) x5 days* he tablets 15mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO BID (Max dose 750mg/day) x5 days* 10mg/kg PO daily (Max dose 750mg/day) x5 days* pneumoniae Alternatives en >7yo: ine 1-2 mg/kg PO BID (Max dose 200mg/day) x10 days ssion for >48 hours in previous 2 months, CAP in previous al heart disease, history of aspiration, malignant neoplasm,		

1997;9(1):38-43. Kogan R, et al. Comparative Randomized Trial of Azithromycin versus Erythromycin and Amoxicillin for Treatment of Community-acquired Pneumonia in Children. Pediatr Pulmonol. 2003; 35(2):91-8. Pernica JM et al. Short-Course Antimicrobial Therapy for Community-Acquired Pneumonia: The SAFER Randomized Clinical Trial. JAMA Pediatrics. 2021; Published online March 08, 2021.