Acute Otitis Media (AOM)

Pediatric cases of acute otitis media are most often caused by viruses					
Symptoms & Clinical Findings	 often preceded by nasal congestion from a respiratory illness or seasonal allergies symptoms include acute ear pain (unilateral, especially in adults) and muffled hearing infants may be fussy, with excessive crying, poor feeding, or tugging at the affected ear 				
Diagnostic Testing	- to diagnose AOM, visualize a bulging or perforated tympanic membrane (TM), an air-fluid level behind the tympanic membrane, or evidence of perforated tympanic membrane with drainage - there is no routine laboratory test for AOM				
		t has failed therapy and there is drainage from		0.0	
	Adults—Add topical therapy if TM rupture	Pediatric—Treatment is Dependent on Age & Severity			
	Standard Antibiotics		Seve	ere presentation*	
	Amoxicillin-clavulanate 875 mg-	Nonsevere presentation*		OR	
	125 mg BID	AND	underlying issues* OR		
	Penicillin Allergy History (select	(select Ear pain < 48 hours		Ear pain ≥48 hours	
	ONE) (see NM O/P Allergy Risk	AND Meets ear involvement criteria:	OR Ages 6 to 23 months, with both ears affected OR		
	Assessment first)	Age 6-23 months (only 1 ear affected)			
	Low or Moderate Risk Beta-	Age ≥24 months (1-2 ears affected)			
	lactam Allergy Hx		-	Age <6 months	
	Cefuroxime^ 500 mg BID	Watchful waiting (give CDC Handout and an			
	OR Cefpodoxime^ 200 mg BID	plan for postdated prescription or repeat PRN if symptoms persist 48-72 hrs.	eat visit		
	High Risk Beta-lactam Allergy Hx	OR			
	Doxycycline 100 mg BID	Standard Antibiotics			
	If TM rupture present, consider	Amoxicillin 90 mg/kg/day <u>divided BID</u> OR if receipt of amoxicillin within 30 days, AOM refractory to amoxicillin or concurrent purulent			
	adding topical ciprofloxacin-				
	dexamethasone, ofloxacin or 2%	conjunctivitis:	For severe		
	to 3% acetic acid for 7-10 days	Amoxicillin-clavulanate 600 mg-42.9 mg/5 mL ES formulation			
Tuestussus	Do not use cefdinir or azithromycin	OR		presentations,	
Treatment	1000 mg-62.5 mg XR formulation			watchful waiting is not	
	^dissimilar drug structure from penicillins	Assessment first) Low or Moderate Risk Beta-lactam Allergy Hx Cefpodoxime^ 10 mg/kg/day divided BID (maximum dose: 400 mg/day OR Cefixime^ 8 mg/kg/day divided BID (maximum dose: 400 mg/day) High Risk Beta-lactam Allergy Hx		recommended	
	pernemins			5 6	
				Refer to antibiotic recommendations	
				as listed to the	
				left	
		Clindamycin 30 mg/kg/day <u>divided TID</u> (maximum dose: 900 mg/day)			
		Do not use cefdinir or azithromycin		llowing:	
		*Severe presentation includes ANY of the following: • fever ≥ 39°C (102.2°F) • moderate or severe ear pain			
		 purulent ear drainage *Underlying medical issues include 			
		• presence of cochlear implant			
	• immunocompromised status				
Duration of	10 days for acute otitis media in all patients except for:				
antibiotics 5 to 7 days for children age ≥24 months with nonsevere presentation and no underlying issues					
Adjunctive measures	Adjunctive measures NSAIDs or acetaminophen When to Consider Transfer to ED. When to Consider Transfer to ED.				

Key Points for Counseling Patients

- 1. NSAIDs or acetaminophen can reduce pain rapidly
- 2. By 48 to 72 hours, a child with <u>bacterial</u> AOM on effective antibiotics should have less pain, less fussiness and less fever.

When to Consider Transfer to ED

1. Headaches, neck stiffness, photophobia, confusion or mental status changes.

2. Concern for deeper infection, e.g., mastoiditis, facial paralysis.

ADSP Northwestern Medicine Antimicrobial and Diagnostic Stewardship Program