

Recommendations for Selected Empiric Antibiotic Use Among Outpatient Pediatric Patients
Division of Pediatric Infectious Diseases, Aug 2023

These are the agents generally preferred for first-line empiric therapy at Harbor-UCLA Medical Center Pediatric outpatient clinics and in the emergency department for children >60 days of age. Circumstances of individual cases (e.g., recent hospitalization or surgery, chronic medical condition, recurrence of infection) may dictate different antibiotic choices; decisions should be made on a case-by-case basis. Recommendations for adults are available on the Harbor-UCLA Infection Prevention and Control site In Antimicrobial Stewardship section.

Diagnosis	Drug and Dose	Duration	Comments
Respiratory Tract Infection			
Community-acquired Pneumonia	<p>Amoxicillin 20-25 mg/kg/DOSE PO BID (max: 2 g/DOSE)</p> <p>Consider high dose amoxicillin 45 mg/kg/DOSE PO BID if <2 years, in daycare, received antibiotics within the last month, had recent hospitalization, under immunized</p> <p>Severe penicillin allergy: Clindamycin 13 mg/kg/DOSE PO TID (max: 600 mg/DOSE)</p> <p>For children ≥5 years with features of atypical pneumonia: Consider azithromycin PO 10 mg/kg once on day 1 (max: 500 mg), followed by 5 mg/kg once daily x4 days (max: 250 mg/day)</p>	5-7 days	<p>The majority of cases of community acquired pneumonia in children, especially those < 5 years is due to viral infection. <u>Consider supportive care only.</u></p> <p>Consider antivirals if symptoms or testing suggest influenza or COVID-19.</p> <p>For high dose amox/clav use 600mg/5mL formulation.</p>
ENT Infections			
Acute Otitis Media	Amoxicillin 20-25 mg/kg/DOSE PO BID (max: 2 g/DOSE)	<2 years or severe or recurrent disease: 10 days ≥2 years: 5-7 days	Cefdinir if non-severe penicillin allergy.

	<p>Consider high dose amoxicillin 45 mg/kg/DOSE PO BID if <2 years, in daycare, received antibiotics within the last month, had recent hospitalization, under immunized</p> <p>Use amoxicillin/clavulanate if recent beta-lactam antibiotics, concurrent purulent conjunctivitis, or recurrent AOM</p>		<p>Clindamycin if credible history of immediate or serious penicillin hypersensitivity reaction.</p> <p>Children ≥24 months without severe symptoms can be offered observation and pain management if close follow up can be assured.</p> <p>For high dose amox/clav use 600mg/5mL formulation.</p>
Otitis Externa	Ciprofloxacin/dexamethasone otic 4 drops in ear BID	7 days	Can use neomycin-polymyxin B-hydrocortisone but only if intact tympanic membrane.
Acute Sinusitis	<p>Amoxicillin/clavulanate 20-25 mg/kg/DOSE PO BID (max: 2 g/DOSE)</p> <p>Consider high dose Amox/Clav 90 mg/kg/day if <2 years, in daycare, antibiotics within the last month, recent hospitalization, underimmunized.</p>	5-7 days	<p>Diagnosis requires the presence of either: (1) persistent nasal discharge or daytime cough without evidence of clinical improvement for ≥10 days; consider watchful waiting in this scenario OR (2) worsening or new onset of nasal discharge, daytime cough, or fever after initial improvement OR (3) temperature ≥39°C with either purulent nasal discharge and/or facial pain for at least 3 consecutive days.</p> <p>For high dose amox/clav use 600mg/5mL formulation.</p>
Acute Unilateral Cervical Lymphadenitis	Cephalexin 100 mg/kg/DAY divided q8 hours (max: 1 g/DOSE)	7-10 days	Consider MRSA coverage <u>only</u> if risk factors such as prior history

	<p>If periodontal disease or poor dental hygiene use amoxicillin/clavulanate 45 mg/kg/day divided q12 hours</p>		<p>of MRSA or recurrent skin and soft tissue infections in patient or close contacts. If fluctuant, drainage will greatly facilitate resolution.</p> <p>Clindamycin or TMP/SMX if credible history of immediate or serious penicillin hypersensitivity reaction.</p>
<p>Group A Streptococcal Pharyngitis</p>	<p>Penicillin VK <27 kg - 250 mg BID-TID ≥27 kg - 500 mg BID Or Amoxicillin 50 mg/kg/dose (maximum 1200 mg) once daily Or Benzathine PCN G (last choice if shortage) 27 kg - 0.6 million units IM X 1 dose ≥ 27 kg - 1.2 million units IM X 1 dose</p>	<p>10 days (for oral only. If using azithromycin then treatment is for 5 days)</p>	<p>Do not treat unless there are clinical findings of pharyngitis and testing confirms the presence of group A Streptococcus.</p> <p>If credible history of PCN allergy can use cephalexin (if non-severe reaction) or clindamycin or macrolide (if severe reaction).</p>
<p>Preseptal Cellulitis (If presumed sinus-related)</p>	<p>Amoxicillin/clavulanate 20-25 mg/kg/DOSE PO BID (max: 2 g/DOSE)</p> <p>High dose Amox/Clav 90 mg/kg/day if <2 years, in daycare, antibiotics within the last month, recent hospitalization, underimmunized.</p>	<p>7-10 days</p>	<p>If concern for MRSA can add trimethoprim-sulfa.</p> <p>If trauma related treat as with cellulitis.</p> <p>For high dose amox/clav use 600mg/5mL formulation.</p>
<p>Skin and Soft Tissue Infection</p>			
<p>Minor Skin Infection (e.g. impetigo, folliculitis, infected eczema)</p>	<p>Mupirocin 2% topical ointment applied BID Or</p>	<p>5 days</p>	<p>Topical preferred but systemic should be used if more widespread lesions</p>

	Cephalexin 25 mg/kg/DOSE PO TID (max: 1 g/DOSE)		If MRSA coverage needed use TMP-SMX- 6 mg of TMP/kg/DOSE PO BID (max: 320 mg TMP/DOSE)
Non-purulent Cellulitis	Cephalexin 25 mg/kg/DOSE PO TID (max: 1 g/DOSE) If MRSA coverage needed use TMP-SMX- 6 mg of TMP/kg/DOSE PO BID (max: 320 mg TMP/DOSE)	5 days	May extend therapy up to 7- 10 days if lack of symptom resolution at 5 days.
Purulent Cellulitis/Abscess	TMP-SMX- 6 mg of TMP/kg/DOSE PO BID (max: 320 mg TMP/DOSE)	5 days	For abscess, drainage will <u>greatly enhance</u> resolution. Cephalexin and Clindamycin can also be considered.
Genitourinary Infections			
Cystitis	School aged children >5 years with cystitis only: Nitrofurantoin (Macrobid) 100 mg/DOSE PO BID (not weight based) OR Cephalexin 25 mg/kg/DOSE PO TID (max: 1 g/DOSE)	3-5 days	For patients with a credible history of immediate or serious penicillin hypersensitivity reaction consider TMP/SMX (5 mg TMP/kg/DOSE PO BID max: 160 mg/DOSE) or ciprofloxacin (10 mg/kg/DOSE PO BID max: 500 mg/DOSE) as alternatives. Consider any recent antibiotics and positive urine cultures when choosing therapy.
Pyelonephritis	Cephalexin 25 mg/kg/DOSE PO TID (max: 1 g/DOSE) If ≥12 years: Ciprofloxacin 20-40 mg/kg/DAY PO divided q12h, max dose 500 mg	7-10 days	Can consider one dose of ceftriaxone followed by cephalexin if patient having vomiting.

Urethritis/Cervicitis in symptomatic high-risk adolescent	Concern for GC/CT: Ceftriaxone 500 mg IM (if < 150 kg, 1 gram if ≥ 150 kg) and Doxycycline monohydrate 100 mg PO BID	Ceftriaxone- 1 dose Doxycycline- 7 days	Testing is necessary. If testing is back before treatment is started, then OK to only treat for the known infection if any. Screen for HIV and syphilis.
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