

## Amoxicillin Shortage

(December 2, 2022)

Amoxicillin is on national shortage due to high utilization and supply chain issues. The shortage is expected to continue into 2023.

### Consider alternative Amoxicillin formulation:

Amoxicillin chewable tablets 250mg- These can be split and crushed

Amoxicillin capsules (250 mg or 500mg) can be opened and placed in milk, juice, applesauce, or pudding and administered immediately after mixing. This may be given by mouth or via feeding tubes (mix with 15-20ml of water for tube administration).

### Alternative agents:

Condition	Alternative Drug	Dose	Duration
<a href="#">Otitis Media</a>	watchful waiting in > 2yo and without severe disease	AAP guideline- <a href="https://publications.aap.org/pediatrics/article-abstract/131/3/e964/30912/The-Diagnosis-and-Management-of-Acute-Otitis-Media/">https://publications.aap.org/pediatrics/article-abstract/131/3/e964/30912/The-Diagnosis-and-Management-of-Acute-Otitis-Media/</a>	
	Amoxicillin-clavulanate	Infants < 3 months <ul style="list-style-type: none"> <li>30 mg/kg/day of amoxicillin component PO in 2 divided doses</li> </ul> Infants ≥ 3 months, children, and adolescents ( <b>ES formulation</b> ) <ul style="list-style-type: none"> <li>90 mg/kg/day of amoxicillin component PO in 2 divided doses;</li> <li>Maximum dose: 2000 mg/dose; 4000 mg/day</li> </ul>	7-10 days
	Cefdinir	14 mg/kg in 2 divided doses (maximum dose: 600 mg/day)	
	Cefprozil	30 mg/kg/day in 2 divided doses (maximum dose: 1000 mg/day)	
	Cefpodoxime	10 mg/kg/day in 2 divided doses (maximum dose: 400 mg/day)	
	Cefixime	8 mg/kg/day in 2 divided doses (maximum dose 400mg/day)	
	Ceftriaxone IM	50 mg/kg (max 1000 mg) daily	1-3 days
<a href="#">Community Acquired Pneumonia</a>	Amoxicillin-clavulanate	Infants < 3 months <ul style="list-style-type: none"> <li>30 mg/kg/day of amoxicillin component PO in 2 divided doses</li> </ul> Infants ≥ 3 months, children, and adolescents ( <b>ES formulation</b> ) <ul style="list-style-type: none"> <li>90 mg/kg/day of amoxicillin component PO in 2 divided doses;</li> <li>Maximum dose: 2000 mg/dose; 4000 mg/day</li> </ul>	5 days
	Cefprozil	30 mg/kg/day in 2 divided doses (maximum dose: 1000 mg/day)	
	Cefpodoxime	10 mg/kg/day in 2 divided doses (maximum dose: 400 mg/day)	
	Cefixime	8 mg/kg/day in 2 divided doses (maximum dose 400mg/day)	

Condition	Alternative Drug	Dose	Duration
<a href="#">Acute Bacterial Sinusitis</a>	Amoxicillin-clavulanate	Infants ≥ 3 months, children, and adolescents <b>(ES formulation)</b> <ul style="list-style-type: none"> <li>90 mg/kg/day of amoxicillin component PO in 2 divided doses; Maximum dose: 2000 mg/dose; 4000 mg/ day</li> </ul>	10 days
	Cefprozil	30 mg/kg/day in 2 divided doses (maximum dose: 1000 mg/day)	
	Cefpodoxime	10 mg/kg/day in 2 divided doses (maximum dose: 400 mg/day)	
	Cefixime	8 mg/kg/day in 2 divided doses (maximum dose 400mg/day)	
	Ceftriaxone IM	50 mg/kg (max 1000 mg) x 1 dose	1 day
<b>Dog/Human bite prophylaxis</b>	Amoxicillin-clavulanate	Infants ≥ 3 months, children, and adolescents 45 mg/kg/day of amoxicillin component PO in 2 divided doses; Maximum dose: 875 mg of amoxicillin component/ dose	3 days
	Clindamycin + Trimethoprim-sulfamethoxazole	25-30 mg/kg/day (clindamycin) in 3 divided doses (maximum dosed: 450mg/ dose  8-12 mg/kg/day (TMP component) in 2 divided doses	
<b>Dental Abscess or Tooth Avulsion</b>	Amoxicillin-clavulanate	Infants ≥ 3 months, children, and adolescents 45 mg/kg/day of amoxicillin component PO in 2 divided doses; Maximum dose: 875 mg of amoxicillin component/dose	14 days
	Clindamycin	10 mg/kg PO TID (max 300 mg/dose)	
<a href="#">Group A Streptococcus Pharyngitis</a>	Penicillin VK	≤27kg 250 mg PO twice daily    >27kg 500 mg PO twice daily	10 days
	Cephalexin	40 mg/kg/day in 2 divided doses; (maximum dose: 1000 mg/day)	
	Benzathine Penicillin G (Bicillin LA)	≤27kg 600,000 units IM x 1 dose >27kg 1.2 million units IM x 1 dose	1 day
<a href="#">UTI treatment</a>	Cephalexin	75 mg/kg/day in 3 divided doses (maximum dose: 1500 mg/day)	7-14 days
	Trimethoprim-sulfamethoxazole	8 mg/kg/day (TMP component) in 2 divided doses (maximum dose: 320mg/day)	
<b>Asplenia prophylaxis</b>	Penicillin VK	>2 months-3 years: 125 mg PO twice daily 3-5 years: 250 mg PO twice daily	
	Cephalexin	50 mg/kg in 2 divided doses (maximum dose: 500 mg/day)	
<b>UTI prophylaxis</b>	≥ <u>4 weeks of age</u> <b>1st choice:</b> Trimethoprim-sulfamethoxazole	2-3 mg trimethoprim (TMP)/kg/dose PO every 24 hours; Maximum dose: 160 mg/day	
	<b>2nd choice:</b> Nitrofurantoin	1-2 mg TMP/kg/dose PO every 24 hours; Maximum: 100 mg/day	
	< <u>4 weeks of age</u>	Attempt to secure amoxicillin suspension by contacting local pharmacies	

References:

- 1) Lexicomp Online, Pediatric and Neonatal Lexi-Drugs Online. Waltham, MA: UpToDate, Inc.; 2022. <https://online.lexi.com>. Accessed Dec 1, 2022.
- 2) *2021 Nelson's Pediatric Antimicrobial Therapy*. American Academy of Pediatrics, 2021.
- 3) Pasternack M. Prevention of infection in patients with impaired splenic function. Post TW, ed. UpToDate. Waltham, MA: UpToDate Inc. <http://www.uptodate.com>. Accessed 12/1/22.
- 4) The Sanford Guide to Antimicrobial Therapy. Dallas, TX :Antimicrobial Therapy, Inc .Accessed Dec 1, 2022.

DISCLAIMER: The information provided below is intended as a guide for providers caring for minor patients. It does not indicate an exclusive course of treatment or a standard of medical care. Providers should adapt these suggestions, when indicated, based on their professional judgment and taking into account individual patients and their unique characteristics.