

# Amoxicillin and Amoxicillin-clavulanic acid Therapeutic Alternatives in Pediatrics

Due to shortages in oral liquid formulations of amoxicillin and amoxicillin-clavulanic acid, alternative treatment strategies may be required. An oral suspension made from amoxicillin capsules will be available in AHS, but amoxicillin-clavulanic acid oral liquids remain unavailable. Availability in community pharmacies will vary, but if unavailable some alternative formulations and antibiotics are provided below.

<b>Table 1. For “Regular Dose” Amoxicillin, if suspension unavailable- 40-75 mg/kg/day</b>				
Weight	Suggested dosage using capsules*		Dose range (mg/kg/day)	
< 8.5 kg	Use alternative antibiotics listed here: <a href="#">Managing critical drug shortages in clinical practice</a>   <a href="#">Canadian Paediatric Society (cps.ca)</a>			
8.5-17 kg	250 mg TID		44-88	
17 kg and up	500 mg TID		</= 88	
<b>Table 2. For “High Dose” Amoxicillin, if suspension unavailable- 80-100 mg/kg/day</b>				
< 7.5 kg	Use alternative antibiotics listed here: <a href="#">Managing critical drug shortages in clinical practice</a>   <a href="#">Canadian Paediatric Society (cps.ca)</a>			
7.6-9 kg	250 mg TID		83-100	
9.1-15 kg	500 mg <b>BID</b>		67-109	
15.1-20 kg	500 mg TID		75- 100	
20.1-28 kg	750 mg TID		80-107	
28.1 kg and up	1000 mg TID		</= 107	
<b>Table 3. For “Regular Dose” Amoxicillin-clavulanic acid- 40-75 mg/kg/day amoxicillin and 5-12 mg/kg/day clavulanic acid e.g. UTI</b>				
	875/125 Amoxi-clav tablet (¼ tab= 219 mg amox, 31.25 mg clav)	500/125 Amoxi-clav tablet (¼ tab= 125 mg amox, 31.25 mg clav)	Dose range (mg/kg/day)	
			Amoxicillin	Clavulanic acid
Under 7.5 kg	Use alternative antibiotics listed here: <a href="#">Managing critical drug shortages in clinical practice</a>   <a href="#">Canadian Paediatric Society (cps.ca)</a>			
7.5-10 kg		¼ tab TID	37.5-50	9.5-12.5
10.1-16 kg	¼ tab TID		43-65	5.8-9.5
16.1-18 kg		½ tab TID	41-46	10.4-11.6
18.1-32 kg	½ tab TID		41-73	5.8-10.3
32 kg and up		1 tab TID	Up to 46	Up to 11.7

<b>Table 4. For “High Dose” Amoxicillin-clavulanic acid- 90 mg/kg/day amoxicillin and 5-12 mg/kg/day clavulanic acid</b>				
e.g. High risk acute otitis media (AOM) or failure of 1 <sup>st</sup> line therapy for AOM				
Note: must combine amoxicillin and amoxicillin-clavulanic acid products				
	Using 875/125 Amoxi-clav tablet (¼ tab= 219 mg amox, 31.25 mg clav)	Using 500/125 Amoxi-clav tablet (¼ tab= 125 mg amox, 31.25 mg clav)	Dose range (mg/kg/day)	
			Amoxicillin	Clavulanic acid
Below 10kg	Use alternative antibiotics listed here: <a href="#">Managing critical drug shortages in clinical practice   Canadian Paediatric Society (cps.ca)</a>			
10-12.5kg	¼ tab BID + 23mg/kg/dose BID of amox liquid	¼ tab BID + 33mg/kg/dose BID of amox liquid	81-90	5-6
12.6-15kg	¼ tab TID + 15mg/kg/dose TID of amox liquid	¼ tab TID + 22mg/kg/dose TID of amox liquid	89-97	6-7.5
15.1-17.5kg	½ tab BID + 16mg/kg/dose BID of amox liquid	½ tab BID + 28mg/kg/dose BID of amox liquid	82-90	7-8.2
17.6-22.5kg	½ tab BID + 20mg/kg/dose BID of amox liquid	½ tab BID + 31mg/kg/dose BID of amox liquid	79-90	5.6-7
Above 22.5 kg	1 tab BID		50- 77.4	7- 11

\* Capsules can be opened and mixed with a small amount (2-3 tbsp) of palatable food/drink

If the above options are not available or suitable, alternative antibiotic options are listed here: [Managing critical drug shortages in clinical practice | Canadian Paediatric Society \(cps.ca\)](#) \*

\*Notes: Avoid use of cephalexin for UTIs in febrile children. Treat bacterial sinusitis as for acute otitis media.

**All antibiotic oral suspension recommendations are subject to availability at the time; multiple agents are in shortage situations.**

Reviewed by: Otto Vanderkooi, Joan Robinson (Peds ID); Susan Fryters, Marcel Romanick, Deonne Dersch-Mills, Teagan Zeggil (Pharmacy)

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