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Newborn use only

Alert	Not for intramuscular administration.
	The pharmacokinetics of clavulanate has not been evaluated in neonates.
	Dose and frequency are product specific and the products are not interchangeable.
	5:1 ratio of amoxicillin and clavulanate are used for intravenous and
	4:1 ratios of amoxicillin and clavulanate used for oral administrations in neonates
Indication	Directed treatment of susceptible bacterial infections covered by amoxicillin but producing beta-
malcation	lactamase when amoxicillin alone is ineffective; including skin infection, ear infection, sinusitis, urinary
	tract infection, upper and lower respiratory tract infection, and animal bites. [1,2]
Action	Semi-synthetic penicillin with similar antibacterial spectrum as ampicillin. It is bactericidal against both
Action	gram-positive and gram-negative bacteria but is destroyed by beta-lactamase produced by many of
	these bacteria. Clavulanate binds irreversibly with beta-lactamases produced by a variety of gram-
	positive and gram-negative microorganisms and protects amoxicillin from degradation. Thus extending
	the spectrum of amoxicillin. [1]
	Amoxicillin is better-absorbed than ampicillin, following oral administration. [1]
Drug type	Antimicrobial agent – Beta-lactam aminopenicillin and Beta-lactamase inhibitor combination
Trade name	Oral: Curam 125mg/31.25mg Powder for Suspension
	IV: Amoxiclav Juno 1000/200, Curam 500/100, Curam 1000/200
Presentation	IV
	500mg/100mg vial (500 mg of amoxicillin and 100 mg of clavulanic acid) [5:1 ratio]
	1000mg/200mg vial (1000 mg of amoxicillin and 200 mg of clavulanic acid) [5:1 ratio].
	Vials containing alternative ratios have not been included in this formulary.
	Oral
	Reconstituted suspension (125 mg amoxicillin and 31.25 mg clavulanate per 5 mL) [4:1 ratio].
Dosage	Doses are based on amoxicillin component
	IV:
	25 mg (of amoxicillin component)/kg/dose, 12 hourly. [1-4]
	Oral:
	15-20 mg (of amoxicillin component)/kg/dose, 12 hourly. [5]
Dose adjustment	Therapeutic hypothermia: Insufficient information to recommend any specific dose adjustment.
	ECMO: 25 to 50 mg/kg every 6 hours in paediatric intensive care patients after cardiac surgery may not
	be adequate.
	Renal impairment: Consider alternate antibiotic in moderate to severe renal impairment.
<b>NA</b>	Hepatic: No dose adjustment required. Monitor hepatic function closely. [3]
Maximum dose	ORAL –90 mg/kg/day.
Total cumulative	
dose	
Route	IV
	Oral
Preparation	IV
	Add 9.5 mL of water for injection to the <b>500mg/100 mg vial</b> to make a 50 mg/mL solution OR
	Add 19.1 mL of water for injection to the <b>1000mg/200 mg</b> vial to make a 50 mg/mL solution [6]
	FURTHER DILUTE
	Draw up 3 mL (150mg of amoxicillin equivalent) of the above solution and add 12 mL of sodium
	chloride 0.9% to make a final volume of 15 mL with a final concentration of 10 mg/mL. [6]
	ORAL
	Manufacturer's recommendations should guide reconstitution of the oral suspension as multiple
	brands of amoxicillin-clavulanate are available.
Administration	IV infusion: over 30 to 40 minutes. [4]

2020

Amoxicillin-clavulanate
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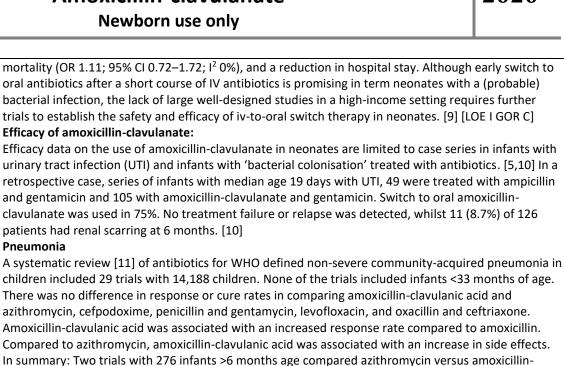
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	Oral: Administer at the start of a feed (to increase absorption and decrease stomach upset); administer
	around-the-clock to promote less variation in peak and trough serum levels. Shake suspension well
	before measuring the dose. The dose may be mixed with milk. After mixing, administer immediately.
Monitoring	Renal and hepatic function, full blood count if on prolonged therapy.
Contraindications	Hypersensitivity to penicillins, cephalosporins and carbapenems.
	Previous history of jaundice/hepatic dysfunction associated with the combination or amoxicillin or
	clavulanic acid.
	Severe renal impairment (creatinine clearance less than 30 mL/minute).
	Note: infants <7 days, very preterm infants and sick infants frequently have a creatinine clearance <30
	mL/minute.
Precautions	In moderate renal impairment: increase the dosing interval and maintain adequate fluid intake,
	especially with IV doses, to reduce the possibility of amoxicillin crystalluria.
	Hepatic dysfunction: monitor liver function tests.
	Concurrent use in CMV infection increases risk of rash.
	Oral suspension - contains aspartame (source of phenylketonuria), therefore use with caution in
	patients with phenylketonuria.
Drug interactions	Warfarin: increased risk of bleeding.
	Tetracycline: reduction of efficacy.
Adverse reactions	Mucositis, oral candidiasis, mild to life-threatening Clostridium difficile-associated diarrhoea, life-
	threatening hepatic dysfunction, and skin rashes including Stevens-Johnson syndrome, Toxic epidermal
	necrolysis and severe hypersensitivity reactions such as anaphylaxis have been reported.
Compatibility	Fluids: sodium chloride 0.9%, glucose 5% (by Y-site only), Hartmann's, Ringer's.
	Y-site: No information.
Incompatibility	Fluids : Glucose 5%
	Drugs: amikacin, gentamicin, tobramycin, amiodarone, ciprofloxacin, metronidazole, sodium
	bicarbonate.
Stability	IV: the reconstituted solution is stable for 20 minutes at 25 °C. Diluted IV solution: stable in sodium
	chloride 0.9% for 4 hours and in Hartmann's and Ringer's for 3 hours at 25 °C. Stable in sodium chloride
	0.9% for 8 hours at 2 to 8 °C when added to a pre-refrigerated bag.
<u> </u>	Oral: The medication mixed with milk should be administered immediately.
Storage	Vial: store below 25 °C. Protect from light. Oral: Store dry powder for oral suspension at 20 to 25°C. Store reconstituted suspension at 2 to 8 °C.
	Discard unused suspension after 7 days.
Evainianta	Oral
Excipients	Curam Powder for Suspension: Lemon Flavouring , Peach-Apricot Flavouring, citric acid, sodium citrate,
	aspartame, purified talc, Orange Flavouring, Guar Gum and silicon dioxide. Contains sulfites. When
	reconstituted as directed, Curam 125/31.25 contains aspartame 8.5mg/5mL. Each 5mL of suspension
	contains 0.16mmol of potassium.
Special	
comments	
	Background
Evidence	Amoxicillin-clavulanate shows good activity against organisms associated with acute otitis media and
	community acquired pneumonia in childhood including penicillin-susceptible and -intermediate strains
	of Streptococcus pneumoniae, and $\beta$ -lactamase producing strains of Haemophilus influenzae and
	Moraxella catarrhalis. A high-dose formulation has been developed with the aim of providing better
	coverage for penicillin-resistant strains. [7] Gram-negative organisms require higher and more
	sustained levels of both amoxicillin and clavulanic-acid for optimal therapy. For clinical syndromes in
	which Gram-negative pathogens are causative (e.g. urinary tract infection), a narrower ratio (e.g. 4:1)
	with more frequent dosing (three or four rather than two times daily) is needed for efficacy. [8]
	Oral antibiotics for neonatal infections: A systematic review of studies that assessed oral versus
	parenteral antibiotics and switching to oral therapy from parenteral antibiotics in newborns included
	31 studies. Oral antibiotics reached maximum concentrations later and had lower bioavailability, but in
	the majority of cases, adequate serum levels for bacterial killing were reached. Furthermore, studies
	on efficacy of oral antibiotics showed similar relapse rates (OR 0.95; 95% CI 0.79–1.16; I <sup>2</sup> 0%) and
ANMF Consensus Group	

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Efficacy of amoxicillin-clavulanate:

Pneumonia



Compared to azithromycin, amoxicillin-clavulanic acid was associated with an increase in side effects. In summary: Two trials with 276 infants >6 months age compared azithromycin versus amoxicillinclavulanic acid 40 mg/kg/day for 10 days with meta-analysis finding no difference in failure rate [OR 1.21, 95% CI 0.42, 3.53] but more side effects with amoxicillin-clavulanic acid [OR 0.15, 95% CI 0.04, 0.61]. One trial in 100 infants  $\geq$ 2 years age compared amoxicillin-clavulanic acid 250 mg + 62.5 mg or 500 + 125 mg tds) versus amoxicillin reported reduced poor or no response [OR 0.08, 95% CI 0.01, 0.67], increased cure rate OR 95% CI 10.44 [2.85, 38.21] and no difference in complications [OR 5.21, 95% CI 0.24, 111.24]. One trial with 278 infants aged ≥3 months compared cefpodoxime versus amoxicillin-clavulanic acid 6 to 13 mg/kg/day for 10 days and reported no difference in cure rate at end of treatment [OR 0.69, 95% CI 0.18, 2.60]. One trial with 71 infants aged 2 to 59 months compared penicillin and gentamycin versus amoxicillin-clavulanic acid 30 mg/kg IV q12 hourly for at least 3 days changed to oral when able to feed and reported no difference in failure rate [OR 0.86, 95% CI 0.05, 14.39]. One trial with 539 infants ≥6 months age compared levofloxacin versus amoxicillin-clavulanic acid 22.5 mg/kg/dose 12 hourly for 10 days and reported no difference in cure rate [OR 1.05, 95% CI 0.46, 2.42]. One trial with 104 infants ≥2 months age compared oxacillin and ceftriaxone versus amoxicillin-clavulanic acid 100 mg/kg/day every 8 hours for 10 days and reported no difference in failure rate OR 95% CI 0.98 [0.33, 2.92] but decreased time for improvement in tachypnoea [MD -1.0, 95% CI -0.11, -1.89] and decreased length of stay [MD -3.40, 95% CI -5.46, -1.34].

#### Acute otitis media

A systematic review of antibiotics for acute otitis media included 13 RCTs with 3401 children from highincome countries. [12] Early antibiotics compared had no early effect on pain, reduced pain in the days following, and reduced the number of children with tympanic perforations, contralateral otitis episodes and abnormal tympanometry findings at two to four weeks and at six to eight weeks compared with placebo. No serious complications occurred in either the antibiotic or the expectant observation group. Immediate antibiotics were associated with a substantial increased risk of vomiting, diarrhoea or rash (RR 1.71, 95% CI 1.24 to 2.36; NNTH 9). Three trials in 611 infants ≥6 months compared amoxicillin-clavulanic acid up to 90 + 6.8 mg/kg/day for 10 days to placebo and reported reduced pain, contralateral otitis media and abnormal tympanometry at 2 to 4 weeks, but increased vomiting, diarrhoea or rash. Conclusion: The benefits of antibiotics must be weighed against the possible harms: for every 14 children treated with antibiotics one child experienced an adverse event such as vomiting, diarrhoea or rash. Antibiotics are most useful in children under 2 years of age, with bilateral AOM, or with both AOM and otorrhoea. [LOE I GOR B]

#### Urinary tract infection

Two systematic reviews have assessed the effect of antibiotics for treating uncomplicated lower urinary tract infection in children [13,14]. The more recent included 16 RCTs in 1,116 children from 2 weeks to 18 years age [13]. The review found a long course (10-day) antibiotic treatment is more likely to eliminate bacteria from the urine than single-dose treatments, but there was no difference in rates of persistent bacteriuria, recurrence or reinfection. A single RCT in 48 children 1 to 13 years of 3 versus

Amoxicillin-clavulanate

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	cluded IV or oral amoxicillin-clavulanate as a
-	herapy of 10 to 21 days. [16] [LOE I GOR B for infants
	ective as a longer duration of IV antibiotic therapy
	n for two to four days followed by oral therapy with
	effectively with oral antibiotics. If IV antibiotic
	otal duration of 10 to 14 days, suggesting that
	or 10 to 14 days were as effective as sequential IV
	dren >1 month of age and was biased towards
ematic review assessed the effect o	antibiotics for treating acute pyelonephritis in
moxicillin-clavulanate (dose not rep	rted) in 7 infants to 4 other antibiotics for non-severe
/20 versus 2/17; RR 0.85, 95% CI 0.1 moxicillin-clavulanate (dose not rep	2.55, 95% CI 0.82, 7.94) or UTI 1 to 15 months after 8, 5.41). A single RCT in infants <4 months age rted) in 7 infants to 4 other antibiotics for non-severe
e o	orted no difference in rate of resolution tematic review assessed the effect of a e review included 27 RCTs in 4452 chill o were less sick. [16] Oral antibiotics for

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Practice points	bioavailability of 31 to 99%. [7] However, neonates may have reduced bioavailability of oral amoxicillin. In a crossover study in 14 fasting newborn infants 6-13 days old given IM ampicillin or amoxicillin 50 mg/kg twice daily, the mean peak level was 58% (range 35-96%) for oral compared to parenteral dosing, and area under the time-concentration curve was 75% (range 60-101%). [21] There are no data for oral bioavailability of clavulanate in neonates. To decrease the patient's medication burden by prescribing only twice daily amoxicillin-clavulanate, then a higher ratio (e.g. 7:1) can be employed in order to increase amoxicillin exposure (to improve efficacy) and limit clavulanate exposure (to reduce toxicity). Twice-daily regimens are commonly recommended in the treatment of acute otitis media or community-acquired pneumonia during childhood. [8] Gram-negative organisms require higher and more sustained levels of both amoxicillin as well as the clavulanic-acid component for optimal therapy. For clinical syndromes in which Gram-negative pathogens are causative (e.g. urinary tract infection), a narrower ratio (e.g. 4:1) with more frequent dosing (three or four rather than two times daily) is needed for efficacy. [8] For Gram-positive pathogens, which appear to have a higher affinity for clavulanate and are also susceptible to lower amoxicillin concentrations, combinations with a wider ratio (e.g. 7:1) appear to be sufficient in terms of clavulanate exposure. [8] Extreme ratios of 14:1 or 16:1 should be used with caution until more data are available.[8] Impaired renal function: Extra-renal elimination of clavulanate is much more rapid than that of amoxicillin. Whereas the elimination half-life of amoxicillin increases 6-fold in patients with severe renal failure, the corresponding increase for clavulanate is only 2.6-fold. [3] No dosage adjustments are required for patients with impaired hepatic function, but amoxicillin- clavulanic should be used with caution and hepatic function monitored. [3] The pharmacokin
	although some efficacy data exist for infants >1 month age. [9] [LOE I GOR C]
	Amoxicillin-clavulanic acid should be considered a 2 <sup>nd</sup> line agent for infants with WHO defined non- severe community-acquired pneumonia. There are no data for infants <3 months age. [LOE I, GOR B]
	Amoxicillin-clavulanate should be considered a 2 <sup>nd</sup> line agent for infants with a urinary tract infection
	or for oral to IV switch therapy for pyelonephritis with a sensitive organism for infants >1 month age. [LOE I GOR B]
References	<ol> <li>Petri WA Jr. Penicillins, cephalosporins and beta-lactam antibiotics. In Goodman and Gilman's The Pharmacologic Basis of Therapeutics. 12th Ed. The McGrath-Hill Companies. P1477-1503.</li> <li>MIMS online. Amoxicillin-clavulanic acid. Accessed on 21st October 2019.</li> <li>Kucers' The use of antibiotics. A clinical review of antibacterial, antifungal, antiparasitic and antiviral drugs. 6th ed. Grayson LM CS, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller PA, editor: CRC Press, Taylor &amp; Francis Group; 2013.</li> <li>BNFC https://www.medicinescomplete.com.acs.hcn.com.au/#/content/bnfc/_522717287?hspl=augmen tin#DMD94411000001100</li> <li>Blond MH, Gold F, Marchand S, Pierre F, Congard B, Soutoul JH, Laugier J. Orally administered antibiotic treatment of infected neonates. A prospective study in a maternity unit. [French]. Journal de Gynecologie Obstetrique et Biologie de la Reproduction. 1990; 19:1057-60.</li> <li>MerativeTM Micromedex® Complete IV Compatibility (electronic version). Merative, Ann Arbor, Michigan, USA. Available at: https://www.micromedexsolutions.com/ (cited: 16<sup>th</sup> November 2020).</li> <li>Easton J, Noble S, Perry CM, Cuffini AM, Jacobs MR, Subba Rao SD, Pichichero ME, Thornsberry C. Amoxicillin/clavulanic acid: A review of its use in the management of paediatric patients with</li> </ol>
	<ul><li>acute otitis media. Drugs. 2003; 63:311-40.</li><li>8. Huttner A, Bielicki J, Clements MN, Frimodt-Moller N, Muller AE, Paccaud JP, Mouton JW. Oral</li></ul>
	<ul> <li>amoxicillin and amoxicillin-clavulanic acid: properties, indications and usage. Clinical Microbiology and Infection. 2020.</li> <li>Keij FM, Kornelisse RF, Hartwig NG, Reiss IKM, Allegaert K, Tramper-Stranders GA. Oral antibiotics for poppatal infections: A systematic review and meta analysis. J Antimicroh Chemether. 2019.</li> </ul>
	for neonatal infections: A systematic review and meta-analysis. J Antimicrob Chemother. 2019; 74:3150-61.
ANMF Consensus Group	

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10.	Magin EC, Garcia-Garcia JJ, Sert SZ, Giralt AG, Cubells CL. Efficacy of short-term intravenous antibiotic in neonates with urinary tract infection. 2007; 1:83-6.
11.	Lodha R, Kabra SK, Pandey RM. Antibiotics for community-acquired pneumonia in children.
	Cochrane Database Syst Rev. 2013:CD004874.
12.	Venekamp RP, Burton MJ, van Dongen TMA, et al. Antibiotics for otitis media with effusion in
	children. Cochrane Database of Systematic Reviews 2016, Issue 6. Art. No.: CD009163.
13.	Fitzgerald A, Mori R, Lakhanpaul M, Tullus K. Antibiotics for treating lower urinary tract infection in
	children. Cochrane Database Syst Rev. 2012:CD006857.
14.	Michael M, Hodson EM, Craig JC, Martin S, Moyer VA. Short versus standard duration oral
	antibiotic therapy for acute urinary tract infection in children. Cochrane Database Syst Rev.
	2003:CD003966.
15.	Sanchez UC, Balaguer A. Treatment for the urinary low tract infection. A study of 5 antibiotics.
	Anales Espanoles de Pediatria. 1990; 33(Suppl 41):85-6.
16.	Strohmeier Y, Hodson EM, Willis NS, Webster AC, Craig JC. Antibiotics for acute pyelonephritis in
	children. Cochrane Database Syst Rev. 2014:CD003772.
17.	Fleisher GR, Wilmott CM, Campos JM. Amoxicillin combined with clavulanic acid for the treatment
	of soft tissue infections in children. Antimicrob Agents Chemother. 1983; 24:679-81.
18.	Kar PK. Use of Amoxicillin and Clavulanic Acid (Augmentin) in the Treatment of Skin and Soft Tissue
	Infections in Children. Med J Armed Forces India. 1997; 53:87-90.
19.	Salvo F, De Sarro A, Caputi AP, Polimeni G. Amoxicillin and amoxicillin plus clavulanate: A safety
	review. Expert Opinion on Drug Safety. 2009; 8:111-8.
20.	Lonsdale DO, Baker EH, Kipper K, Barker C, Philips B, Rhodes A, Sharland M, Standing JF. Scaling
	beta-lactam antimicrobial pharmacokinetics from early life to old age. British Journal of Clinical
	Pharmacology. 2019; 85:316-46.
21.	Lonnerholm G, Bengtsson S, Ewald U. Oral Pivampicillin and amoxycillin in newborn infants.
	Scandinavian Journal of Infectious Diseases. 1982; 14:127-30.

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