

**Neonatal Drug Guidelines**  
**UCSF Benioff Children's Hospital**  
 2019 – 2021

<b>Drug</b>	<b>Dose</b>	<b>Interval</b>	<b>Mode</b>
<b>Antibacterials/Antifungals/Antivirals:</b>			
Acyclovir	20 mg/kg/dose	q 8 hours	IV
Amphotericin	Conventional (Fungizone®)	1 mg/kg/dose	q 24 hours
	Liposomal (Ambisome®)	5 mg/kg/dose	q 24 hours
Ampicillin	Meningitis	100 mg/kg/dose	see Interval A
	Non-meningitis	50 mg/kg/dose	see Interval A
Azithromycin	(pertussis)	10 mg/kg/dose	q 24 hours x 5 days
Cefazolin	25 mg/kg/dose	see Interval B	IV
Cefepime		50 mg/kg/dose	q 12 hours
	Meningitis		q 8 hours
Cefotaxime	50 mg/kg/dose	see Interval A	IV
	Meningitis	see Interval C	IV
Ceftriaxone	<i>May be considered in neonates ≥ 41 weeks corrected GA and &gt; 14 days PNA without hyperbilirubinemia or any anticipated calcium containing IV solutions within 48 hours of ceftriaxone therapy. Consult pharmacist for verification of criteria and dosing guidance.</i>		
Ceftazidime	50 mg/kg/dose	see Interval B	IV
Clindamycin	see Column E	q 8 hours	IV
Fluconazole	Treatment	LOAD 25 mg/kg x1, then 12 mg/kg/dose	q 24 hours
	Prophylaxis	6 mg/kg/dose:	
		≤ 29 wks corr. GA & ≤ 28 d PNA:	q 72 hours
> 29 wks corr. GA or > 28 d PNA:	q 48 hours		
Gentamicin and Tobramycin	see chart at bottom for dosing and interval		IV
Meropenem	20 mg/kg/dose (40 mg/kg/dose for meningitis/pseudomonas)	< 32 weeks GA & < 14 days PNA	q 12 hours
		> 32 weeks GA or ≥ 14 days PNA	q 8 hours
			IV
Metronidazole	LOAD 15 mg/kg x1,	≤ 33 weeks corr. GA: 7.5 mg/kg/dose	q 12 hours
	followed 8-12 hours later by:	34-40 weeks corr. GA: 7.5 mg/kg/dose	q 8 hours
		≥ 41 weeks corr. GA: 10 mg/kg/dose	q 8 hours
Nafcillin	50 mg/kg/dose	see Interval A	IV
PenicillinG (aq) congenital syphilis:	50,000 units/kg/dose x 10 days	see Interval A	IV
Piperacillin/tazobactam	Sepsis: 80 mg piperacillin/kg/dose	see Interval C	IV
	Pseudomonas: 100 mg piperacillin/kg/dose		
TMP/SMX (Bactrim/Septtra)	<i>Generally avoided ≤44 weeks corrected Gestational Age</i>		
Vancomycin	≤ 29 wks corr. GA: 10 mg/kg/dose	q 12 hours	
	> 29 wks corr. GA: 15 mg/kg/dose	see Interval D	IV

<b>Corrected Gestational age (weeks)</b>	<b>Postnatal age (days)</b>	<b>Interval A</b>	<b>Interval B</b>	<b>Interval C</b>	<b>Interval D</b>	<b>Column E</b>
≤ 29	0 – 28	q 12°	q 12°	q 12°	see drug entry	4 mg/kg/dose
	> 28	q 8°	q 8°	q 8°		
30 – 36	0 – 14	q 12°	q 12°	q 8°	q 12°	6 mg/kg/dose
	> 14	q 8°	q 8°	q 6°	q 8°	
37 – 44	0 – 7	q 12°	q 12°	q 8°	q 12°	8 mg/kg/dose
	> 7	q 8°	q 8°	q 6°	q 8°	
≥ 45	All	q 6°	q 8°	q 6°	q 6°	10 mg/kg/dose

**Chart below is for dosing of Gentamicin & Tobramycin ONLY**

**BIRTH to 1 MONTH**

Gestational Age (weeks)	Dose	Interval
≤ 28	3.5 mg/kg/dose	q 36 hours
29 – 34	3.5 mg/kg/dose	q 24 hours
≥ 35	5 mg/kg/dose	q 24 hours (q36h for HIE or significant asphyxia)

**> 1 MONTH POSTNATAL**

Corrected Gestational Age (weeks)	Dose	Interval
< 35	2.5 mg/kg/dose	q 12 hours
≥ 35		q 8 hours <sup>^</sup>

< 35 week GA: Order Peak/Trough with 4<sup>th</sup> dose  
 ≥ 35 week GA: Order Trough ONLY with 4<sup>th</sup> dose  
 (for HIE or significant asphyxia, P/T with 3<sup>rd</sup> dose)

<sup>^</sup>Renal or cardiac dysfunction, use 2.5 mg/kg/dose IV q12 to 24 hours