

Neonatal Drug Guidelines
UCSF Children's Hospital
6/05 edition 1

<u>Drug</u>	<u>Dose</u>	<u>Interval</u>	<u>Mode</u>
Antibacterials/Antifungals/Antivirals:			
Acyclovir	20 mg/kg/dose	q 8 hours	IV
Amphotericin B	1 mg/kg/dose	q 24 hours	IV
Amphotericin Liposomal	5 mg/kg/dose	q 24 hours	IV
Ampicillin	200 mg/kg/day	divided see Interval 2	IV
Azithromycin	10 mg/kg/dose	x 1 dose day 1	
	5 mg/kg/dose subsequent days	q 24 hours	IV/PO
Cefazolin (Ancef)	25 mg/kg/dose	see Interval 3	IV
Cefepime	50 mg/kg/dose	q 12 hours	IV
	Meningitis	q 8 hours	IV
Cefotaxime	50 mg/kg/dose	see Interval 2	IV
Ceftazidime	50 mg/kg/dose	see Interval 3	IV
Clindamycin	5 – 7.5 mg/kg/dose	see Interval 1	IV
Fluconazole	Treatment	6 – 12 mg/kg/dose	q 24 hours
	Prophylaxis	3 mg/kg/dose	q 24 hours
Gentamicin and Tobramycin	see chart at bottom for dosing and interval		IV
Meropenem			
	Sepsis	20 mg/kg/dose < 36 weeks GA	q 12 hours
		> 36 weeks GA	q 8 hours
	Meningitis	40 mg/kg/dose	q 8 hours
Metronidazole	7.5 mg/kg/dose	see Interval 4	IV
Nafcillin	25 mg/kg/dose	see Interval 2	IV
PenicillinG (aqueous)	50,000 units/kg/dose	see Interval 3	IV
	*Use restricted for treatment of congenital syphilis		
Piperacillin/Tazobactam (Zosyn)	50 mg/kg/dose	see Interval 2	IV
TMP/SMX (Bactrim/Septera)			
	*Caution in < 2 months	5 mg/kg/dose	q 6 – 8 hours
Vancomycin	15 mg/kg/dose	see Interval 5	IV

Gestational age (weeks)	Postnatal age (days)	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5
≤ 29	0 – 28	q 12 ^o			q 48 ^o	q 18 ^o
	> 28	q 8 ^o			q 24 ^o	q 12 ^o
30 – 36	0 – 14	q 12 ^o			q 24 ^o	q 12 ^o
	> 14	q 8 ^o			q 12 ^o	q 8 ^o
37 – 44	0 – 7	q 8 ^o	q 12 ^o			q 12 ^o
	> 7	q 6 ^o	q 8 ^o			q 8 ^o
≥ 45	All	q 6 ^o	q 6 ^o	q 8 ^o		q 8 ^o

Chart below is for dosing of Gentamicin & Tobramycin ONLY

BIRTH to 1 MONTH

Gestational Age (weeks)	Dose	Interval
< 35	3.5 mg/kg/dose	q 24 hours
≥ 35	5 mg/kg/dose	q 24 hours

> 1 MONTH POSTNATAL

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

*Renal or cardiac dysfunction, use 2.5 mg/kg/dose IV q 12 to 24 hours

References:

Taketomo et al.: Pediatric Dosage Handbook, ed. 11, 2005, Young and Mangum: Neofax, ed. 17, 2004.
University of California San Francisco Intensive Care Nursery Housestaff Manual, ed. 8, 2003.
Please contact Sarah Scarpace, PharmD pager 719-7724 for questions related to dosing card content

Anticonvulsants:

Lorazepam (Ativan)	0.05 – 0.1 mg/kg	may repeat q 5 min x 3 doses	IV
Phenobarbital	20 mg/kg (loading)		IV
	4 mg/kg/day (maintenance)	divided q 12 hours	IV/PO

Cardiovascular:

Dopamine/Dobutamine	2.5 – 30 mcg/kg/min	IV Infusion	IV
	<i>**Dopamine usually more effective in preterm and newborn babies</i>		
Epinephrine	0.01 – 0.5 mcg/kg/min	IV Infusion	IV
Alprostadil (PGE-1)	0.00625 – 0.1 mcg/kg/min	IV Infusion	IV
Calcium Gluconate	Start at 50 (max 200) mg/kg/dose	q 6 hours	IV
Captopril	Start 0.1 mg/kg/dose	x 1 as test dose then q 8 hours if tolerated	PO
Calcium Chloride 10%	35 – 70 mg/kg/dose	Code ONLY	IV
	(provides 10 – 20 mg/kg/dose elemental Ca+)		

Indomethacin

Gestational Age (weeks)	Weight	1 st dose	2 nd dose	3 rd dose (24 hours after 2 nd dose)
< 28 <i>Prophylaxis</i>	All		0.1 mg/kg/dose (24 hours after 1 st dose)	0.1 mg/kg/dose (4 th , 5 th , and 6 th doses q24h may be necessary)
≥ 28 <i>Treatment</i>	1000 – 1250 g	0.2 mg/kg/dose	0.1 mg/kg/dose (12 hours after 1 st dose)	0.1 mg/kg/dose
	>1250 g		0.2 mg/kg/dose (12 hours after 1 st dose)	0.2 mg/kg/dose

Diuretics:

Chlorothiazide (Diuril)	1 – 4 mg/kg/dose	q 12 hours	IV
	10 – 20 mg/kg/dose	q 12 hours	PO
Furosemide (Lasix)	0.5 – 1 mg/kg/dose	varies	IV
	1 – 2 mg/kg/dose	varies	PO
Spirolactone (Aldactone)	1 mg/kg/dose	q 12 hours	PO

Gastrointestinal:

Ranitidine (Zantac)	1 mg/kg/dose	q 12 hours	IV
	1 – 2 mg/kg/dose	q 12 hours	PO
Metoclopramide (Reglan)	0.1 – 0.2 mg/kg/dose	q 6 hours	IV/PO
Lansoprazole (Prevacid)	1 mg/kg/dose	q 24 hours	PO

Miscellaneous:

Ferrous sulfate	<i>See ICN Vitamin Policy for specific dosing</i>		
w/ Epo	3 – 6 mg/kg/day elemental iron	once or twice daily	PO
w/o Epo	0 – 4 mg/kg/day elemental iron	once or twice daily	PO
Erythropoietin	250 units/kg/dose	q Mon, Wed, Fri	SQ
Vit E	15 units/dose	once daily	PO
Tromethamine (THAM)	Dose (mL of 0.3 Molar) = kg x base deficit (mEq/L) x 1.1		
Sodium Bicarbonate	Dose (mEq) = base deficit (mEq/L) x 0.3 x kg		

Ophthalmologic:

Cyclomydril	1 drop in both eyes	q 5 minutes x 3 doses	OU
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Paralytics:

Pancuronium	0.1 mg/kg/dose	q 30 – 60 minutes prn	IV
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Respiratory:

Calfactant (Infasurf)	3 mL/kg/dose	q 12 hours	ETT
Caffeine citrate	20 mg/kg/dose (loading dose)		PO
	5 mg/kg/dose (maintenance)	q 24 hours	PO

Sedation/Analgesia:

Chloral hydrate	25 mg/kg/dose	q 24 hours prn	PO
Fentanyl	1 – 2 mcg/kg/dose	q 1 hour prn	IV
	1 mcg/kg/hour	IV Infusion	IV
Lorazepam (Ativan)	0.05 – 0.1 mg/kg/dose	q 6 – 8 hours prn	IV/PO
Morphine (Duramorph)	0.05 – 0.1 mg/kg/dose	q 2 – 6 hours prn	IV
	20 mcg/kg/hr	IV infusion	IV
Pentobarbital	1 – 2 mg/kg/dose, may repeat	for procedure	IV