

COMMONLY USED DRUGS FOR INFANTS IN THE NICU

2007/04 (審)

藥品	路徑	劑量	說明
Acetaminophen (Anti-phen)	PO	10-15 mg/kg/dose q4-6h 0.5 ml/kg/dose	Max: 5 doses/day
Adenosine	IV	0.1-0.1-0.2 mg/kg 3-5 mins repeat	Rapid IV push
Albumin	IV	1 gm/kg	25% dilute to 5%
Atropine	IV	0.01 mg/kg	Minimum dose: 0.10 mg
Calcium Gluconate 10%	IV	1-2 ml/kg/dose q6-q8h	
Chloral Hydrate	PO, PR	0.5ml/kg	Used for sedation; can cause gastric irritation or severe bronchospasm if aspirated
Cisapride	PO	0.1-0.3 mg/kg/dose q6-8 hr, 15-30 min before feeding if possible	0.2mg/kg/dose TID is routine starting dose. To facilitate gastric emptying, and diminish reflux
Cimetidine	IV	2.5-5 mg/kg/dose q6 to q12 h	
D10W	IV	2 cc/kg/dose	
Dexamethasone	IV	0.25 mg/kg/dose q8h 3 dose before extubation	
Diazepam	IV	Sedative: 0.02-0.3 mg/kg/dose q6-8h Seizures: 0.1-0.3 mg/kg/dose IV slow push up to total initial dose of 1.0 mg/kg	Caution : respiratory depression and hypotension
Digoxin	PO, IV	TDD: premature: 20µg/kg (0.05 ml/kg) neonate: 30 µg/kg (0.75 ml/kg) 1 m/o-2y/o: 40-50 µg/kg (0.1 ml/kg) >2 y/o: 30-40 µg/kg	Side Effects: conduction defects, emesis, or ventricular arrhythmias. Check with individual Cardiologists regarding their preference of TDD and maintenance dose.

		Interval: 1/2-1/4-/14 TDD q12h Maintenance: 1/8 TDD q12h	
Dobutamine	IV	2.5-20 µg/kg/min	See formula below
Dopamine	IV	2.5-20 µg/kg/min	See formula below

Amount of drug in mg added to 100 ml of IV fluid :

$$? \text{ mg/100ml IV fluid} = [\text{Weight (kg)} \times 6 \times \text{dosage(mcg/kg/min)}] / \text{IV infusion rate (ml/hr)}$$

Epinephrine(1:10,000)	IV, ET	Resuscitation: 0.1-0.3 ml/kg/dose Hypotension: 0.01-0.1 µg/kg/min	May dilute 1:1 with normal saline if given ET
Fentanyl	IV	3.0-6.0 µg/kg/hr drip or 1-4 µg/kg/dose slow IV push q2-4 hr	Consider wean when used >5 days
Furosemide	IV, IM, PO	1-2 mg/kg/dose q6-24h Oral dosage is 2x IV dose.	Monitor Na ⁺ , K ⁺ , Cl ⁻ , HCO ₃ ⁻ , blood gases
Hydrocortisone	IM, IV, PO	Stress Dose/Adrenal Crisis: 3-10 mg/kg/day Physiologic replacement: 1 mg/kg/day	5 mg/kg initially then 2.5 mg/kg/dose q6h x 48-72 hours post-op
Indomethacin	IV	IVH Prophylaxis: 0.1 mg/kg/day x 3 days PDA Treatment: (0.2 mg/kg/dose q12h, three doses)	
Iron(Ferrum hausman)	PO	4-6mg/kg/day 1 drop 2.5 mg	May cause guaiac+ stools
Kayexalate	Per rectum	1-2 gm/kg Administer q2-4h	Exchange resin that decreases K ⁺ but increases Na ⁺
Lorazepam (neuropam)	IV	0.05-0.10 mg/kg q 6-8h infused over 2-5 min	AnticonvulsantSedation

Methylprednisolone	IM, IV	Septic Shock: 10-30 mg/kg/dose q6h Airway inflammation: 1-2 mg/kg/dose q12h	
Midazolam	IV, (IM)	0.05-0.1 mg/kg q2-4hr prn 1-5 µg/kg/min	Shorter duration of action, less obtundation and respiratory depression than Valium
Morphine	IV, IM, SC	0.05-0.1 mg/kg/dose q3-6h ** <u>pain control</u> 1. Loading 100-150mcg/kg over 1hr 2. Maintenance 10-20mcg/kg/hr	May cause prolonged depression in premature infants
Mycostatin	PO	100,000 units q6h	To treat thrush 1ml : 100,000 units
Naloxone	IV, IM, ET	0.1 mg/kg/dose	May need to repeat
Nitroprusside	IV	Start infusion at 0.05-1.0 µg/kg/min and titrate according to blood pressure and oxygenation	Caution : hypotension and thiocyanate toxicity
Phenobarbital	IV, IM, PO	Loading dose: 15-20 mg/kg Maintenance: 5 mg/kg/day	Therapeutic levels between 20-40 µg/ml
Prostaglandin E1	IV	0.05-0.1 µg/kg/min in D5W or NS *[0.05 µg/kg/min = 150 x wt(kg) in 50cc D5W, keep 1cc/h]	Can be given via UAC
Ranitidine	PO, IV	1-2 mg/kg/dose q8-12h	
Sodium Bicarbonate	IV	1-2 mEq/kg/dose, or Base deficit x 0.3 x weight in kg ÷ 2	Dilute at least 1:1 with sterile water; do not administer more rapidly than 1 mEq/kg/min

Sodium Bicarbonate	PO (IV dose precedes)	Base deficit x 0.3 x weight in kg ÷ 2 1# 600mg: 7.3 mEq	Daily oral dosage should be equally divided into 3 or 4 doses and administered with feedings
Spironolactone	PO	1-3 mg/kg/dose q 24h	Monitor serum K+
Aminophylline	PO IV	Loading dose: 5 mg/kg Maintenance: 1-2 mg/kg/day q6-q24h	Maintain blood levels between 4.5 - 10 µg/ml
Vitamin K1	IM, IV	1 mg st or q1w	IV infuse very slowly

ANTIBIOTICS & ANTIFUNGALS	Route	Comment
Acyclovir	IV	20 mg/kg/dose q8h
Amikacin	IV	Table 1
Amphotericin B	IV	Test dose: 0.1 mg/kg Initial: 0.25 mg/kg/day Increment: 0.125mg/kg/day to maintenance dose 1mg/kg
Ampicillin	IV	25-50 mg/kg/dose For meningitis or severe GBS sepsis 100 mg/kg/dose, interval as Table 2
Cefotaxime (Claforan)	IV, IM	50 mg/kg/dose interval as Table 2
Ceftazidime (Fortum)	IV	30mg/kg/dose as Table 3
Ceftriaxone (Rocephin)	IV	50-100 mg/kg qd
Clindamycin	IV	5 to 7.5 mg/kg/dose interval as Table 4
Erythromycin ethylsuccinate (EES®)	PO	50 mg/kg/day q6h
Gentamicin	IVD	Table 5
Meropenem	IV	20-40mg/kg/dose, q8h
Metronidazole	IV	Loading: 15mg/kg Maintain 7.5 mg/kg,

		Interval as Table 6
Oxaillin	IV	25-50 mg/kg/dose interval as Table 2
Penicillin G	IV	Bacteremia, 25-50,000 IU/kgg/day/dose Meningitis, 75-100,000 U/kg/dose, interval as Table 2
Vancomycin	IV	10-15 mg/kg/dose Interval as Table 7

Table 1 Amikacin 適用於出生七日內

Gestational age (wks)	Dose (mg/kg/dose)	Interval (hours)
≤27	18	48
28 to 30	18	36
31 to 33	16	36
≥34	15	24

出生七日後

1200-2000 gm: 7.5-10 mg/kg/dose q8-12 h

>2000 gm: 10mg/kg/dose q8h

infant and children: 15-22.5 mg/kg/day q8h

Talbe 2 Ampicillin, Cefotaxime, Oxacillin, Penicillin G

Postconception age (wks)	Postnatal age (days)	Interval (hours)
≤29	0 to 28	12
	>28	8
30 to 36	0 to 14	12
	>14	8
37 to 44	0 to 7	12
	>7	8
≥45	All	6

Talbe 3 Cefazidime

Postconception age (wks)	Postnatal age (days)	Interval (hours)
≤ 29	0 to 28	12
	>28	8
30 to 36	0 to 14	12
	>14	8
37 to 44	0 to 7	12
	>7	8
≥ 45	All	8 (differet from table 2)

Talbe 4 Clindamycin

Postconception age (wks)	Postnatal age (days)	Interval (hours)
≤ 29	0 to 28	12
	>28	8
30 to 36	0 to 14	12
	>14	8
37 to 44	0 to 7	8
	>7	6 (different from Table 2)
≥ 45	All	6

Talbe 5 Gentamicin 適用於出生七日內

Gestional age (wks)	Dose (mg/kg/dose)	Interval (hours)
≤ 29	5	48
30 to 33	4.5	48
34 to 37	4	36
≥ 38	4	24

出生七日後

4—5 mg/kg/day q12-24 h

Talbe 6 Metronidazole

Postconception age (wks)	Postnatal age (days)	Interval (hours)
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≤ 29	0 to 28	48
	>28	24
30 to 36	0 to 14	24
	>14	12
37 to 44	0 to 7	24
	>7	12
≥ 45	All	8

Talbe 7 Vancomycin

Postconception age (wks)	Postnatal age (days)	Interval (hours)
≤ 29	0 to 14	18
	>14	12 (different from Talbe 2)
30 to 36	0 to 14	12
	>14	8
37 to 44	0 to 7	12
	>7	8
≥ 45	All	6