



CLINICAL PRACTICE GUIDELINE NEWBORN EMERGENCY TRANSPORT SERVICE (NETS WA)

Transport Medications

This document should be read in conjunction with the **Disclaimer**

TRANSPORT DRUGS			
DRUG	PRESENTATION	DOSE	ROUTE
ACICLOVIR	250mg/10mL vial	<30 weeks: 20mg/kg/dose 12 hrly >30 weeks: 20mg/kg/dose 8 hrly Further dilute 1mL from vial to 5mL with 0.9% NaCl = 5mg/mL	UV IV over 1 hour
ADENOSINE	6mg/2mLs vial	Initial dose: 100 micrograms/kg Increase in 50 micrograms/kg increments to max 300micrograms/kg/dose Dilute 1mL to 10mL with 0.9% NaCl = 300micrograms/mL	Rapid IV Increasing doses can be given every 2 minutes until return to sinus rhythm
ADRENALINE	1:10,000 amp (1mg/10mL)	Infusion: 0.1-1micrograms/kg/min Dilute 0.3mg/kg (3mL/kg of 1:10 000) in 50mL glucose/saline solution. 1mL/hr = 0.1micrograms/kg/min	IV UA ETT Acute resus (all routes): Term >34 wks:1mL Preterm <34 wks: 0.5mL Repeated doses maybe required
ALPROSTADIL (PROSTIN)	500 micrograms/mL amp BEWARE of apnoeas Consider intubation	25-50 nanograms/kg/min Divide 167 by the weight of the baby then add 500 micrograms (1 vial) of Prostin to this amount of mLs of diluent 1mL/hr = 0.05 micrograms/kg/min = 50 nanograms/kg/min	IV infusion Eg. If weight = 3.5 kg 167÷3.5 = 47.7 mLs of 0.9% NaCl plus one amp (500 micrograms) of Prostin
AMOXYCILLIN	IV: 500 mg vial Add 4.6 mL WFI = 100 mg/mL IV: 1000 mg vial Add 9.2 mL WFI = 100 mg/mL Do not give simultaneously with Gentamicin, as Y- site incompatible	For Sepsis: 50mg/kg/dose All gestations < 7 days = 12 hourly All gestations ≥ 7 days = 8 hourly FOR MENINGITIS: 100mg/kg/dose All gestations < 7 days = 12 hourly All gestations ≥ 7 days = 8 hourly	IV IM IM: 500 mg vial Add 1.6 mL WFI = 250mg/mL IM: 1000 mg vial Add 3.2 mL WFI = 250mg/mL

DRUG	PRESENTATION	DOSE	ROUTE
ATROPINE	600 micrograms/mL amp	IV: 20 micrograms/kg/dose Dilute to 6 mLs with WFI to give 600 micrograms/6mL (100micrograms/mL)	IV
BENZYL PENICILLIN	600 mg vial Add 5.6 mL WFI = 100 mg/mL Do not give simultaneously with Gentamicin, as Y- site incompatible	50 mg/kg <7 days = 12 hourly >7 days = 8 hourly	IV IM IM: Add 1.6mL WFI = 300 mg/mL
CAFFEINE	50mg/5mL Loading dose does not require dilution	Loading dose: 20mg/kg	Infuse over 30 mins
CALCIUM GLUCONATE DO NOT MIX WITH SODIUM BICARB	1 gram in 10mLs 10% solution 0.22mmol Ca per mL	For hypocalcaemia seizures: Withdraw 2mL/kg gluconate and dilute with equal amount NaCl. Infuse over 10 minutess Maintenance infusion: 5mL/kg/24 hrs Withdraw 5mL/kg and dilute to 25mLs with 5% glucose or 0.9% NaCl solutions. Infuse at 1mL/hr.	Use central line if available. Make sure UVC tip is not in the heart or liver.
CEFOTAXIME	IV 1g vial: Add 9.6mL WFI = 100 mg/mL 500mg vial: Add 4.8mLs WFI =100mg/mL	50 mg/kg <7 days: 12 hrly >7-21 days: 8 hrly >21 days: 6 hrly	IV IM IM: 1g vial Add 3.6 mL WFI = 250 mg/mL
CLONAZEPAM	1 mg/mL amp	Loading dose 100-250micrograms (NOT per kg) Dilute to 10mLs with WFI = 100micrograms/mL, Repeat in 1 hour if required. Infusion dose:10micrograms/kg/hour Dilute 0.5mL (500 micrograms) to 50mL with glucose/saline solution	IV 10micrograms/kg/hr = 1mL/hr
DIGOXIN	50 microgram/2 mLs amp Use undiluted SLOW IVI over 5 mins	Loading dose: <34/40 15-25 micrograms/kg >34/40 30-40 micrograms/kg If dilution required dilute to 10 mL with WFI = 50 micrograms/10 mL	Give ½ loading dose then ¼ in 8 hours then last ¼ in 8 hours.
DOBUTAMINE	250mg/20mLs amp (Sandoz) 250mg powder for reconstitution (Aspen) - add 18mL WFI to dissolve, withdraw & further dilute to 20mL (250mg/20mL)	1 - 20 micrograms/kg/min (initially 5 MCG) Infusion: Dilute 30 mg/kg to 50 mL in glucose/saline solution 1 mL/hr = 10 micrograms/kg/min	IV UV as infusion

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DRUG	PRESENTATION	DOSE	ROUTE
DOPAMINE	200 mg/5 mLs amp	5-20 micrograms/kg/min	IV UV
			Note:
		Infusion: Dilute 30mg/kg to 50mLs in	0.5-5 micrograms/kg/min
		5% glucose or 0.9% sodium chloride	↑ renal perfusion
		1mL/hr = 10 micrograms/kg/min	5-20 micrograms/kg/min
			↑ renal perfusion & cardiac output
FENTANYL	100 micrograms/2mL	4micrograms/kg/dose (pre-intubation)	Slow IV UV
	amp	1-5 micrograms/kg/hour (infusion)	Continuous infusion
		Dilute 2mL ampoule to 10 mL with	
		0.9% sodium chloride = 10	
		microgram/mL	
		Infusion: Dilute 50 microgram/kg of baby's weight to 50mL	
		glucose/saline solution =	
		1microgram/kg/mL	
FLUCLOXACILLIN	500 mg vial	25 mg/kg/dose	IV IM
	Add 4.6 mL WFI =	<34/40 <14 days = 12 hrly	Administer IV over 10
	100 mg/mL	<34/40 ≥14 days = 8 hrly	min
		≥34/40 <14 days = 8 hrly	IM: Add 2.1mL WFI = 200
		≥34/40 ≥14 days = 6 hrly	mg/mL
		For Staph aureus bacteraemia, meningitis, osteomyelitis = 50	9,=
		mg/kg/dose	
FRUSEMIDE	20 mg/2 mL amp	0.5-1.0 mg/kg	Preferably IV
		Dilute with WFI/0.9% NS	
GENTAMICIN	NTAMICIN 80 mg/2 mLs amp Corrected GA < 30 weeks:		
	Dilute to 8 mLs with	0-7 days = 5mg/kg 48 hrly	
	NaCl to give 10 mg/mL	> 7 days = 5mg/kg 24 hrly	
	IV dose SLOWLY		
	over 10 mins	Corrected GA 30-35 weeks:	
	Do not give	> 7 days = 6mg/kg 24 hrly	
	simultaneously with Penicillins, as Y-site incompatible	Corrected GA > 35 weeks:	
		0-14 days = 4.5mg/kg 24 hrly	
		> 14 days = 7mg/kg 24 hrly	
GLUCAGON	1 mg powder with 1	200 micrograms/kg STAT (Max dose	IV IM SC
	mL syringe of WFI as	1mg)	
	diluent	For infusions:	NOTE: 1 unit = 1 mg
		Dilute reconstituted vial to 50 mL	
		with 10% glucose to give 1000 micrograms/50 mL	
		0.5 mL/kg/hr =10 micrograms/kg/hr	
		Infusion dose:5-20 micrograms/kg/hr	
HEPARIN SODIUM	NETS only carries	0.5 units/mL added to all solutions to	IV UV UA
	1,000 units/mL amp	be infused centrally i.e.: arterial lines	
	,	umbilical lines & central venous lines	

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DRUG	PRESENTATION	DOSE	ROUTE
ISOPRENALINE	1000 micrograms/ 5mLs amp	0.05-0.5 micrograms/kg/min Infusion: Dilute 300 micrograms/kg to 50mLs of 0.9% NaCl or glucose solutions 1 mL/hr = 0.1 micrograms/kg/min	IV UV
LIGNOCAINE	50mg/5mLs amp 1%	Loading: 0.5-1mg/kg Maintenance: 10-50 micrograms/kg/min Infusion: Dilute 30 mg/kg in 50mL of 5% glucose solution 1mL/hr = 10micrograms/kg/min	IV over 5 mins
METRONIDAZOLE	500mg/100mL	Loading dose: 15 mg/kg < 7 days – 7.5 mg/kg 24 hrly ≥ 7 days – 7.5mg/kg 12 hrly > 44 weeks – 7.5 mg/kg 8 hrly	IV Infuse over 20 mins
MIDAZOLAM	15mg/3mL amp (5mg/mL) Dilute 1mL Midazolam with 4mL WFI =5mg/5mL (1mg/mL) 5mg/mL Amp (1mg/mL)	Intermittent dosing: 100–200 micrograms/kg 4-8 hourly Infusion: 1-2 micrograms/kg/min 3 mg/kg of baby's weight diluted to 50 mL glucose/saline solutions 1 mL/hr = 1 micrograms/kg/min	IV UV Slow push over 5 mins
MILRINONE	10mg/10mL Withdraw 1.5mg of Milrinone per kg of baby's weight (1.5mL/kg) and dilute to 50mL with an appropriate infusion fluid. Diluent: Sodium chloride 0.9%, Glucose 5%	< 30 weeks Loading dose: 135microgram/kg given over 3 hours (run at 1.5mL/hr for 3 hrs) Then maintenance dose: 0.2microgram/kg/min (run at 0.4mL/hr) ≥ 30 weeks Loading dose: 75microgram/kg given over 60 mins (run at 2.5mL/hr for 1 hour) then maintenance dose: 0.5-0.75microgram/kg/min (run at 1-1.5mL/hr) NB: LOADING DOSE CAN CAUSE HYPOTENSION, SO OFTEN OMITTED	IV as continuous infusion
MORPHINE	USUALLY 10 mg/mL amp Beware: other strengths may be available in different hospitals	100-200 micrograms/kg/dose Infusions: 10-40micrograms/kg/hour Dilute ampoule to 10mL with WFI = 1mg/1mL Infusion: add 0.5mg/kg to 50mL glucose/saline solution. 1mL = 10 micrograms/kg/ hour	IV UV IM: use undiluted

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DRUG	PRESENTATION	DOSE	ROUTE
NEOSTIGMINE	0.5mg/mL	50-80micrograms/kg/dose	IV,IM
(reversal of muscle	(500mcg/mL)	Diluent: sodium chloride, glucose,	To be used in
relaxants)	OR	Use undiluted or dilute contents of	conjunction with Atropine
	2.5mg/mL	2.5mg amp to 16.5mL =	(20micrograms/kg/dose).
	(2500mcg/mL)	150microgram/mL	IV push
	Give over 1 min		
PARACETAMOL	Oral: 250mg/mL	ORAL:	IV
	IV: vial 1mg/mL	28-32 weeks: loading 20mg/kg then	infuse over 15mins
		10-15mg/kg/dose max 30mg/kg/day	use undiluted
		>32 weeks: loading 20mg/kg then	
		10-15mg/kg/dose max 60mg/kg/day	
		.,,	
		IV:	
		>38weeks: 10mg/kg/dose 6 hrly	
DANIOUDONIUM	4 /0 1	35-37 weeks: 7.5mg/kg/dose 8 hrly	D/1D/
PANCURONIUM	4mg/2mLs amp	100-150 micrograms/kg/dose	IV UV
		Repeat after 3 minutes as required	
		Dilute to 10mLs with WFI=400micrograms/mL	
PIPERACILLIN-	4g vial	Corrected GA <30 weeks	IV
TAZOBACTAM	49 viai	≤28 days: 100mg/kg/dose 12 hrly	Infuse over 30 minutes
(Tazocin)		>28 days: 100mg/kg/dose 8 hrly	illiuse over 50 milliutes
		220 days. Toomg/kg/dose o mily	
		Corrected GA 30-36 weeks	
		≤14 days: 100mg/kg/dose 12 hrly	
		>14 days: 100mg/kg/dose 8 hrly	
		214 days. Tooling/kg/dosc o hilly	
Corrected		Corrected GA >36 weeks	
		≤7 days: 100mg/kg/dose 12 hrly	
		>7 days: 100mg/kg/dose 8 hrly	
		Add 37mL WFI to 4g vial=100mg/mL	
PHENOBARBITONE	200mg/mL amp	Loading dose: 20 mg/kg STAT	IV
	- 3	If no response a further 10-20 mg/kg	Infuse over 10-15 mins
		Dilute to 10mLs with WFI=20mg/mL	
PHENYTOIN	50mg/mL amp	Loading dose 15-20 mg/kg	IV ONLY
	, , , , , , , , , , , , , , , , , , ,	Dilute to 1:10 with 0.9% NaCl ONLY .	Infuse over 30-60 mins
		Flush line with 0.9% NaCl pre & post	with ECG monitoring
SODIUM	8.4% in 10mLs amp	Dilute 1mL 8.4% NaHCO3 with 1mL	IV UV
BICARBONATE	1mL 8.4% = 1mmol	WFI	
		(=4.2% solution)	
		Resus: 1-2mmol/kg over 30 min	
		Correction of pH (½ correction):	
		0.3 x wt (kg) x base deficit	
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SURFACTANT	8mLs vial	4 mL/kg/dose in at least 2 separate	ETT
(SURVANTA)	Use at room	aliquots	Store opened &
(SURVAINTA)	temperature	Up to 4 doses at 6 hrly intervals	unopened vials at 2-8 °C
	tomporataro	op to 1 deese at 5 mily intervals	Discard 12 hours after
			opening
SURFACTANT	120mg/1.5mLs	Rescue: 2.5mLs/kg = 200mg/kg	ETT
(CUROSURF)	240mg/3mLs Use at room	1.25mLs/kg(100mg/kg) after 12 hours to max dose 400mg/kg	Store opened & unopened vials at 2-8 °C
	temperature	Prophylaxis: 1.25-2.5mLs/kg within 15 mins of birth then 1.25mLs/kg 6-12 hourly. Subsequent doses 12 hourly. Max 300-400mg/kg	Discard 12 hours after opening
SUXAMETHONIUM	100mg/2mLs amp	1-2 mg/kg/dose	IV UV
CHLORIDE		Dilute 1mL with 4mLs 0.9% WFI = 10mg/mL	2mg/kg = 5 mins muscle relaxation
VANCOMYCIN	500mg vial	Corrected GA < 30 weeks:	IV UV
		0-7 days: 10mg/kg/dose 12 hrly	Infuse over 1-2 hrs
		>7 days: 10mg/kg/dose 8 hrly	
		Corrected GA 30-37 weeks:	
		0-7 days: 15mg/kg/dose 12 hrly	
		>7 days: 15mg/lkg/dose 8 hrly	
		Corrected GA 37-44 weeks:	
		All ages: 25mg/kg/dose 12 hrly	
		Add 10mL WFI to vial. Withdraw	
		1mL of this solution (50mg/mL) &	
		further dilute to 10mL with 0.9% saline (=50mg/10mL)	
VECURONIUM	10mg powder vial	Usual intermittent dose:	IV UV
	Add 10mL WFI to vial	100micrograms/kg/dose	Repeat dose at 1-2 hr
	=1mg/mL	Infusion: 1-4 micrograms/kg/min	
		Dilute 6mg /kg to 50mLs with 0.9%NaCl or 5% Glucose solutions	
		Infusion: 0.5mL/hr = 1 micrograms/kg/min	
VITAMIN K	2mg/0.2mL amp	BW<1500 grams 0.5mg = 0.05mL	UA UV IV IM
(PHYTOMENADIONE)		BW>1500 grams 1mg = 0.1mL	Over 5 mins
		May be diluted to 0.5mL with 0.9% NaCl	IM: use undiluted

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