Critical Care Guidelines FOR ICU USE ONLY



INTRAVENOUS INFUSION PRESCRIBING INFORMATION (**For further information and references see individual drug monographs and guidelines on the critical care intranet site**)

			pris and guidelines on the critical ca	-
Drug	Additional information	Dose/Amount	Diluent/volume (refers to the final volume of the infusion)	Rate/duration (ml/hr)
Actrapid	Actrapid is a brand of soluble insulin used for glycaemic control and variable rate insulin infusions. Prescribe as Actrapid.	50 units	50ml sodium chloride 0.9%	According to Insulin therapy in Critical Care protocol. Please note there are two protocols.
Adrenaline	Single strength	8mg 20mg 40mg	100ml glucose 5% or 0.9% NS 250ml glucose 5% or 0.9% NS 500ml glucose 5% or 0.9% NS	0-20mls/hr
All strengths via CVC*	80micrograms/ml	, seeing	g.s.c.c.	0-20mls/hr
CVC*- Central Venous Catheter	Double strength	40mg 80mg	250ml glucose 5% or 0.9% NS 500ml glucose 5% or 0.9% NS	0-20mls/hr
	160micrograms/ml			0-20mls/hr
	Quadruple strength	80mg 160mg	250ml glucose 5% or 0.9% NS 500ml glucose 5% or 0.9% NS	0-20mls/hr
	320micrograms/ml	, .	g	0-20mls/hr
Alfentanil	500micrograms/ml	15mg	30ml undiluted	1-4mls/hr
	Remember PRN bolus doses	25mg	50ml undiluted	1-4mls/hr
Aminophylline	Load centrally or peripherally in 100ml glucose 5% (or 0.9% NS), both over 20 minutes. Maximum loading dose is 500mg	500mg (maintenance Infusion)	500ml glucose 5% or 0.9% NS	500micrograms/kg/hr (prescribe in ml/hr) initially, then adjusted according to level ie. for 70kg patient 35mls/hr. Based on ideal body weight.
Amiodarone	Loading dose (large vein)	300mg	250ml glucose 5%	Over 1 hour
	Maintenance infusion via CVC*	900mg	500ml glucose 5%	21mls/hr over 23 or 24 hours (dependent upon whether loading dose was given).
Atracurium	10mg/ml	500mg	50ml undiluted	0.65-0.79mg/kg/hr. Based on ideal body weight for obese patients. Prescribe in ml/hr.
Clonidine	15micrograms/ml	750 micrograms	50ml sodium chloride 0.9% or glucose 5%	Up to 2 micrograms/kg/hr, prescribe in ml/hr i.e.9.5mls/hr for 70kg patient.
Dexmedetomodine	8microgram/ml	2000micograms	250ml glucose 5% or 0.9% NS	Initially 0.7micrograms/kg/hr, Range 0.2-1.4micrograms/kg/hr. See monograph.
Dobutamine	5mg/ml. CVC*	250mg	50ml undiluted	See monograph.
Epoprostenol	3000nanograms/ml	150,000nanogram s	50ml sodium chloride 0.9%	As per CVVHD protocol and monograph.
Esomeprazole	Loading dose of 80mg in 100ml sodium chloride 0.9% over 30mins then continuous infusion	80mg	100ml sodium chloride 0.9%	10mls/hour for 72 hours.
Fentanyl IVI		1500micrograms 2500microgram	30ml undiluted 50ml undiluted	See monograph.
Fentanyl PCA		1000micrograms	50ml sodium chloride 0.9%	Usually, 10microgram bolus with 5 minute lock out.
Furosemide	10mg/ml	250mg	25ml undiluted	Usually 5-20mg/hr (0.5-2mls/hr)
Glyceryl trinitrate	1mg/ml via CVC*	50mg	50ml undiluted	0.6-12mls/hr
Heparin	For treatment of DVT, PE.1000units/ml undiluted.	40,000units	40ml undiluted	depends on target APTTr/ unfractionated heparin AntiXa level.
Heparin	For anticoagulation in CVVHD 250units/ml.	10,000units	40ml sodium chloride 0.9%	According to CVVHD protocol.
Hydralazine	1mg/ml	60mg	60ml sodium chloride 0.9%	Initially 12-18ml/hr. Maintenance 3- 9mls/hr
Insulin- see Actrapio	d which is the brand of insulin used i	n the "iv insulin thera	apy in Critical Care" protocol.	
Isoprenaline	Using isoprenaline sulfate	2.25mg	500ml glucose 5%	As per protocol, contact cardiology.
Ketamine	For status epilepticus. This is not the preparation used for pain. IV loading dose: 3mg/kg based on ideal body weight.	2500mg	50ml undiluted	Maintenance infusion: 1-5mg/kg/hr (1.4-7ml/hr if 70kg) but discuss range to prescribe with consultant.
Labetalol	Centrally: 5mg/ml	200mg	40ml undiluted	0-24ml/hr can increase to 32ml/hr
	Peripherally: 1mg/ml	500mg	500ml glucose 5% or 0.9% NS	0-120ml/hr can increase to 160ml/hr
Mannitol 20%. Preso	ribe in as required therapy. Dose: 20	00ml:over 15mins, R	oute: IV, Indication: raised ICP	1
Metaraminol	500microgram/ml	50mg	100ml glucose 5%	0-10ml/hr
Midazolam	Single strength. 1mg/ml	60mg 50mg PFS 50mg	60ml glucose 5% or 0.9% NS 50ml glucose 5% or 0.9% NS undiluted	0-6ml/hr
	Double strength. 2mg/ml. Use in status epilepticus.	120mg 100mg	60ml glucose 5% or 0.9% NS 50ml glucose 5% or 0.9% NS	0-5ml/hr. See monograph for doses in status epilepticus.
Morphine IVI	2mg/ml	100mg	50ml undiluted	0-5ml/hr

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Naloxone	Info from NHS Lothian IV guide. 200micrograms/ml	10mg	50ml glucose 5%	Depends on response to previous IV boluses. See NHS Lothian IV guide.
Nicardipine	100microgram/ml Change IV infusion site every 12h if peripherally administered.	25mg	250ml glucose 5%	0-150ml/hr. See monograph for dose titration.
Nimodipine	200mcg/ml	10mg	50mls (undiluted)	5ml/hr for first two hours, increasing to 10mls/hr after 2 hours if BP stable.
Noradrenaline	Single Strength	8mg 20mg 40mg	100ml glucose 5% 250ml glucose 5% 500ml glucose 5%	0-20ml/hr
All strengths via CVC	80micrograms/ml	3	<u> </u>	0-20ml/hr
	Double strength	40mg 80mg	250ml glucose 5% 500ml glucose 5%	0-20ml/hr
	160micrograms/ml	3	<u> </u>	0-20ml/hr
	Quadruple strength	80mg	250ml glucose 5%	0-20ml/hr
	000 : / /	160mg	500ml glucose 5%	0.00 1//
	320micrograms/ml			0-20ml/hr
Phenylephrine	100micrograms/ml	10mg	100ml sodium chloride 0.9% or glucose 5%	15-60ml/hr
Phenytoin	Loading dose is 20mg/kg. If patient haemodynamically unstable the loading dose may	Up to 1000mg	100ml sodium chloride 0.9%	Up to 50mg/minute, but usually given over 60minutes to prevent hypotension.
	be divided into two doses. Maximum loading dose is 2000mg.	1001mg to 2500mg	250ml sodium chloride 0.9%	пуровензіон.
Propofol	**Remember PRN bolus doses**	1gram	100ml undiluted	Up to 4mg/kg/hr. Prescribe in ml/hr.i.e. 28mls/hr if 70kg
Rocuronium	10mg/ml (Use ideal body weight)	500mg	50ml undiluted	0.6mg/kg iv bolus, then 0.3-0.6mg/kg//hr
Calleutamad	20microgram/ml	10mg	500ml glucose 5% or 0.9% NS	9-60mls/hr
centrally and only used acidosis, usually start at Sodium chloride 5% P	.26% (500ml) or 1.4% (500ml) and in severe acidosis, fluid restriction of 50mls/hr of 1.26% or 1.4% solution rescribe in as required therapy. Dos	8.4% (200ml) available emergency such a n. see: 125ml, rate/durate	able. 1.26% or 1.4% may be given as cardiac arrest. Prescribe on 24h tion: over 15mins, Route: IV, Indic	
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Sodium bicarbonate 1 centrally and only used acidosis, usually start at Sodium chloride 5% P Sodium valproate Thiopental Sodium Vancomycin	26% (500ml) or 1.4% (500ml) and in severe acidosis, fluid restriction or 50mls/hr of 1.26% or 1.4% solution rescribe in as required therapy. Dos Any dose can be diluted in 50ml glucose 5% or sodium chloride 0.9%. * Note interacts with meropenem. Loading dose: 1st hour-10mg/kg/hr, 2nd hour-7mg/kg/hr, 3rd hour-5mg/kg/hr. Use ideal body weight. Loading dose Loading dose Coading dose Continuous infusion	8.4% (200ml) available or emergency such a consider the status epilepticus: Loading dose 40mg/kg up to a maximum of 3000mg. Intermittant: Start 1000-1200mg IV BD 1500mg 1500mg 2000mg 125mg 250mg 375mg 500mg 625mg 750mg 1000mg 1250mg 1000mg 1250mg 1000mg 1250mg 1000mg 1750mg 1000mg 1750mg 1000mg 1750mg 1000mg 1750mg 1000mg 1750mg	able. 1.26% or 1.4% may be given able. 1.26% or 1.4% may be given as cardiac arrest. Prescribe on 24h tion: over 15mins, Route: IV, Indication: over 15mins, Route: IV, Indica	ation: raised ICP Status epilepticus: administer loading dose over 10 minutes Intermittent: max 20mg/min (prescribe in mls/hr) i.e.max 1200mg over 60minutes Maintenance infusion: 4-7mg/kg/hr. See monograph for ml/hr dosing table. Use ideal body weight. over 1.5 hrs over 2 hrs over 3 hrs over 4 hours 4.1ml/hr 4.1ml/hr 8.3ml/hr 20.8ml/hr 20.8ml/hr 20.8ml/hr 20.8ml/hr 41.6ml/r 41.6ml/hr 41.6ml/hr
Sodium bicarbonate 1 centrally and only used acidosis, usually start at Sodium chloride 5% P Sodium valproate Thiopental Sodium Vancomycin	Loading dose: 1st hour-10mg/kg/hr, 2nd hour-5mg/kg/hr. Use ideal body weight. Loading dose	8.4% (200ml) available or emergency such a consider the status epilepticus: Loading dose 40mg/kg up to a maximum of 3000mg. Intermittant: Start 1000-1200mg IV BD 1500mg 1500mg 2000mg 125mg 250mg 375mg 500mg 625mg 750mg 875mg 1000mg 1250mg 1250mg 1500mg 1250mg 1500mg 17500mg 1750mg	able. 1.26% or 1.4% may be given able. 1.26% or 1.4% may be given as cardiac arrest. Prescribe on 24h ston: over 15mins, Route: IV, Indication: over 15mins, Route: IV, Indica	ation: raised ICP Status epilepticus: administer loading dose over 10 minutes Intermittent: max 20mg/min (prescribe in mls/hr) i.e.max 1200mg over 60minutes Maintenance infusion: 4-7mg/kg/hr. See monograph for ml/hr dosing table. Use ideal body weight. over 1.5 hrs over 2 hrs over 4 hours 4.1ml/hr 4.1ml/hr 8.3ml/hr 20.8ml/hr 20.8ml/hr 20.8ml/hr 20.8ml/hr 41.6ml/r 41.6ml/r

0.9% NS= sodium chloride 0.9%

Critical Care Guidelines FOR ICU USE ONLY

Electrolytes are prescribed on the 24hour chart.



Calcium	4.5mmol or 4.46mmol (depending on preparation available) calcium gluconate 10% in 100ml glucose 5% or 0.9% NS over at least 30minutes peripherally or centrally. In cases of severe hyperkalaemia, 6.8mmol (30ml of calcium gluconate 10%) may be given undiluted over 10minutes.
Magnesium	Magnesium sulphate 50%: 20mmol (10ml) in 250ml glucose 5% (or 0.9% NS) peripherally or in 100ml glucose 5% (or 0.9% NS) centrally. Both over 4 hours.
Phosphate	Phosphate polyfusor: 500ml over 12 hours, rate 41.6mls/hr.
Peripherally	Sodium glycerophosphate 21.6% (1mmol/ml Phosphate)-20mmol (20ml) in 250ml glucose 5% or 40mmol (40ml) in 500ml glucose
	5% over 5 hours.
Phosphate	Phosphate polyfusor:500ml over 12 hours. Rate 41.6mls/hr. Can be given over 6hrs if required, rate 83.3ml/hr.
Centrally	Sodium glycerophosphate 21.6% (1mmol/ml Phosphate)-20mmol (20ml) in 50ml glucose 5% over 5 hours, rate 10mls/hr or 40mmol
•	(40ml) in 100ml glucose 5% over 5 hours, rate 20ml/hr.
	Potassium acid phosphate 13.6%: (1mmol/ml Phosphate)-20mmol (20ml) in 50ml glucose 5% over 5 hours, rate 10ml/hr or 40mmol
	(40ml) in 100ml glucose 5% over 5 hours, rate 20mls/hr.
Potassium	20mmol in 500ml glucose 5% or 0.9% NS through a large vein.
Peripherally	40mmol in 500ml glucose 5% or 0.9% NS through a large vein.
	Maximum rate is 20mmol/hr with ECG monitoring.
	Maximum rate is 10mmol/hr with no ECG monitoring.
Potassium	20mmol or 40mmol in 100ml glucose 5% or 0.9% NS. If ECG monitoring, maximum rate is 20mmol/hr.
Centrally	No ECG monitoring, maximum rate is 10mmol/hr.
0.00/ 1	10

0.9% NS= sodium chloride 0.9%

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