Dilution & Administration of Drugs

in Adult Critical Care

Drug	Dose	Dilution Fluids	Final Concentration	Rate	Peripheral or Central?
Adrenaline	5 mg	Make up to 50 ml with 5% Dextrose or 0.9% sodium chloride	100 microgram/ml	0-20 ml/ hr	C
	10 mg	Make up to 50 ml with 5% Dextrose or 0.9% sodium chloride	200 microgram/ml	0-10ml/hr	С
Noradrenaline	4 mg	Make up to 50 ml with 5% Dextrose	80 micrograms/ml	0-20 ml/ hr	С
	8 mg	Make up to 50 ml with 5% Dextrose	160 micrograms/ml	0-20 ml/ hr	С
	16 mg	Make up to 50 ml with 5% Dextrose	320 micrograms/ml	0-10ml/hr	С
	32 mg	Make up to 50 ml with 5% Dextrose	640 micrograms/ml	0-10ml/hr	С
Metaraminol see factsheet	20 mg	Make up to 40 ml with 0.9% saline	500 micrograms/ml	0-30 ml/hour	C or P
Dobutamine see factsheet	250 mg	50 ml neat	5 mg/ ml	See factsheet	С
Isoprenaline see factsheet	2 mg	500 ml 5% Dextrose	0.4 micrograms / ml	See factsheet	С
Enoximone see factsheet	100 mg	Make up to 40 ml with 0.9% saline	2.5mg / ml	See factsheet	С
Propofol	2%	50 ml neat	2%	0-15 ml/hr	С
Ketamine Asthma (if Intubated)	500 mg	Make up to 50ml with 0.9% saline	10mg / ml	0.15 – 2.5mg/kg/hr	C or P
Pain	200 mg	Make up to 50ml with 0.9% saline	4mg / ml	0.15 – 0.3mg/kg/hr	C or P
Thiopental	1500 mg	Add 50 ml Water for injection	25 mg/ ml	0-20 ml/hr	C or P
Clonidine	750 microg	Make up to 50 ml with 0.9 % saline	15 micrograms/ml	0-10 ml/hr	C or P
Dexmedetomidine see factsheet	400 microg	Make up to 50 ml with 0.9% saline	8 micrograms/ ml	See factsheet	C or P
Midazolam	50 mg	Make up to 50 ml with 0.9% saline	1 mg/ml	0-10 ml /hr	C/P
Fentanyl	2500 microg	Make up to 50 ml neat		0-10 ml/ hr	C/P
Remifentanil	2 mg	Make up to 40 ml with 0.9 % saline	0.05mg/ ml	0-10 ml/hr	C/P
	4 mg	Make up to 40 ml with 0.9 % saline	0.1 mg/ ml	0-10 ml/hr	C/P
Glyceryl Trinitrate	50 mg	Make up to 50 ml with 0.9 % saline	1 mg/ ml	0 -12 ml/hr	C or P
Labetalol	200 mg	40 ml neat	5 mg / ml	0-20 ml / hr Start 4 ml/ hr	C or P
Furosemide	40 mg	May be given undiluted or diluted with sodium chloride 0.9% to a convenient volume to aid slow administration		20 mg over 5 min 40 mg over 10 min	

	500 mg	50 ml neat	10 ml/ ml	0-2 ml/ hr	C/P
	250 mg	Make up to 50 ml with 0.9% sodium chloride	5 mg/ ml	0-4 ml/ hr	C/P
Amiodarone	300 mg **LOADING DOSE**	Make up to 50 ml with 5 % dextrose	6 mg / ml	30 minutes	С
	900 mg	Make up to 50 ml with 5 % dextrose		2.1 ml/hr	С
	600 mg	Make up to 50 ml with 5 % dextrose		2.1 ml/hr	С
	300 mg	Make up to 50 ml with 5 % dextrose		2.1 ml/hr	С
Atracurium	500 mg	50 ml neat	10 mg / ml	0-10 ml / hr	C/P
Rocuronium	500 mg	Use neat	10 mg / ml	5-15 ml/ hr	C/P
Aminophylline Loading dose (patients not on maintenance therapy)	250 mg	Make up to 100 ml 0.9% Saline	2.5 mg/ml	5 ml/minute	C or P
Aminophylline Maintenance dose: 0.5mg/kg/hour Use IBW Fluid Restricted Patient	500 mg	Make up to 500 ml 0.9% Saline Make up to 50 ml 0.9% Saline	1 mg/ml 10 mg/ ml	Weight Based Levels 6 hours after starting continuous infusion and every 24 hours thereafter	C or P
Salbutamol	5 mg	Make up to 50 ml with dextrose 5%	100 micrograms/ ml	0-20 ml/hr according to response	С
Sodium Valproate Loading dose	1.6 g	Make up to 50 ml with 0.9% saline or Dextrose 5 %		2.1 ml/ hr for 24 hrs	C or P
Sodium Valproate Maintenance dose	>60 kg 600 mg TDS <60 kg BD	Make up to 50 ml with 0.9% saline or Dextrose 5 %		IV infusion over 60 minutes	C or P
Naloxone	4 mg (10 x 400 microgram ampoules)	Make up to 20 ml with 0.9% saline	200 micrograms/ml	Based on patient's response	C or P

Data from **Lauren Nichol**

Senior Pharmacist: Critical Care

