

## NEWCASTLE PICU STANDARD INFUSIONS

DRUG	TO MAKE STANDARD SOLUTION	CONCENTRATION	DOSE RANGE
Morphine♥	1mg/kg in 50ml 5% dextrose	1ml/hr = 20 µg/kg/hr	10-40 µg/kg/hr
Fentanyl	0.1 mg/kg in 50ml 5% dextrose OR Neat (50µg/ml) over 25kg	1ml/hr = 2 µg/kg/hr	1-5 µg/kg/hr
Midazolam♥	3mg/kg in 50ml 5% dextrose	1ml/hr = 1 µg/kg/min	1-4 µg/kg/min
Vecuronium♥	3mg/kg in 50ml 5% dextrose	1ml/hr = 1 µg/kg/min	1-4 µg/kg/min
Adrenaline	0.3mg/kg in 50ml 5% dextrose	1ml/hr = 0.1µg/kg/min	0.1-4 µg/kg/min
Noradrenaline	0.3mg/kg in 50ml 5% dextrose	1ml/hr = 0.1µg/kg/min	0.1-4 µg/kg/min
Phentolamine	30mg/kg in 50ml 5% dextrose	1ml/hr = 10 µg/kg/min	5-50 µg/kg/min
Dopamine♥	15mg/kg in 50ml 5% dextrose	1ml/hr = 5 µg/kg/min	2.5-20 µg/kg/min
Dobutamine♥	15mg/kg in 50ml 5% dextrose	1ml/hr = 5 µg/kg/min	2.5-20 µg/kg/min
Dopexamine♥	3mg/kg (mg) in 50ml 5% dextrose	1ml/hr = 1 µg/kg/min	0.5-2 µg/kg/min
Enoximone	100mg made to 40ml with water +/- load 1mg/kg over 30 mins	0.025ml/kg/hr = 1 µg/kg/min	5-10 µg/kg/min
GTN	6mg/kg in 50ml 5% dextrose	1ml/hr = 2 µg/kg/min	1-8 µg/kg/min
SNP	6mg/kg in 50ml 5% dextrose	1ml/hr = 2 µg/kg/min	1-8 µg/kg/min
Salbutamol	1mg/ml solution	0.06ml/kg/hr = 1µg/kg/min	1-5 µg/kg/min
Prostaglandin E2	30µg/kg in 50ml 5% dextrose	1ml/hr = 10 nanograms/kg/min	5-20 nanograms/kg/min

The basis of these infusions is the rule of 3's, ie. 3 x Wt (kg) of drug (mg) in 50ml will produce a solution of strength such that 1ml/hr = 1µg/kg/min.

♥ These should be doubled for infants under 10kg.