

# Protocol for the use of Intravenous PCA / NCA

# Fentanyl

## Special Precautions

- Fentanyl is an alternative opioid, which may be used for patients who have a contra-indication to morphine or as part of an opioid rotation plan.

## Intravenous

weight		drug and dose		concentration	
Up to 50 kg		<b>Fentanyl 25 microgram/kg</b> made up to 50 ml with 0.9% sodium chloride or glucose 5%		<b>1 ml = 0.5 microgram/kg</b> (Max 4 hrly dose: 20 mls)	
SUGGESTED INITIAL PROGRAM		Loading dose (ml)	Background inf (ml/hr)	Bolus dose (ml)	Lockout (mins)
<b>PCA</b>	standard	0.5 to 2	0 or 0.2	0.5 or 1	5 or 10
<b>NCA</b>	standard	0.5 to 2	0, 0.2, 0.5 or 1	0.5 or 1	20 or 30
<b>NCA</b>	in ICU areas	0.5 to 2	0, 0.2, 0.5 or 1	0.5 or 1	5
<b>NCA</b>	neonates & infants < 5 kg	0.5 to 2	0	0.5	20

weight		drug and dose		concentration	
Over 50 kg		<b>Fentanyl 1250 microgram</b> made up to 50 ml with 0.9% sodium chloride or glucose 5%		<b>1 ml = 25 microgram</b> (Max 4 hrly dose: 20 mls)	
SUGGESTED INITIAL PROGRAM		Loading dose (ml)	Background inf (ml/hr)	Bolus dose (ml)	Lockout (mins)
<b>PCA</b>	standard	0.5 to 2	0 or 0.2	1 or 2	5 or 10
<b>NCA</b>	standard	0.5 to 2	0, 0.2, 0.5 or 1	1	20 or 30
<b>NCA</b>	in ICU areas	0.5 to 2	0, 0.2, 0.5 or 1	1	5