

Protocol for the use of Fentanyl + Ketamine Intravenous PCA / NCA

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.
- Ketamine should only be prescribed after discussing the patient with an Anaesthetist or the Pain Control Service.

Intravenous

weight	drug and dose			concentration	
up to 50 kg	Fentanyl 25 microgram/kg			1 ml = 0.5 microgram/kg	
	AND	made up to 50 ml with 0.9% sodium chloride or 5% glucose		(Max 4 hrly dose: 20 mls)	
	Ketamine 1 or 2 mg/kg			1 ml = 20 or 40 microgram/kg	
SUGGESTED INITIAL PROGRAM		Loading dose (ml)	Background inf (ml/hr)	Bolus dose (ml)	Lockout (mins)
PCA	standard	0.5 to 2	0 or 0.2	0.5 or 1	5 or 10
NCA	standard	0.5 to 2	0, 0.2, 0.5 or 1	0.5 or 1	20 or 30
NCA	in ICU areas	0.5 to 2	0, 0.2, 0.5 or 1	0.5 or 1	5
NCA	neonates & infants < 5 kg	0.5 to 2	0	0.5	20

weight		drug and dose			concentration
over 50 kg		Fentanyl 1250 microgram			1 ml = 25 microgram
		AND	made up to 50 ml with 0.9% sodium chloride or 5% glucose		(Max 4 hrly dose: 20 mls)
		Ketamine 50 or 100 mg			1 ml = 1 or 2 mg
SUGGESTED INITIAL PROGRAM		Loading dose (ml)	Background inf (ml/hr)	Bolus dose (ml)	Lockout (mins)
PCA	standard	0.5 to 2	0 or 0.2	1 or 2	5 or 10
NCA	standard	0.5 to 2	0, 0.2, 0.5 or 1	1	20 or 30
NCA	in ICU areas	0.5 to 2	0, 0.2, 0.5 or 1	1	5