## PRESCRIPTION CHART

### Subcutaneous Nurse/Patient Controlled Analgesia

WARD

PHARMACY USE

#### **Pain Control Service** Great Ormond Street Hospital for Children

SC NCA / PCA

		NHS	Trust, G	Great Orn	nond St	reet, I	Londo	n, WO	C1N 3	JH			Ket	amir	ne	
SURNAME	SURNAME FIRST NAME			HOSPITAL NUMBER		BER	D.O.B.			AGE WE		VEIGH	'EIGHT			
ALLERGIES ?				SPECIAL INSTRUCTIONS												
		• For	pump p	orogramming protocols, refer to Pain Management Chart												
	unction with Trust Clinical Practice Guidelines															
FFNI	יאאיי	г.														
<b>FENTANYL</b> (≤ 50 kg 25 micrograms/kg) (> 50 kg 1250 micrograms)				DATE												
DOSE	microgram															
MAXIMUM VOLUME in any 4 hour period																
excluding Loading Dose or Extra Bolus				HR												
8 <b>ml</b>																
+ KET	IIMAT			MIN												
	mg)	(> 50 kg 5	0 or 100	IMIIIA												
DOSE		mg														
made up to 20ml with (	made up to 20ml with 0.9% sodium chloride															
	OSE RA	ml/hr 0.4 ml		• EXTRA												
BOLUS 0	) – 0.1ml/ ).2 – 0 i – 10 mii			BOLUS												
NCA         DOSE RANGE           BACKGROUND         0 – 0.4 ml/hr           BOLUS         0.2 – 0.4 ml           LOCKOUT         20 – 30 min		NGE	SC	• LOAD												
			DOSE													
LOCKOUT ICU 5	minutes															
ONLY																
LOADING DOSE OR EXTRA BOLUS  Fentanyl ≤ 50kg: 0.25 – 1 microgram/kg (0.2–0.8ml)				•SYRINGE												
ACCORDING TO PROTOCOL				CHANGE												
MAX DOSE >50 kg: 50 micrograms (0.8ml)																
START DATE SIGNATURE		BLEEP														
			0577	SIGN												
PHARMACY USE																
			AS F	REQU	IRE	D D	RU	GS	•	•	•					
NALOXONE For respiratory depression				DATE												
DOSE PRN other R	OUTE	Additional In:	structions	HR												
				MIN												
		_	DOSE													
			GIVEN													
START DATE SIGNATURE	BLEEP		• • • •	POLITE												
0577 breat		breath	s/min	ROUTE												
PHARMACYLISE			SIGN													

# Protocol for the use of Subcutaneous PCA / NCA

# Fentanyl + Ketamine

#### Use in conjunction with the Pain Management Chart and Clinical Practice Guidelines

## Special precautions

- Fentanyl is an alternative opioid, which may be used for patients who have a contra-indication to morphine.
- Ketamine should only be prescribed after discussing the patient with a consultant anaesthetist or the Pain Control Service.

#### **General instructions**

- No supplementary opioids unless ordered by the Anaesthetist or Pain Service
- Line for SC opioids should be exclusive or an anti-reflux valve must be used
- Record observations according to Clinical Practice Guidelines
- Assess pain HOURLY while on NCA/PCA, continue for 6 hours after cessation
- Multi-modal / synergistic analgesia ensure it is prescribed and use it
- Treatment of side-effects: Nausea & vomiting: Give antiemetics as prescribed ltching: Chlorphenamine as prescribed

Over sedation: See Sedation Scale

Respiratory depression: Resp rate: If less than shown on drug chart:

Give oxygen
 Stop infusion
 Give naloxone
 Call Pain Service
 microgram/kg IV

#### The Pain Service can be contacted on Bleep 0577 at any time (24 hours)

#### **Subcutaneous**

Weight	Drug	solution	Concentration				
up to 50 kg	Fentanyl 25 mio	crograms/kg made up to 20 ml with	1 ml = 1.25 microgram/kg (Max 4 hrly dose: 8 mls)				
	,	0.9% sodium chloride					

Ketamine 1 or 2 mg/kg

1 ml = 50 or 100 microgram/kg (Max 4 hrly dose: 8 mls)

SUGGESTED INITIAL		Loading dose	Background inf	Bolus dose	Lockout	
PROGRAMMING		(ml)	(ml/hr)	(ml)	(mins)	
PCA	standard	1 or 2	0 or 0.1	0.2 or 0.4	5 or 10	
NCA	standard	1 or 2	0, 0.1, 0.2 or 0.4	0.2 or 0.4	20 or 30	
NCA	in ICU areas	1 or 2	0, 0.1, 0.2 or 0.4	0.2 or 0.4	5	
NCA	neonates & infants < 5 kg	0.4, 1 or 2	0	0.2	20	

Weight Drug solution Concentration

over 50 kg Fentanyl 1250 microgram

AND made up to 20 ml with 0.9% sodium chloride

de up to 20 ml with (Max 4 hrly dose: 8 mls)

Ketamine 50 or 100 mg

1 ml = 2.5 or 5 mg (Max 4 hrly dose: 8 mls)

1 ml = 62.5 micrograms

SUGGESTED INITIAL		Loading dose	Background inf	Bolus dose	Lockout	
PROGRA	MMING	(ml)	(ml/hr)	(ml)	(mins)	
PCA	standard	1 or 2	0 or 0.1	0.4 or 0.8	5 or 10	
NCA	standard	1 or 2	0, 0.1, 0.2 or 0.4	0.4 or 0.8	20 or 30	
NCA	in ICU areas	1 or 2	0, 0.1, 0.2 or 0.4	0.4 or 0.8	5	