

# PRESCRIPTION CHART

## Intravenous Nurse/Patient Controlled Analgesia

WARD

Pain Control Service

Great Ormond Street Hospital for Children

NHS Foundation Trust, Great Ormond Street, London, WC1N 3JH

IV NCA / PCA

Morphine +  
Ketamine

SURNAME	FIRST NAME	HOSPITAL NUMBER	D.O.B.	AGE	WEIGHT
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ALLERGIES ?	SPECIAL INSTRUCTIONS
	<ul style="list-style-type: none"> <li>Ensure protocol is printed on the back of this prescription</li> <li>Use in conjunction with Trust Clinical Practice Guidelines</li> </ul>

<b>MORPHINE</b> (≤ 50 kg one mg/kg) (> 50 kg 50 mg) <b>DOSE mg</b>		DATE																
<b>MAXIMUM VOLUME</b> in any 4 hour period <b>excluding</b> Loading Dose or Extra Bolus 20 ml		HR																
<b>+ KETAMINE</b> (≤ 50 kg 1 or 2 mg/kg) (> 50 kg 50 or 100 mg) <b>DOSE mg</b> made up to 50 ml with 0.9% sodium chloride or 5% glucose Tick which solution to be used <input type="checkbox"/> <input type="checkbox"/>		MIN																
<b>PCA</b> BACKGROUND BOLUS LOCKOUT <b>NCA</b> BACKGROUND BOLUS LOCKOUT LOCKOUT ICU ONLY	<b>DOSE RANGE</b> 0 – 0.2 ml/hr 0.5 – 2 ml 5 – 10 min <b>DOSE RANGE</b> 0 – 1 ml/hr 0.5 – 1 ml 20 – 30 min 5 minutes	ROUTE	• EXTRA BOLUS DOSE															
		IV	• LOAD DOSE															
			• SYRINGE CHANGE															
<b>LOADING DOSE OR EXTRA BOLUS</b> <b>Morphine:</b> 10 – 100 micrograms/kg (0.5-5ml) <b>MAX DOSE:</b> 100 microgram/kg to max of 5mg																		
START DATE	SIGNATURE	BLEEP	SIGN															
		0577																
PHARMACY USE																		

### AS REQUIRED DRUGS

<b>NALOXONE</b> For respiratory depression				DATE														
DOSE PRN	other	ROUTE	Additional instructions	HR														
		IV		MIN														
micrograms	MAX FREQ	STAT	RESP RATE	DOSE GIVEN														
				ROUTE														
START DATE	SIGNATURE	BLEEP		SIGN														
		0577	< . . . . . breaths/min															
PHARMACY USE																		

Protocol overleaf

Use in conjunction with Pain Management Chart and Clinical Practice Guidelines

**Special  
Precautions**

☐ Ketamine should only be prescribed after discussing the patient with Anaesthetist or the Pain control Service

**General instructions**

- **No supplementary opioids unless requested by the Anaesthetist or Pain Control Service**
- Line for IV opioids should be exclusive or an anti-reflux valve must be used
- An anti-syphon line must be used
- Record observations according to Clinical Practice Guidelines (at least hourly)
- Assess for pain and potential opioid related side-effects hourly while on NCA/PCA, and for 6 hours after cessation
- **Multi-modal / synergistic analgesia** – ensure it is prescribed and administered
- Treatment of side-effects:
  - Nausea & vomiting:** Give antiemetics as prescribed
  - Itching:** Antihistamine as prescribed
  - Over sedation:** See Sedation Scale
  - Respiratory depression:** Assess child and if respiratory depression is suspected:
    1. Stop infusion
    2. Give Naloxone as prescribed
    3. Call Pain Control Service
    4. Document actions in the child's records

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

**Intravenous**

weight	drug and dose		solution	concentration	
Up to 50 kg	Morphine 1 mg/kg		1 ml = 20 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	2.5 or 5	0 or 0.2	0.5 or 1	5 or 10
NCA	standard	2.5 or 5	0, 0.2, 0.5 or 1	0.5 or 1	20 or 30
NCA	in ICU areas	2.5 or 5	0, 0.2, 0.5 or 1	0.5 or 1	5
NCA	neonates & infants < 5 kg	1 or 2.5	0	0.5	20

weight	drug and dose	solution	concentration		
Over 50 kg	Morphine 50 mg		1 ml = 1 mg		
	AND	made up to 50 ml 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	2.5 or 5	0 or 0.2	1 or 2	5 or 10
NCA	standard	2.5 or 5	0, 0.2, 0.5 or 1	1	20 or 30
NCA	in ICU areas	2.5 or 5	0, 0.2, 0.5 or 1	1	5