# PRESCRIPTION CHART

## Subcutaneous Nurse/Patient Controlled Analgesia

**Pain Control Service**
**Great Ormond Street Hospital for Children**
**NHS Trust, Great Ormond Street, London, WC1N 3JH**

### WARD

<table>
<thead>
<tr>
<th>SURNAME</th>
<th>FIRST NAME</th>
<th>HOSPITAL NUMBER</th>
<th>D.O.B.</th>
<th>AGE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ALLERGIES?

- For pump programming protocols, refer to Pain Management Chart
- Use in conjunction with Trust Clinical Practice Guidelines

### MORPHINE

- **DOSE**: (≤ 50 kg: one mg/kg) (> 50 kg: 50 mg)
- **DATE**: 
- **MAXIMUM VOLUME**: in any 4 hour period
- **HR**: 

### + KETAMINE

- **DOSE**: (≤ 50 kg: 1 or 2 mg/kg) (> 50 kg: 50 or 100 mg)
- **DATE**: 
- **MADE UP TO 20mlS WITH 0.9% SODIUM CHLORIDE**
- **MIN**: 

### PCA

- **BACKGROUND**: 0 - 0.1 ml/hr
- **BOLUS**: 0.2 - 0.4 ml
- **LOCKOUT**: 5 - 10 min

### NCA

- **BACKGROUND**: 0 - 0.4 ml/hr
- **BOLUS**: 0.2 - 0.4 ml
- **LOCKOUT**: 20 - 30 min
- **LOCKOUT ICU ONLY**: 5 min

### LOADING DOSE or EXTRA BOLUS

- **MORPHINE ≤ 50 kg**: 10 - 100 micrograms/kg (0.2-2ml)
- **ACCORDING TO PROTOCOL**
- **MAX DOSE > 50 kg**: 5 mg (2ml)

### PHARMACY USE

- **START DATE**: 
- **SIGNATURE**: 
- **BLEEP**: 0577

## AS REQUIRED DRUGS

**NALOXONE** For respiratory depression

<table>
<thead>
<tr>
<th>DOSE PRN</th>
<th>ROUTE$</th>
<th>Additional instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>micrograms</td>
<td>IV/IM</td>
<td>4 micrograms/kg (Max 200 mcg)</td>
</tr>
<tr>
<td>MAX FREQ STAT</td>
<td></td>
<td>&lt;</td>
</tr>
</tbody>
</table>

### PHARMACY USE

- **START DATE**: 
- **SIGNATURE**: 
- **BLEEP**: 0577

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I:\Pain Control Service\INPATIENTS\FORMS and CHARTS\Prescription charts\Approved Versions\Latest combined charts\9. SC morphine ketamine.docx
Protocol for the use of Subcutaneous PCA / NCA

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

**Special Precautions**
- 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
  - Itching: Chlorphenamine as prescribed

**Over sedation:** See Sedation Scale

**Respiratory depression:** Resp rate: If less than shown on drug chart:
  1. Give oxygen
  2. Stop infusion
  3. Give naloxone 4 microgram/kg IV
  4. Call Pain Service

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

### Subcutaneous

<table>
<thead>
<tr>
<th>Weight</th>
<th>Drug solution</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 50 kg</td>
<td>Morphone 1 mg/kg AND Ketamine 1 or 2 mg/kg</td>
<td>1 ml = 50 microgram/kg (Max 4 hrly dose: 8 mls)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUGGESTED INITIAL PROGRAMMING</th>
<th>Loading dose (ml)</th>
<th>Background inf (ml/hr)</th>
<th>Bolus dose (ml)</th>
<th>Lockout (mins)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCA standard</td>
<td>1 or 2</td>
<td>0 or 0.1</td>
<td>0.2 or 0.4</td>
<td>5 or 10</td>
</tr>
<tr>
<td>NCA standard</td>
<td>1 or 2</td>
<td>0, 0.1, 0.2 or 0.4</td>
<td>0.2 or 0.4</td>
<td>20 or 30</td>
</tr>
<tr>
<td>NCA in ICU areas</td>
<td>1 or 2</td>
<td>0, 0.1, 0.2 or 0.4</td>
<td>0.2 or 0.4</td>
<td>5</td>
</tr>
<tr>
<td>NCA neonates &amp; infants &lt; 5 kg</td>
<td>0.4, 1 or 2</td>
<td>0</td>
<td>0.2</td>
<td>20</td>
</tr>
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<tr>
<th>Weight</th>
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<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>over 50 kg</td>
<td>Morphone 50 mg AND Ketamine 50 or 100 mg</td>
<td>1 ml = 2.5 mg (Max 4 hrly dose: 8 mls)</td>
</tr>
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</thead>
<tbody>
<tr>
<td>PCA standard</td>
<td>1 or 2</td>
<td>0 or 0.1</td>
<td>0.4 or 0.8</td>
<td>5 or 10</td>
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