

Updating of IV Morphine and Oxycodone Patient and Nurse Controlled Analgesia

The guidelines for the prescription of PCA and NCA Morphine and Oxynorm have been updated.

The changes to **Nurse Controlled Analgesia** for children less than 5kg are that the maximum background dose is set as 10microgram/kg for an infant who is opioid naïve.

Nurse controlled bolus remains at 20minutes.

Continuous or background infusion

Background infusions may be omitted or set at 0.5ml/hr (5microgram/kg) or 1ml (10microgram/kg)

Higher doses may be allowed at the discretion of the pain service, consultant intensivist, consultant anaesthetist. For example infants (birth-12 weeks) undergoing multiple surgeries may require more opioid than their age suggests.

Nurse Controlled Analgesia for children weight > 5kg

Lockout time

For children >5kg and less than 50kg the lockout time is now 15 or 20 minutes instead of 10 or 15 minutes. (Lower lockout times are at the discretion of the pain service, consultant anaesthetist or consultant intensivist).

Continuous or background infusion

These may be set at **no background** or continuous infusion, **0.2ml/hr** (4microgram/kg), **0.5ml/hr** (10microgram/kg) or **1ml/hr** (20microgram/kg)

The criteria to increase a background infusions is the need for 3 or more PCA/NCA boli in 2 consecutive hours, and sedation level <2

Patient Controlled Analgesia

Continuous or background infusions may be omitted, or set at 0.2ml/hr (4microgram/kg), 0.5ml/hr (10microgram/kg) or 1ml/hr (20microgram/kg).

Lockout Time: 5 or 10 minutes

Weight ≥50kg PCA Bolus dose: 1 or 2ml

ALL children receiving opioid infusions must have their sedation level checked.

Sedation

Sedation score > 3 (University of Michigan Sedation Scale BJA, 2002; 88(2): 241-5

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- **0** = Awake and alert
- **1** = Minimally sedated ("drowsy") may appear tired/sleepy, responds to verbal conversation and/or sounds)
- **2** = Moderately Sedated (sleepy, moves spontaneously, easily aroused to stimulation or verbal command)
- **3**= Deep sedation (deeply asleep, arousable only with deep or significant physical stimulation).
 - **Stop infusion until level returns to 2.**
- **4**=Unrousable to stimulation. **Stop infusion, stimulate patient, administer oxygen, Call 2222**