

Paediatric Procedural Sedation Guideline

Indications (not exhaustive)

- Suturing
- Fracture or joint reduction/manipulation
- Foreign body removal
- Wound exploration/irrigation
- Burns Management
- Chest drain insertion
- Traction/ splint/ nerve block

Appropriate?

- GA required for definitive procedure – sedation may still be appropriate e.g. neurovascular compromise/ application of traction
- Alternatives to ketamine considered
- Senior Clinician trained in sedation available
- Suitable location for procedure available
- Consultant and Nurse in charge informed
- Department and staffing safe for procedure
- Procedure likely to be completed within 20 minutes

Preparation

- Information leaflet given
- Consent gained and documented
- Pre-sedation checklist completed
- Emergency plans considered
- Adequate analgesia given

DOSE GUIDE

KETAMINE IV
0.5-1mg/kg over 1 minute
(A further 0.5mg/kg IV can be given if required after 2 minutes)

Following Procedure

Post procedure checklist completed

Contraindications

- Age <12 months
- Active URTI/LRTI
- Active asthma
- ASA Grade >2
- Unstable /abnormal airway
- Significant cardiac disease
- Recent significant head injury/reduced GCS
- Psychological/behaviour/development problems
- Intracranial hypertension with CSF obstruction
- Intraocular pathology
- Uncontrolled epilepsy
- Hyperthyroidism or thyroid medication
- Porphyria
- Previous adverse reaction to ketamine or complication from GA

NOT Appropriate

Do NOT proceed with Ketamine Sedation
Discuss alternatives with on-call Anaesthetist

EMERGENCY PLANS

CRASH CALL 2222 + Oxygen

Apnoea – BVM ventilation (or Ayre's T-piece)

Laryngospasm – STOP procedure, jaw thrust, apply PEEP with Ayre's T-piece
Suxamethonium 0.5mg/kg IV or 2mg/kg IM
OR Rocuronium 1mg/kg IV

Anaphylaxis – stop trigger, lie flat

Adrenaline 1:1000 IM
Age >12 year **500mcg** = 0.5mls
Age 6-11 years **300mcg** = 0.3mls
Age <6 years **150mcg** = 0.15mls

Emergence phenomena – stop procedure
Consider single dose **Midazolam 0.05-0.1mg/kg IV**

ASA Classification

ASA 1 – normal healthy patient
ASA 2 – mild systemic disease
ASA 3 – Severe systemic disease
ASA 4 – severe systemic disease that is a constant threat to life