

CLASS: A

PROTOCOL(S) USED IN: Altered Mental Status, Endotracheal Intubation RSI, Patient Restraint Physical & Chemical, Pain Management.

PHARMACOLOGY AND ACTIONS:

- A. Sedative/dissociative analgesia
- B. Generalized CNS depression
- C. The exact mechanism of action is unknown; it acts on the cortex and limbic receptors producing dissociative analgesia and sedation.

INDICATIONS:

- A. Probable excited delirium.
- B. Sedation during RSI.
- C. May be used for analgesia and sedation for painful procedures or painful conditions.
- D. Severe mechanism trauma or catastrophic physical event.

CONTRAINDICATIONS:

- A. Known hypersensitivity
- B. Hypertension
- C. Pregnancy
- D. Infants under 3 months
- E. Stroke

SIDE EFFECTS AND NOTES:

- A. Respiratory depression
- B. Laryngospasm
- C. Emergence Delirium
- D. May include transient laryngospasm (0.1%), transient apnea or respiratory depression (0.8%), hypersalivation (rare), emesis (usually well into recovery 8.4%), recovery agitation (mild in 6.3%, clinically important in 1.4 %), muscular hypertonicity and random purposeless movements (common), clonus, hiccupping or short lived non- allergic rash of face and neck. Emergence reaction can occur in 5-30% of patients.
- E. May cause hypertension, increase cardiac output and myocardial oxygen consumption.

ADULT DOSING:

Probable excited delirium/Patient Chemical Restraint:

4 mg/kg IM or 1 mg/kg IV

RSI Induction dose:

1-2 mg/kg IV/IO push. Single max dose of 200 mg.

Sedation, continued sedation, and analgesia:

0.5-1 mg/kg IV/IO.

Pain Management:

0.1- 0.3 mg/kg for pain refractory to 200 mcg of Fentanyl or 20 mg of Morphine. Mix Ketamine in 50-100cc bag or 20cc of NS. Give slowly over 10 minutes.

Entrapped / Inaccessible & Agitated Patient

2mg/kg IM for dissociation / extreme agitation post catastrophic physical event. May repeat once. Pt should be continuously monitored with EtCO₂, SpO₂, respiratory rate and effort. Draw up second dose as a precaution for delirium and induce sedation.

PEDIATRIC DOSING:

Same as adult RSI Induction dose.