

Utilization of Ketamine for Hypotension Guideline

Indications:

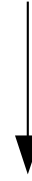
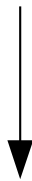
Sedation of hypotensive patient

Trauma patient

Severe agitation/combative

Onset: 1-2 minutes, Duration 5-10min IV, 10-25 min IM

Benefits: No significant respiratory depression



Adult Dosing

IM dose for sedation 2-4 mg / kg IM

IV dose: 1-2 mg/kg. (RSI dose)

Followed by 0.25 - 0.5
q5-10 min as needed

Peds Dosing

Procedure(RSI): 0.5-2mg/kg IV

Repeat: 0.25-1mg/kg q15min prn

Intranasal: 5mg/kg MAD



Adult Infusion

5-20mcg/kg/min infusion

for sedation

Titrate for effect

Peds Infusion

10-15mcg/kg/min infusion

for sedation

Titrate for effect

Ketamine

Class: Dissociative Anesthetic

Action: Acts on the muscarinic receptors in the cortex and limbic systems altering how the CNS perceives pain by decreasing neurotransmitters that cause an excitatory response.

Indications: Chronic or acute pain, pain associated with hypotension, sickle cell crisis, pain not relieved with opioids, RSI, dangerous/combative patients

Onset: 1-2 min IV/IO, 3-4 min IM

Duration: 5-10 min IV/IO, 10-25 min IM

Dose:

IVP Pain Management

0.1-0.5 mg/kg IV/IO q 15

0.5-1.0 mg/kg IM/IN

consider using small amounts of opioids or benzodiazepines in conjunction

Sedation/Dissociative

1-2mg/kg IV/IO

2-4mg/kg IM

Ketamine infusion

- Loading dose 0.2-0.3mg/kg IVP over 10 min, followed by 0.1-0.5 mg/kg/hr infusion.
- Combine ketamine with periodic doses of opioids or benzodiazepine or low dose infusion

Contraindications - Known allergy, hypertension, CVA, Increased intra-ocular pressure

Cautions: Increased ICP, CHF

Complications/Reactions: May increase BP and/or HR, N/V, nystagmus, increased ICP, increased intra-ocular pressure

Special info:

- May help maintain respiratory drive and BP while still providing pain relief and sedation
- Dilates bronchioles
- Re-emergence symptoms can be reduced with administration of benzos/opioids
- May work for patient with resistance to narcotic pain medications
- Copious secretions may be controlled with Atropine 0.5-1.0mg IV/IO

Reviewed and Approved 6/1/2017