

REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

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Southern Health	keta (sedation/analgesi	GENERIC NAME ketamine (high dose) (sedation/analgesia, rapid sequence intubation (RSI), procedural/conscious sedation)	
Effective Date: Dec 2011	CLASSIFICATION	OTHER NAMES	PAGE
Revised Date: Dec 2022	Anesthetic Agent	Ketalar	1 of 2
ADMINISTRATION	POLICY:		
IV Infusion – May	infusion – May be administered by a nurse under direct supervision of a prescriber		
IV Bolus – May	V Bolus – May be administered by a nurse under direct supervision of a prescriber		
IM Injection – May be administered by a nurse under direct supervision of a prescriber			
RECONSTITUTION	/DILUTION/ADMINISTRATIO	N:	
Available as: 10 mg/	mL – 20 mL multidose vial, 50 mg	g/mL – 10 mL multidose vial	
	minister undiluted over 1 to 3 minu minister undiluted	ites	
IV Infusion, Dump I i	hanne		

IV Infusion: Pump Library:

Ketamine HI				
Drug Library	Dose Rate	Short Name	Care Unit	
Yes	mg/kg/h	keta500	Critical Care	
Drug	Diluent	Final Volume (VTBI)	Final Concentration	
500 mg (10 mL of 50 mg/mL)	100 mL NS	110 mL	4.546 mg/mL	
Clinical Advisory: High Alert				
Soft Low Dose Limit: 0.05 mg	/kg/h Soft High Do	se Limit: 1 mg/kg/h		
Sedation & Acute pain:IV bolus:0.25 to 0.5 mg/kg (maximum bolus: 35 mg) followed by IV continuous: 0.05 to 0.25 mg/kg/h Titrate to pain goal and tolerability; usual dosing range 0.05 to 1 mg/kg/h; may need higher doses in opioid-tolerant or opioid-induced hyperalgesia; duration of infusion 48 to 72 hours.				
Rapid Sequence Intubation:	IV bolus: 1 to 2 mg/kg			
Procedural sedation:	 IV bolus: 1 to 2 mg/kg may repeat dose 0.5 to 1 mg/kg every 5 to 10 minutes IM: 4 to 5 mg/kg as a single dose; if sedation is inadequate after 5 to 10 minutes, repeat dose (2 to 5 mg/kg) 			
Induction of anesthesia:	IV bolus: 0.5 to 2 mg/k	g or 0.5 to 1 mg/kg in patient	ts with shock	
Maximum single dose: Maximum rate: Maximum concentration:	IV continuous: 1 mg/kg	east 1 minute /h		
Maximum concentration: IV bolus: 50 mg/mL IV continuous: 10 mg/mL				

Approved by the Regional Pharmacy & Therapeutics Committee

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Health	

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ALERT DOUBLE

GENERIC NAME		
ketamine (high dose)		
(sedation/analgesia, rapid sequence intubation (RSI),		
procedural/conscious sedation)		

	procedul ul conscious sedución)		
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STABILITY/COMPATIBILITY:

Stability of multidose vial:	28 days after first use
Stability of Final Admixture:	24 hours at room temperature

Compatibility: Compatible with normal saline and D5W

PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Resuscitative equipment should be readily available
- Increased heart rate and blood pressure
- Moderate respiratory depression (severe in overdose or rapid rate of administration)
- May increase intracranial and intraocular pressure. Caution advised in glaucoma or head injury.
- Vivid dreams, dissociative or extra corporeal (out of body) experiences, floating sensations, hallucinations, delirium and confusion. Caution advised when used in patients with psychiatric illness.
- Laryngospasm, hypersalivation and increased tracheobronchial secretions
- Muscle hyperactivity, rigidity and myoclonus

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Monitor blood pressure, respiratory rate, SpO₂ and sedation
- Cardiac monitoring and resuscitative equipment should be readily available
- CNS depressants (e.g. Benzodiazepines) may prolong recovery time and increase risk of apnea
- Purposeless movements of extremities may occur. These are not indicative of a need for an additional or higher dose
- Onset of anesthesia: 1 to 2 minutes. Duration of anesthesia: 5 to 15 minutes. Note that analgesia outlasts anesthesia.
- Elderly patients: Because of risk of respiratory depression may be greater, dose increments should be smaller and rate of injection slower.