

ISSUE DATE: CATEGORY:	CPC Quality of Care CommitteeMarch 2019REVISION DATE:Mar 2019ACP MedicationsPAGE:1 of 2Ketamine			
Other Names:	• Ketalar			
Classifications:	General Anesthetic			
Pharmacodynamics	 Produces a cataleptic-like state in which the patient is dissociated from the surrounding environment by direct action on the cortex and limbic system. Ketamine is a noncompetitive NMDA receptor antagonist that blocks glutamate. Low (subanesthetic) doses produce analgesia, and modulate central sensitization, hyperalgesia and opioid tolerance. Reduces polysynaptic spinal reflexes. 			
Onset:	IM:Anesthetic effect 3-4 minutes			
Peak:	IM:Anesthetic effect 5-30 minutes			
Duration:	IM:Anesthetic effect 12-25 minutes			
ALS PCS Indications	• Combative or violent or agitated behavior that requires sedation for patient safety			
Other Indications:	 General anesthesia Procedural sedation/analgesia Status epilepticus (refractory) 			
Contraindications:	Allergy or sensitivityKnown history of asthmaKnown pregnancy			
Precautions:	 Use with caution in patients with coronary artery disease, catecholamine depletion, hypertension, and tachycardia. Use with caution in patients with Cerebrospinal fluid (CSF) pres elevation Use with caution in the chronic alcoholic or acutely alcohol-intoxicated. 			

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Adverse Reactions:		Postanesthetic emergence reaction Laryngospasm Respiratory depression Thyroid disorders Hydronephrosis, Bladder dysfunct CNS depression Increased intracranial pressure Drug dependence Diplopia, increased intraocular pre Bradycardia, cardiac arrhythmia, I pressure, increased pulse	ion, cystitis essure, nystag		
Drug Interactions:		CNS depressants such as alcohol, opioids, benzodiazepines, some anti-depressants and cannabis can potentiate the effects of ketamine			
Special Considerations: •		Do not co-administer midazolam a received from BHP. If ketamine emergence reaction d required if further sedation orders	evelops, a BH		
Preparations	5: • • •				
References: •		Ontario Provincial ALS Patient Car	e Standards, V	/ersion 4.5	

- Ontario Provincial ALS Patient Care Standards, Version 4.5
- Ottawa Parenteral Drug Therapy Sheet
- Lexicomp, Ketamine: Drug information. Retrieved Online from Up-to-Date on Mar 3rd, 2019

NOTE: The information contained herein does not supersede or negate the MoHLTC Provincial Medical Directives and should only serve as general information about the medication itself. For medication dosages, please refer to the current version of the **Ontario Provincial ALS Patient Care Standards.**