

## Ketamine for Adult Violent/Agitated Patient

### What is Ketamine?

- Classified as a general anesthetic agent
- A “dissociative anesthetic”( Form of general anesthesia, not necessarily complete unconsciousness characterized by catalepsy, catatonia and amnesia)
- Short-acting sedative/hypnotic ( 12 – 25min) onset 3-4 min

### How does it come?

- In a 10ml vial.
- 500mg per 10ml ( 50 mg per 1ml)

### How does it work?

- Ketamine is a Class III Phencyclidine (PCP) derivative that is rapid acting in producing a “dissociative” anesthesia in which the patient’s consciousness is detached from their nervous system. Due to its “dissociative” properties, Ketamine is a potent analgesic.
- Minimal cardiac depression occasionally reported with rapid-high doses. May transiently (within 30-60 seconds) increase heart rate and blood pressure by central sympathetic stimulation. Return to normal values begins almost immediately, and is complete within 15 minutes.
- Ketamine is a bronchodilator and has minimal to no respiratory depression, with respiratory stimulation frequently seen.

### What dose do I give?

4mg/kg IMI x 1 dose.

**Patient must be placed on nasal cannula and ETCO2 monitored**

### Contraindications.

- Angina
- CHF
- Symptomatic Hyperthyroidism
- Pregnancy-Relative (Category B)

### Adverse Reactions:

An emergence reaction (in approximately 12% of patients) may occur near end of medication half-life, when patient is awakening, that may require Versed to calm patient. Patch for dose.

### Special Notes:

- Pregnancy: Category B
- Lactation: Undetermined, if any, effects
- Elderly: Use with caution, start at low end of dosing range
- Alcohol: Use with caution in the acutely alcohol-intoxicated patient