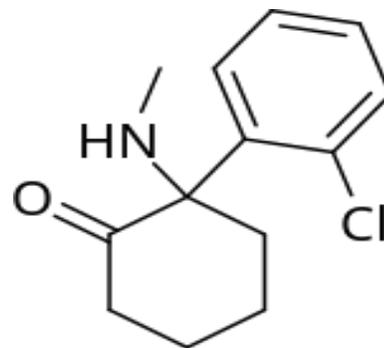


KETAMINE TOOLKIT



Easy toolkit with standard doses, drug facts and pertinent information

WHAT IS KETAMINE?

- Is a **phencyclidine** derivative
- **N-methyl-D-aspartate receptor agonist** throughout the CNS
- Metabolized in the liver (**nor-ketamine is active metabolite**)
- **Renally** excreted
- Does not cause severe hypotension or severe respiratory depression
- **Increases CO, HR, BP and ICP**
- Great drug of choice for induction in trauma cases, without suspicion of head injury/trauma, and patients with hypovolemia and **sepsis (1-2mg/kg IVP)**
- **Bronchodilation** properties
- Patient can have **psychomimetic events**
- **Side Effects:** prolonged emergence, delirium, confusion, hallucinations, irrational behavior, increased salivation

HOW CAN IT BE ADMINISTERED?

- **IV, IM,** Oral, transnasal, and rectal

DOSES

- **Induction:**
 - 1-2mg/kg/IVP for adults and pediatrics
 - 4-6mg/kg IM
- **Maintenance** (adjunct to TIVA):
 - 0.23-0.35mg/kg loading dose, followed by an infusion up to 1mg/kg/hr
- **Obstetrics:**
 - 10mg IVP per dose PRN
- **Sedation:**
 - 2.5-15mcg/kg/min IV
- **Intranasal (acute pain):**
 - 0.2-1mg/kg, given in divided doses in each nostril
- **Rectal (pediatrics >1)**
 - 1.5-3mg/kg
- **Reducing post-operative opioid use:**
 - 0.2mg/kg bolus followed by an infusion of 0.1mg/kg/hr at start of surgery
- **Immune Response:**
 - 0.15mg/kg IV bolus prior to anesthetic induction was shown to decrease alterations in immune function in the early post-operative period
 - Shown to significantly **reduce IL-6 and TNF-alpha markers**
- **Neurological benefits:**
 - 0.5mg/kg/IV bolus given during anesthesia was found to **reduce incidences of post-op cognitive dysfunction** in patients undergoing cardiac surgery
 - 0.5mg/kg infusion over 40 minutes was found to help **decrease explicit suicidal cognition and nonsuicidal-related depressive symptoms.**

HOW CAN YOU REDUCE PSYCHOMIMETIC EVENTS?

- Give **adequate dose of benzodiazepine (versed) or hypnotic agent (Propofol)** to reduce psychomimetic events
- Recommended to give **glycopyrrolate** to reduce salivation