

Etomidate (Amidate)

McHenry Western Lake County
EMS



Objectives

- During this session we will discuss:
- Class
- Actions
- Indications
- Contraindications
- Dosing/Routes
- How supplied
- Precautions
- Side effects



Class:

- General anesthetic
- Chemical Class: Nonbarbiturate hypnotic



Actions:

- Acts at the level of reticular activating system to produce anesthesia.
- Sedative-hypnotic without analgesic activity



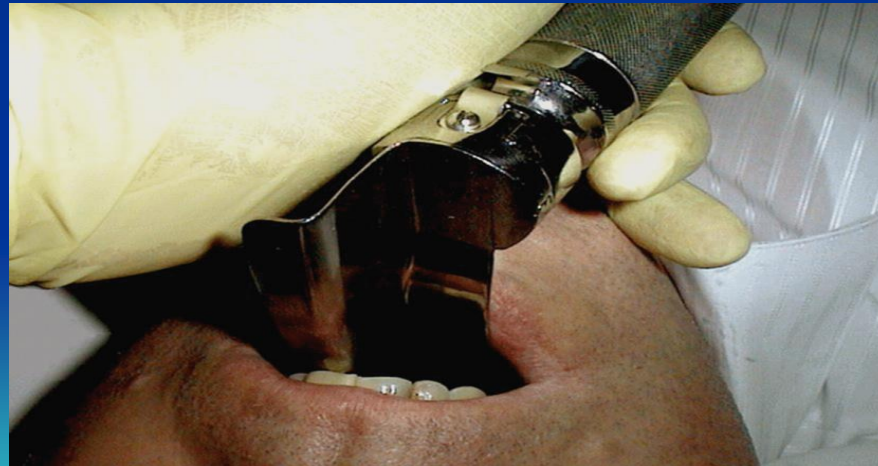
Reticular activating system

- The reticular activating system is the name given to the part of the brain believed to be the center of arousal and motivation in humans.
- The activity of this system is crucial for maintaining the state of consciousness. It is situated at the core of the brain stem between the medulla oblongata and midbrain.
- From Wikipedia.org



Indications:

- Drug assisted intubations to help supplement Versed (Midazolam)



Dosing/Routes:

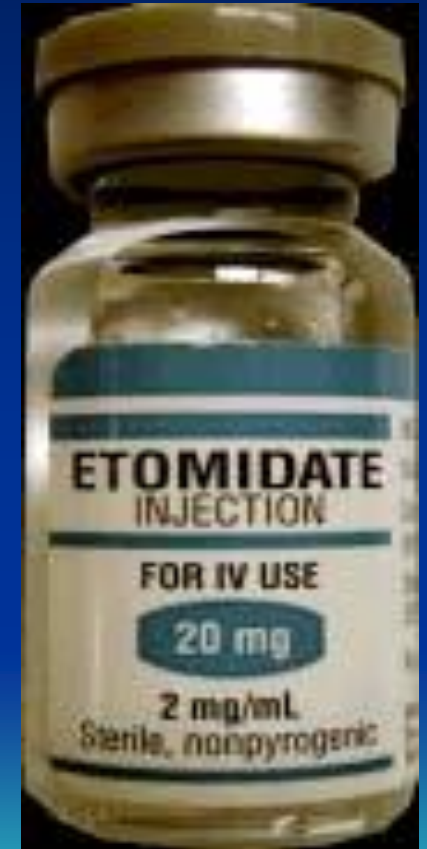
- 0.5 mg/kg IVP/IO
- Onset: Within 1 minute
- Duration: Usually brief (3-12 minutes)
- **Bring unused portion to the ER.**
- Dosing guide:

• 90 lbs	20-22mg
• 100 lbs	23-25 mg
• 125 lbs	28-31 mg
• 150 lbs	34-37 mg
• 175 lbs	40 mg
- So anyone over 175 lbs gets all 40 mg of Etomidate!



How supplied:

- 40 mg preload
- 2mg/2ml
- 20ml syringe



Contraindications:

- Septic Shock d/t adrenal suppression
- Allergy to Etomidate
- Children less than 10 yrs
- Caution in pregnancy (consider the benefit/risk)



Side effects/adverse reactions:

- Transient skeletal muscle movement (myoclonus)
 - Transient venous pain on injection (less freq. in Ig proximal veins)
 - Resp: Hyper/hypo ventilation; apnea of short duration
 - Laryngospasm
 - CV: Hyper/hypotension,
 - Increased or decreased pulse
 - GI: Nausea and vomiting
- Ref: MWLCEMS Protocol and 2000 Mosby's Nursing Drug Reference Book



Case Study

You are treating a 24 y/o female that weighs 125 lbs. She has a severe head injury and is breathing very shallow with snoring respirations. Your dose of Etomidate would be:



Answer

- 28-31 mg IVP

Question?

- Another medication that should be given to this patient would be?



Answer

- Versed: 5 mg initial bolus IVP/IN