

Midazolam

GENERIC NAME

Midazolam

TRADE NAME

Versed

DESCRIPTION

Midazolam is a short-acting, water-soluble benzodiazepine that depresses the central nervous system (CNS), producing sedation and decreased responsiveness to commands.

HOW SUPPLIED

1 mg/ml (5 ml vial)

INDICATIONS

- Active seizures
- Sedation prior to cardioversion
- Sedation for administering CPAP
- Violent patients with extreme agitation
- Post resuscitation – sedation for agitation after intubation

CONTRAINDICATIONS

- Allergy or hypersensitivity to Midazolam

PRECAUTIONS

- Respiratory depression
- Hypotension

MECHANISM OF ACTION

Midazolam produces CNS depression, causing drowsiness and decreased responsiveness to commands.

SIDE EFFECTS

- Respiratory depression
- Hypotension

HOW ADMINISTERED

- **IV/IO:** Administer no faster than 5 mg over 2 minutes. For seizures, give in 2 mg increments, titrating to effect. Allow at least 10 minutes between doses.
- **IM:** Allow at least 10 minutes between doses. Total dosage may require two injections if volume exceeds the maximum single IM volume.
- **IN:** Deliver half of each dose per nostril. Allow at least 10 minutes between doses. Use the intranasal route only if IV/IO access is unavailable.

AUTHORIZATION

EMT: Not authorized

AEMT: Not authorized

Paramedic: Standing order and Medical Control

DOSAGE

Indication	Route	Adult Dosage	Pediatric Dosage
Seizure / Agitation / Violent Patient	IV/IO/IM	2-5 mg, may repeat every 5 min, max 10 mg total	≥ 13 years: 2-5 mg, may repeat every 5 min, max 10 mg total < 13 years: 0.1 mg/kg, max 10 mg total
Seizure / Agitation / Violent Patient	IN	5 mg (½ dose per nostril), may repeat every 5 min, max 10 mg total	≥ 13 years: 5 mg (½ dose per nostril), may repeat every 5 min, max 10 mg total < 13 years: 0.2 mg/kg, max 10 mg total
Bradycardia (prior to pacing) / Tachycardia (prior to cardioversion)	IV/IO	2-5 mg, do not repeat	0.1 mg/kg, max 5 mg
CPAP Sedation (Respiratory Distress)	IV/IO/IM	0.5 mg, may repeat every 5 min, max 2 mg total	No pediatric protocol
Post Resuscitation (Sedation for agitation after intubation)	IV/IO/IM /IN	2-5 mg, may repeat up to a total of 10 mg	1 mg IV/IO, may repeat up to a total of 5 mg

Notes:

- For all IV/IO administrations, administer no faster than 5 mg over 2 minutes.
 - For IM administrations, total volume may require two injections if exceeding the maximum single IM volume.
 - For IN administrations, deliver half of each dose per nostril. Use this route only if IV/IO access is not established.
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