

**Classification**

Sedative, benzodiazepine

**Prehospital Indications**

Agitated Delirium: patients requiring restraints for patient and provider safety  
Behavioral / Psychiatric Crisis: patients requiring restraints for patient and provider safety  
Cardiac Dysrhythmia: sedation prior to and/or during synchronized cardioversion or transcutaneous pacing  
Sedation and amnestic agent for patients receiving manual/mechanical ventilation if already intubated  
Seizure - Active

**Adult Dose**

Agitated Delirium / Behavioral / Psychiatric Crisis  
**5mg (1mL) IM/IN/IV**, repeat x1 in 5 min prn, maximum total dose prior to Base contact 10mg for Agitated Delirium (Psychiatric Crisis requires Base order prior to any medication administered)  
Cardiac Dysrhythmia - sedation prior to synchronized cardioversion / transcutaneous pacing  
**5mg (1mL) slow IV/IO push/IM/IN**, may repeat x1 in 5 min prn, maximum total dose prior to Base contact 10mg  
Seizure - Active  
**5mg (1mL) IV/IO**, repeat x1 in 2 min prn, maximum total dose prior to Base contact 10 mg  
**10mg (2mL) IM/IN**, contact Base for additional dosing  
With Base Contact may repeat as above up to a maximum total dose of 20mg

**Pediatric Dose**

Agitated Delirium / Behavioral / Psychiatric Crisis  
**0.1mg/kg (5mg/mL) IV** or **0.2mg/kg (5mg/mL) IM/IN**, dose per [MCG 1309](#), repeat x1 in 5 min, maximum single dose 5mg, maximum total dose prior to Base contact 10mg for Agitated Delirium (Psychiatric Crisis requires a Base order prior to any medication administered)  
Cardiac Dysrhythmia - sedation prior to synchronized cardioversion / transcutaneous pacing  
**0.1mg/kg (5mg/mL) IV/IO** or **0.2mg/kg (5mg/mL) IM/IN**, dose per [MCG 1309](#), repeat dosing every 5 min prn per Base order, maximum single dose 5mg  
Seizure - Active  
**0.1mg/kg (5mg/mL) IV/IO** or **0.2mg/kg (5mg/mL) IM/IN**, dose per [MCG 1309](#), repeat x1 in 2 min prn, maximum single dose 5 mg maximum total dose prior to Base contact 10mg

With Base Contact may repeat as above up to a maximum total dose of 15mg

**Mechanism of Action**

Binds to receptors at several sites within the CNS, potentiates GABA receptor system which produces anxiolytic, anticonvulsant, muscle relaxant, and amnesic effects.

**Pharmacokinetics**

Onset 3-5 min IV, 15-20 min IM, 6-14 min IN  
Duration 1-6 hours IV/IM

**Contraindications**

Respiratory depression  
Shock / Poor perfusion (see prehospital considerations)

**Interactions**

Risk of respiratory or central nervous system depression, increases when used with diphenhydramine, fentanyl, morphine, or other opiate or sedative medications

**Adverse Effects**

Hypotension

Respiratory depression / arrest

**Prehospital Considerations**

- Closely monitor respiratory and cardiac function after administration
- Caution in patients with suspected alcohol intoxication as midazolam can increase the risk for respiratory depression
- For patients with agitated delirium and violent behavior, IM/IN administration is recommended over IV for the initial dose for the safety of EMS personnel.
- If available, waveform EtCO<sub>2</sub> monitoring should be instituted after administration.
- For patients who are poorly perfusing and require sedation for safety (e.g., prevent inadvertent extubation) or require a painful procedure (e.g., transcutaneous pacing), one should use judgment in consultation with Base.