



## Monroe Livingston Region Program Agency

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To: All ALS Providers

From: Jeremy T. Cushman, MD, MS, EMT-P *JT Cushman*  
Regional Medical Director

Date: June 18, 2010

**Re: Advisory 10-10: Midazolam Dosing**

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Since the change from diazepam (Valium) to midazolam (Versed) in the protocols earlier this year, there have been a number of cases where an excessive initial dose of midazolam has been given for patients with active seizures.

All ALS providers are expected to review Protocol 2.31 (attached) paying specific attention to the dose of midazolam (Versed) being **2.5 mg** standing order for adults with active seizures, and **0.05 mg/kg (max 2.5 mg)** for pediatrics with active seizures, with additional doses per Medical Control.

With any questions, please do not hesitate to contact the Regional Program Agency.

## 2.31 SEIZURES

1. Routine medical care.
2. Assure airway patency and administer oxygen per protocol.
3. Assess signs, symptoms, and medical history.
4. Consider possible causes:
  - Existing seizure disorder
  - Toxic ingestion - see Poisoning / Overdose Protocol (2.25)
  - Head Injury - see Head Trauma Protocol (2.16)
  - Hypoglycemia - see Diabetic Emergencies Protocol (2.14)
  - Eclampsia (if maternity patient beyond 20 weeks or up to 6 weeks after delivery)
5. If seizing, begin timely transport.
6. Assess BG (BLS, if available; mandatory for ALS) - If hypoglycemic, see Diabetic Emergencies Protocol (2.14).

### EMT STOP

7. Establish IV Access; see Vascular Access Protocol (2.34)

### EMT-I STOP

8. If active tonic-clonic seizure ongoing:

Midazolam (Versed) 2.5 mg IV/IO/IM once (Must contact Medical Control after use)



Midazolam 0.05 mg/kg IV/IO/IM (Max 2.5 mg, must contact Medical Control after use)



All levels must call Medical Control prior to administration if Diastat was given prior to arrival.

### EMT-CC STOP

9. If maternity patient over 20 weeks gestation OR up to 6 weeks post partum AND no history of seizures:

Magnesium Sulfate 5 gm in 100mL NS over 5 minutes IV/IO

May follow with Midazolam (as above) if seizure refractory

## ABSOLUTE ONLINE

10. If additional seizure control needed, contact Medical Control for repeat dose.
11. For eclamptic patient 2 gm additional Magnesium Sulfate (for a total of 7 gm) may be requested from Medical Control.