El Dorado County Emergency Medical



Services Agency Quick Reference

Revised Date: July 1, 2022

Medication Profile

Magnesium Sulfate (MgSO4)

<u>Class</u>:

Antidysrhythmic, Electrolyte

Action:

Controls ventricle response rate. Increases the movement of potassium into cells. Blocks the release of acetylcholine

Onset: Immediate

Peak: Variable

Duration: 3-4 hours

Adult Administration:

- Torsades De Pointe pulseless:
 - 2g in 10mL NS IV/IO bolus
- Torsades De Pointe with a pulse:
 - 2g in 10mL NS IV/IO push over 1-2minutes.
- Bronchospasm
 - 2g in 100mL NS IV/IO over 20 minutes
- Eclampsia
 - o 6grams in 10mL NS IV/IO push over 15minutes. Base MD Order.

Pediatric Administration:

• Not recommended for prehospital use

Indications:

Seizures related to eclampsia Torsades De Pointe

- Vfib, Pulseless V-Tach
- V-Tach with a pulse
- Post conversion of VF/VT

Contraindications:

Hypersensitivity Sinus Bradycardia Pediatrics

Side Effects:

- Hypotension
- Hypertension
- Dysrhythmias
- Facial flushing
- Diaphoresis
- Depressed Reflexes

This document is not a substitute for Protocols and Procedures. Effective Date: July 1, 2022 • Bradycardia

Pregnancy: Category A

Notes:

- Magnesium is a naturally occurring positive ion present in all cells of the body. •
- Check deep tendon reflexes every 15 minutes and continuously monitor respirations. •
- Discontinue administration if either become depressed.