## **Magnesium Sulfate**

**ABCs Detailed Assessment** Obtain History (1) Start IV LR at 125 ml/hour Bolus with 4 grams magnesium sulfate (40 grams / 1 liter premix) over 20 minutes. Contact Medical Control prior to administering Magnesium Sulfate. Administer Magnesium Sulfate Bolus: 4 grams = 300 ml/hr with 100 ml limit 6 grams = 450 ml/hr with 150 ml limit Administer over 20 minutes Then Magnesium Sulfate Maintenance Dose: 2 grams = 50 ml/hr 3 grams = 75 ml/hr 4 grams = 100 ml/hr May consider giving an additional bolus of 2 grams of MgSO4 over 15 minutes when increasing the maintenance rate. **Transport** Closely monitor for changes in status Keep patient warm

**Observe for Maternal Side Effects:** 

- \* Nausea and vomiting
- \* Initial flushing
- \* Transient lowering of blood pressure
- \* Diuretic inactivation may cause fluid retention.
- \* Decreased fetal variability
- \* CNS depression
- \* Pulmonary edema ( patient receiving both magnesium sulfate and betamethasone)
- \* Respiratory depression
- \* Chest Pain
- \* Muscle weakness/ hypotonia
- \* Headache
- \* Depressed / Weak reflexes
- \* Hypertension

Magnesium Levels effects:

2.5 – 5 possible EKG changes (2)

5- 7 therapeutic

reflexes are decreased, decreased urine output

12-14 respiratory depression, hypotension, unresponsiveness cardiac dysrhythmias, fetal distress.

Antagonist is Calcium Gluconate (3)

- 1. Assess DTR's clonus, fetal heart tones, uterine activity, cervical status if appropriate, lung sounds, epigastric pain, and vital signs.
- 2. EKG changes: P-Q interval prolongation, wide QRS.
- 3. Calcium gluconate 10%: 10 ml of 10% solution over 10 minutes. Monitor EKG for cardiac arrhythmias.