Magnesium Sulfate for Preterm Labor and Preterm Birth

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1. During the period 1981 to 2006 in the United States, the rate of preterm birth increased by approximately:

A. 15%
B. 25%
C. 35%
D. 45%
E. 55%
2. Approximately what percent of patients treated for preterm labor will deliver at term?

   A. 10%
   B. 20%
   C. 30%
   D. 40%
   E. 50%

3. The four most common cations in the human body are:

   A. Sodium, potassium, chloride, magnesium
   B. Sodium, potassium, calcium, magnesium
   C. Calcium, sodium, chloride, peroxide
   D. Iron, sodium, potassium, magnesium
   E. Hydrogen, oxygen, nitric oxide, sodium

4. Approximately what proportion of circulating magnesium is in the ionized form?

   A. 15%
   B. 30%
   C. 45%
   D. 60%
   E. 75%

5. To transport magnesium across the cell membrane requires:

   A. Magnesium-specific ion channels
   B. Bivalent coupling with sodium
   C. Protein binding
   D. Energy
   E. Passive diffusion
6. Approximately what proportion of filtered magnesium is reabsorbed by the kidneys?

A. Less than 5%
B. 20%–30%
C. 40%–50%
D. 60%–70%
E. More than 85%

7. Magnesium ions inhibit myometrial contractions by interfering with the functions of:

A. Calcium
B. Sodium
C. Chloride
D. Oxytocin
E. Prostaglandin

8. Magnesium toxicity, such as respiratory depression, generally occurs with serum levels of:

A. 0.5–1 mg/dL
B. 2–3 mg/dL
C. 4–5 mg/dL
D. 6–8 mg/dL
E. 10–12 or more mg/dL

9. When magnesium tocolysis has been compared to either placebo or no therapy, the effect on delaying delivery for 48 hours or more has been:

A. Moderate improvement
B. Slight improvement
C. No demonstrable effect
D. Slight worsening
E. Moderate worsening
10. The potential benefits of antenatal magnesium sulfate in providing neuroprotection were identified in:

A. Prospective cohort trials  
B. Retrospective controlled trials  
C. Prospective case series  
D. Secondary analyses from randomized controlled trials  
E. Randomized controlled trials

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