

### Magnesium Sulfate for Preterm Labor and Preterm Birth

Brian M. Mercer, MD, and Amy A. Merlino, MD, for the Society for Maternal–Fetal Medicine  
*Obstet Gynecol* 2009;114(3)

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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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