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## **REFERENCES**

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1. Sweetman SC. Martindale: the complete drug reference. 34<sup>th</sup> ed. London: Pharmaceutical Press, 2005.
2. Buvanendran A, McCarthy R, Kroin JS, Tuman KJ. Potentiation of labor analgesia with addition of magnesium sulfate to fentanyl: a prospective randomized study. *Anesthesiology* 2001; 95: 1049-54.
3. Terui K The effect of magnesium on coagulation in parturients with preterm labor. *Anesthesiology* 2002; 96: 1065-7.
4. Alina MG. Neuro-protection by high dose magnesium in CABG patients: preliminary data. *Anesthesiology* 2001; 95: 331-50.
5. Mudge GH, Weiner IM. Agents affecting volume and composition of body fluids; in Goodman AG, editor. *The pharmacological basis of therapeutics*. 10<sup>th</sup> ed. New York: Maxwell McMillan Co. 2002.
6. Ozcan PE, Tugrul S, Senturk NM. Role of magnesium sulfate in postoperative pain management for patients undergoing thoracotomy. *J Cardiothorac Vasc Anesthesia* 2007; 21 (6): 827-31.
7. Buvanendran A, McCarthy RJ, Kroin JS, Leong W, Perry P, Tuman KJ. Intrathecal magnesium prolongs fentanyl analgesia: a prospective, randomized controlled trial. *Anesth Analg*. 2002; 96(5): 1533-6.
8. James MF, Beer RE, Esser JD. Intravenous magnesium sulfate inhibits catecholamine release associated with tracheal intubation. *Anesth Analg* 1989; 68(6): 772-6.
9. Wilder-Smith OH, Arendt-Nielsen L, Gäumann D, Tassonyi E, Rifat KR. Sensory changes and pain after abdominal hysterectomy: a Comparison of anesthetic supplementation with fentanyl versus magnesium or ketamine. *Anesth Analg* 1998; 86(1): 95-101.
10. Koinig H, Wallner T, Marhofer P, Andel A, Horauf K, Mayer N. Magnesium sulfate reduces intra- and post-operative analgesic requirements. *Anesth Analg* 1998; 87(1): 206-10.
11. Zarauza R. A comparative study with oral nifedipine and magnesium sulfate in postoperative analgesia. *Anesth Analg* 2000; 91(4): 938-43.

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12. Durmus M, But AK, Erdem TB, Ozpolat Z, Ersoy MO. The effects of magnesium sulphate on sevoflurane minimum alveolar concentrations and haemodynamic responses. *Eur J Anesthesiol* 2006; 23(1):54-9.
  13. Beattie WS, Elliot RF. Magnesium supplementation reduces the risk of arrhythmia after cardiac surgery. *Evid Based Cardiovasc Med* 2005; 9(1): 82-5.
  14. Hornestam B. Adding magnesium sulfate to usual care may improve rate and rhythm control for people with rapid atrial fibrillation. *Evid Based Cardiovasc Med* 2005; 9(3): 168-71.

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