MAGNEsium Trial In Children (MAGNETIC): a randomised, placebo controlled trial and economic evaluation of nebulised magnesium sulphate in acute severe asthma in children


Record Status
This is a bibliographic record of a published health technology assessment from a member of INAHTA. No evaluation of the quality of this assessment has been made for the HTA database.

Citation

Authors' objectives
Does the use of nebulised MgSO4, when given as an adjunct to standard therapy in acute severe asthma in children, result in a clinical improvement when compared with standard treatment alone?

Authors' conclusions
This study supports the use of nebulised isotonic MgSO4 at the dose of 151 mg given three times in the first hour of treatment as an adjuvant to standard treatment when a child presents with an acute episode of severe asthma. No harm is done by adding magnesium to salbutamol and ipratropium bromide, and in some individuals it may be clinically helpful. The response is likely to be more marked in those children with more severe attacks and with a shorter duration of exacerbation. Although the study was not powered to demonstrate this fully, the data certainly support the hypotheses that nebulised magnesium has a greater clinical effect in children who have more severe exacerbation with shorter duration of symptoms.

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