Title:  MMR Vaccine: Clinical and Cost-Effectiveness

Date:  15 July 2008

Research question:

1.  What is the evidence for the clinical benefit and harm of the MMR vaccine in children under 2 years of age?

2.  What is the cost-effectiveness of the MMR vaccine in children under 2 years of age?

Methods:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 2, 2008), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international HTA agencies, and a focused Internet search. Results include articles published between 2003 and July 2008, and are limited to English language publications only. Filters were applied to limit the retrieval to systematic reviews/health technology assessments, randomized controlled trials and economic studies. Internet links are provided, where available.

Results:

HTIS reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews and meta-analyses are presented first. These are followed by economic evaluations, randomized controlled trials (RCTs), and evidence-based guidelines.

This report has been divided into two parts: references pertaining to the MMR vaccine without the varicella vaccine and references pertaining to the MMR vaccine administered either together or in conjunction with the varicella vaccine. One health technology assessment, four systematic reviews, three economic studies, and three RCTs were identified pertaining to the clinical and cost-effectiveness of the MMR vaccine alone. One cost study and seven RCTs were identified pertaining to the clinical and cost-effectiveness of the MMRV vaccine or the MMR vaccine given
in conjunction with the varicella vaccine. Additional information that may be of interest has been included in the Appendix, which is also divided according to MMR with or without varicella.

**MMR vaccine without varicella**

**Health technology assessments**


**Systematic reviews and meta-analyses**


**Economic analyses and cost information**


**Randomized controlled trials**


**MMR vaccine with varicella vaccine**

**Economic and cost information**


**Randomized controlled trials**


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Appendix – further information:

**MMR without varicella**

**Observational studies**


Review articles


Additional references


MMR vaccine with varicella vaccine

Observational studies


Review articles


Additional references