TITLE: Transcutaneous Bilirubin Level Measurements in Newborns: Clinical Effectiveness and Diagnostic Accuracy

DATE: 03 March 2009

RESEARCH QUESTION:

What is the clinical effectiveness and diagnostic accuracy of transcutaneous bilirubin level measurements in newborns?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 4, 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 2004 and February 2009 and are limited to English language publications only. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, and guidelines. 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 randomized controlled trials and evidence-based guidelines.

One randomized controlled trial and three evidence-based guidelines were identified pertaining to the clinical effectiveness and diagnostic accuracy of transcutaneous bilirubin level measurements in newborns. No health technology assessments, systematic reviews, or meta-analyses were identified. Additional information that may be of interest has been included in the appendix.

Health technology assessments
No literature identified.

Disclaimer: The Health Technology Inquiry Service (HTIS) is an information service for those involved in planning and providing health care in Canada. HTIS responses are based on a limited literature search and are not comprehensive, systematic reviews. The intent is to provide a list of sources of the best evidence on the topic that CADTH could identify using all reasonable efforts within the time allowed. HTIS responses should be considered along with other types of information and health care considerations. The information included in this response is not intended to replace professional medical advice, nor should it be construed as a recommendation for or against the use of a particular health technology. Readers are also cautioned that a lack of good quality evidence does not necessarily mean a lack of effectiveness particularly in the case of new and emerging health technologies, for which little information can be found, but which may in future prove to be effective. While CADTH has taken care in the preparation of the report to ensure that its contents are accurate, complete and up to date, CADTH does not make any guarantee to that effect. CADTH is not liable for any loss or damages resulting from use of the information in the report.

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Links: This report may contain links to other information on available on the websites of third parties on the Internet. CADTH does not have control over the content of such sites. Use of third party sites is governed by the owners’ own terms and conditions.
Systematic reviews and meta-analyses
No literature identified.

Randomized controlled trials


Guidelines and recommendations


Full text available: [http://aappolicy.aappublications.org/cgi/content/full/pediatrics;114/1/297/](http://aappolicy.aappublications.org/cgi/content/full/pediatrics;114/1/297/) accessed 2009 Mar 2).

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APPENDIX – FURTHER INFORMATION:

Observational studies


Product information


**Additional references**
