Title: Serum Lactate as a Predictor of Mortality from Sepsis: Clinical Review of Accuracy and Guidelines for Use

Date: 30 April 2008

Research questions:

1. What is the accuracy of serum lactate as a predictor of mortality from sepsis?
2. Is there evidence that serum lactate influences other treatment interventions for sepsis?
3. What are the guidelines for use of serum lactate testing in patients with sepsis?

Methods:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 1, 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 April 2008, and are limited to English language publications only. No filters were applied to limit the retrieval by study type. 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, observational studies and evidence-based guidelines.

Fifteen observational studies and three evidence-based guidelines were identified. No health technology assessments, systematic reviews, meta-analyses, or randomized controlled trials were identified by the literature search. Additional articles of interest are included in the appendix.
Health technology assessments
No literature identified

Systematic reviews and meta-analyses
No literature identified

Randomized controlled trials
No literature identified

Observational studies


Guidelines and recommendations


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Appendix – Further information:

Additional references


