TITLE: Point of Care Troponin I and Myoglobin Testing in a Pre-hospital Setting: Clinical Effectiveness and Guidelines

DATE: 13 July 2010

RESEARCH QUESTIONS:

1. What is the clinical effectiveness of point-of-care testing for cardiac troponin I and myoglobin in a pre-hospital setting?

2. What are the guidelines for the use of point-of-care testing for cardiac troponin I and myoglobin in a pre-hospital setting?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 6, 2010), University of York Centre for Reviews and Dissemination (CRD) databases, EuroScan, international health technology agencies, and a focused Internet search. The search was limited to English language articles published between Jan 1, 2005 and Jun 9, 2010. No filters were applied to limit the retrieval by study type. Internet links were 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 (RCTs), non-randomized studies, and evidence-based guidelines.

Three non-randomized studies and one evidence-based guideline were identified pertaining to the clinical effectiveness and use of point-of-care testing for cardiac troponin I and myoglobin in a pre-hospital setting. No relevant health technology assessment reports, systematic reviews, meta-analyses, or RCTs were found. Additional articles of potential interest can be found in the appendix.
Health technology assessments
No literature identified.

Systematic reviews and meta-analyses
No literature identified.

Randomized controlled trials
No literature identified.

Non-randomized studies


Guidelines and recommendations

   Note: See page 55

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APPENDIX – FURTHER INFORMATION:

Non-randomized studies


Guidelines and recommendations

Note: See page 29 and Appendix 1

Review articles


Additional references