TITLE: Point of Care Arterial Blood Gas Testing Compared to End-tidal CO\textsubscript{2} Monitoring: Clinical Effectiveness

DATE: 06 March 2009

RESEARCH QUESTION:

What is the clinical effectiveness of point of care arterial blood gas testing compared to end-tidal CO\textsubscript{2} monitoring for patients in an emergency setting?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 1, 2009), 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 2006 and March 2009, 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, controlled clinical trials, observational studies, and evidence-based guidelines.

One observational study was identified pertaining to the clinical effectiveness of point of care arterial blood gas testing compared to end-tidal CO\textsubscript{2} monitoring for patients in an emergency setting. No health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, or evidence-based guidelines were identified. Additional observational studies pertaining to non-emergency populations, as well as studies in which it was unclear as to whether the testing was point of care were identified and have been included in the appendix.
Health technology assessments
No literature identified.

Systematic reviews and meta-analyses
No literature identified.

Randomized controlled trials
No literature identified.

Controlled clinical trials
No literature identified.

Observational studies


Guidelines and recommendations
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Observational studies: non-emergency population


Observational studies: POC testing status unclear
