TITLE: i-STAT Point of Care Blood Testing System: Clinical and Cost-Effectiveness, and Diagnostic Accuracy

DATE: 20 August 2009

RESEARCH QUESTIONS:

1. What is the clinical effectiveness and diagnostic accuracy of the i-STAT point of care blood testing system?

2. What is the cost-effectiveness of the i-STAT point of care blood testing system?

METHODS: A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 3, 2009), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. The search was limited to English language articles published between 2004 and August 2009. No filters were applied to limit the retrieval by study type. Internet links are provided, where available.

RESULTS: The literature search identified 15 observational studies on the diagnostic accuracy and benefits of the i-STAT point of care blood testing system. No health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, or economic studies were identified. No information was identified on the cost-effectiveness of the i-STAT instrument.

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 economic evaluations.

Health technology assessments
No literature identified

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**Observational studies**


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*i-STAT is reported on pages 17-31*


Economic evaluations
No literature identified

PREPARED BY:
Karen Cimon, Research Assistant
Charlene Argáez, MLIS, Information Specialist
Health Technology Inquiry Service
Email: htis@cadth.ca
Tel: 1-866-898-8439
APPENDIX – FURTHER INFORMATION:

Additional references


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**‘iStat is reported on pages 43-49’**