CADTH RAPID RESPONSE REPORT: REFERENCE LIST

Diagnostic Tests for Group A Streptococcal Infection: Clinical and Cost-Effectiveness and Guidelines
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Acknowledgments:

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About CADTH: CADTH is an independent, not-for-profit organization responsible for providing Canada’s health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs, medical devices, diagnostics, and procedures in our health care system.
Research Questions

1. What is the comparative test accuracy of diagnostic tests for group A streptococcal infection?
2. What is the comparative cost-effectiveness of diagnostic tests for group A streptococcal infection?
3. What are the evidence-based guidelines regarding the diagnosis of group A streptococcal infection?

Key Findings

Three systematic reviews, including two with meta-analysis, and 15 non-randomized studies were identified regarding the accuracy of diagnostic tests for group A streptococcal infection.

Methods

A limited literature search, with main concepts appearing in title or major subject heading, was conducted on key resources including PubMed, The Cochrane Library, University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. No methodological filters were applied to limit retrieval by study type. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2012 and August 15, 2017. Internet links were provided, where available.

Selection Criteria

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

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<th>Table 1: Selection Criteria</th>
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<td><strong>Population</strong></td>
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<td><strong>Intervention</strong></td>
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| **Comparators** | Q1-2: Other tests to diagnose group A streptococcal infection  
Q3: No comparator |
| **Outcomes** | Q1: Diagnostic test accuracy, safety  
Q2: Cost-effectiveness  
Q3: Guidelines |
| **Study Designs** | Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations, evidence-based guidelines |
Results

Rapid Response 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, non-randomized studies, economic evaluations, and evidence-based guidelines.

Three systematic reviews, including two with meta-analysis, and 15 non-randomized studies were identified regarding accuracy of diagnostic tests for group A streptococcal infection. No relevant health technology assessments, randomized controlled trials, economic evaluations, or evidence-based guidelines were identified.

Additional references of potential interest are provided in the appendix.

Health Technology Assessments

No literature identified.

Systematic Reviews and Meta-analyses


Randomized Controlled Trials

No literature identified.

Non-Randomized Studies


Economic Evaluations
No literature identified.

Guidelines and Recommendations
No literature identified.
Appendix — Further Information

Non-Randomized Studies

No Comparator

   PubMed: PM28557742

   PubMed: PM26491174

   PubMed: PM26873279

   PubMed: PM23182565

Uncertain Comparator

   PubMed: PM28503998

Additional References

   PubMed: PM28052179