TITLE: Mass Thermography Screening for Infection Detection and Prevention: Clinical Effectiveness

DATE: 17 October 2014

RESEARCH QUESTION

What is the effectiveness of screening for fever at border crossings to reduce the risk of outbreaks?

KEY FINDINGS

Five non-randomized studies were identified regarding mass thermography screening for infection detection and prevention.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2014, Issue 10), 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 filters were applied to limit the 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, 2004 and October 15, 2014. Internet links were provided, where available.

SELECTION CRITERIA

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

<table>
<thead>
<tr>
<th>Population</th>
<th>Any traveler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention</td>
<td>Mass-screening with infrared thermography</td>
</tr>
<tr>
<td>Comparator</td>
<td>None</td>
</tr>
<tr>
<td>Outcomes</td>
<td>Effectiveness for detecting fever and/or infection, accuracy, outbreak</td>
</tr>
</tbody>
</table>

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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, and non-randomized studies.

Five non-randomized studies were identified regarding mass thermography screening for infection detection and prevention.

Additional references of potential interest are provided 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


APPENDIX – FURTHER INFORMATION:

Non-Randomized Studies – Unspecified Technology, Other Outcome or Population


PubMed: PM15499826

Review Articles

See: Non-contact infrared thermometers, pages 2-3; Dengue, page 3

PubMed: PM19215720

Additional References


PubMed: PM15705315