TITLE: Wearable Continuous Ultrasound Therapy for Musculoskeletal Injuries: Clinical Effectiveness

DATE: 13 August 2015

RESEARCH QUESTION

What is the clinical effectiveness of wearable continuous ultrasound therapy devices for musculoskeletal injury?

KEY FINDINGS

One randomized controlled trial and two non-randomized study were identified regarding the clinical effectiveness of wearable continuous ultrasound therapy devices for musculoskeletal injury.

METHODS

A limited literature search was conducted on key resources including MEDLINE, 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 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, 2010 and August 6, 2015. 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 1: Selection Criteria

<table>
<thead>
<tr>
<th>Population</th>
<th>Adults with musculoskeletal injury</th>
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<tbody>
<tr>
<td>Intervention</td>
<td>Wearable continuous ultrasound devices (e.g., sam®)</td>
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<tr>
<td>Comparator</td>
<td>No comparator; Any comparator</td>
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<tr>
<td>Outcomes</td>
<td>Clinical effectiveness (e.g., reduced pain, improved healing, safety, harms)</td>
</tr>
<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies.</td>
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</table>

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.

One randomized controlled trial and two non-randomized study were identified regarding the clinical effectiveness of wearable continuous ultrasound therapy devices for musculoskeletal injury. No relevant health technology assessments, systematic reviews, or meta-analyses were identified.

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses
No literature identified.

Randomized Controlled Trials


Non-Randomized Studies

