Bobath Therapy for Patients with Neurological Conditions: Clinical-Effectiveness, 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 clinical-effectiveness of Bobath therapy (neuro-developmental treatment) for treatment of patients with neurological conditions?

2. What is the cost-effectiveness of Bobath therapy (neuro-developmental treatment) for treatment of patients with neurological conditions?

3. What are the evidence-based guidelines of Bobath therapy (neuro-developmental treatment) for treatment of patients with neurological conditions?

Key Findings

One systematic review with meta-analysis, four randomized controlled trial, and one non-randomized study were identified regarding the clinical evidence regarding the Bobath therapy for patients with neurological conditions. No relevant economic evaluations or evidence-based guidelines were identified.

Methods

A limited literature search was conducted on key resources including PubMed, CINAHL via EBSCOHost, 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, 2013 and October 11, 2018. 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 neurological conditions (e.g., post-stroke)</th>
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<tr>
<td>Intervention</td>
<td>The Bobath therapy technique (also known as ‘neurodevelopmental treatment’)</td>
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<td>Comparator</td>
<td>Q1-2: Usual care (e.g., repetitive functional tasks, starting moving through motions w/ patients, giving aid to do by themselves, practice/weaning); Other treatments Q3: No comparator</td>
</tr>
<tr>
<td>Outcomes</td>
<td>Q1: Clinical effectiveness (functionality, functional independence measure) Q2: Cost effectiveness Q3: Guidelines</td>
</tr>
<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations, evidence-based guidelines</td>
</tr>
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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, non-randomized studies, economic evaluations, and evidence-based guidelines.

One systematic review with meta-analysis, four randomized controlled trial, and one non-randomized study were identified regarding the clinical evidence regarding the Bobath therapy for patients with neurological conditions. No relevant health technology assessments, 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


Non-Randomized Studies

PubMed: PM28582897

Economic Evaluations

No literature identified.

Guidelines and Recommendations

No literature identified.
Appendix — Further Information

Non-Randomized Studies

Alternative Comparator


No Comparator


Review Articles


Additional References