TITLE: Compression Therapy Based on Ankle Brachial Index, Toe Brachial Index, or Toe Pressure Measurements in Chronic Venous Insufficiency: Guidelines

DATE: 14 April 2015

RESEARCH QUESTION

What are the evidence-based guidelines regarding the appropriate use of compression therapy based on ankle brachial index, toe brachial index, or toe pressure values in patients with chronic venous insufficiency?

KEY FINDINGS

No relevant literature was identified regarding the appropriate use of compression therapy based on ankle brachial index, toe brachial index, or toe pressure values in patients with chronic venous insufficiency.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2015, Issue 3), 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 April 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>Category</th>
<th>Description</th>
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<tbody>
<tr>
<td>Population</td>
<td>Patients with chronic venous insufficiency</td>
</tr>
<tr>
<td>Intervention</td>
<td>Compression therapy (including stockings and devices) based on measurement of ankle brachial index, toe brachial index, or toe pressure</td>
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<tr>
<td>Comparator</td>
<td>No comparator</td>
</tr>
<tr>
<td>Outcomes</td>
<td>Guidelines for safe compression and level of compression (mmHg)</td>
</tr>
<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, evidence-based guidelines</td>
</tr>
</tbody>
</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 evidence-based guidelines.

No relevant health technology assessment reports, systematic reviews, meta-analyses, or evidence-based guidelines were identified regarding the appropriate use of compression therapy based on ankle brachial index, toe brachial index, or toe pressure values in patients with chronic venous insufficiency.

References of potential interest are provided in the appendix.

### OVERALL SUMMARY OF FINDINGS

No relevant literature was identified regarding the appropriate use of compression therapy based on ankle brachial index, toe brachial index, or toe pressure values in patients with chronic venous insufficiency; therefore, no summary can be provided.
REFERENCES SUMMARIZED

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses
No literature identified.

Guidelines and Recommendations
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Non-Randomized Studies

   PubMed: PM21944912

Guidelines and Recommendations – Alternate Intervention

   PubMed: PM21536172

Review Articles

   PubMed: PM21908148

Additional References

   PubMed: PM24527315