TITLE: Withholding Anti-Hypertensive Medication from Elderly Orthopedic Surgery Patients: Guidelines

DATE: 2 November 2015

RESEARCH QUESTION

What are the evidence-based guidelines regarding criteria for withholding anti-hypertensive therapy for elderly (aged ≥ 65 years) orthopedic surgery patients?

KEY FINDINGS

No relevant literature was identified regarding criteria for withholding anti-hypertensive therapy for elderly (aged ≥ 65 years) orthopedic surgery patients.

METHODS

A limited literature search 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 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 October 27, 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

| Population                       | Elderly (aged ≥ 65 years) orthopedic surgery patients  
Subgroup of interest: hip fracture |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention</td>
<td>Withholding of anti-hypertensive therapy (e.g., beta-blockers, diuretics, angiotensin receptor blockers)</td>
</tr>
<tr>
<td>Comparator</td>
<td>No comparator required</td>
</tr>
<tr>
<td>Outcomes</td>
<td>Evidence-based guidelines regarding the withholding (discontinuation or removal) of therapy based on blood pressure and/or pulse measurement or other criteria</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 assessments, systematic reviews, meta-analyses, or evidence-based guidelines were identified regarding criteria for withholding anti-hypertensive therapy for elderly orthopedic surgery patients.

References of potential interest are provided in the appendix.

**Health Technology Assessments**
No literature identified.

**Systematic Reviews and Meta-analyses**
No literature identified.

**Guidelines and Recommendations**
No literature identified.

**PREPARED BY:**
Canadian Agency for Drugs and Technologies in Health
Tel: 1-866-898-8439
[www.cadth.ca](http://www.cadth.ca)
APPENDIX – FURTHER INFORMATION:

Systematic Reviews – Orthopedic Surgery Not Specified


Evidence-Based Guidelines – Orthopedic Surgery Not Specified


Non-Randomized Studies


Elderly Population Not Specified in Abstract


Review Articles

See: Table 3 - A Guide to Discontinuing Antihypertensives