Home versus Hospital Administration of Bortezomib: Comparative Clinical Effectiveness
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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 Question
What is the comparative clinical effectiveness of home versus hospital administration of bortezomib?

Key Findings
One non-randomized study was identified regarding the clinical effectiveness of home versus hospital administration of bortezomib.

Methods
A limited literature search was conducted on key resources including PubMed, Ovid Embase, 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 retrieval by publication type. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2012 and November 9, 2017. 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>Adult patients receiving bortezomib based chemotherapy for myeloma</th>
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</thead>
<tbody>
<tr>
<td>Intervention</td>
<td>Home administration of bortezomib</td>
</tr>
<tr>
<td>Comparator</td>
<td>Hospital administration of bortezomib</td>
</tr>
<tr>
<td>Outcomes</td>
<td>Clinical effectiveness (benefit/harm), safety</td>
</tr>
<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies</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 randomized controlled trials and non-randomized studies.

One non-randomized study was identified regarding the clinical effectiveness of home versus hospital administration of bortezomib. No relevant health technology assessments, systematic reviews, meta-analyses, or randomized controlled trials were identified.

Additional references of potential interest are provided in the appendix.

Overall Summary of Findings

One non-randomized study\(^1\) was identified regarding the clinical effectiveness of home versus hospital administration of bortezomib. The investigators of this prospective study\(^1\) subcutaneously delivered the first administration of bortezomib in an outpatient unit to 50 myeloma patients. When possible, all subsequent doses of bortezomib were provided at home. Patients were required to complete two questionnaires analyzing 16 criteria including quality of life and safety. The study found that 98% of patients preferred home administration over hospital administration of bortezomib.

References Summarized

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 – Conference Abstracts


Economic Evaluations


Conference Abstract


Review Articles