TITLE: First Dose Intravenous Antibiotic Administration in Home Care Settings: Safety and Guidelines

DATE: 7 July 2015

RESEARCH QUESTIONS

1. What is the clinical evidence regarding the safety of first dose intravenous antibiotic medication administered in home care settings?

2. What are the evidence-based guidelines regarding first dose intravenous antibiotic medication administered in home care settings?

KEY FINDINGS

No relevant literature was identified regarding the administration of the first dose of antibiotics in home care settings.

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 June 26, 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>Patients requiring intravenous antibiotic medication (for any condition)</th>
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<tbody>
<tr>
<td>Intervention</td>
<td>First dose intravenous antibiotic medication administered in home care settings (e.g., patient’s home, long-term care)</td>
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<tr>
<td>Comparator</td>
<td>First dose intravenous antibiotic medication administered in hospital setting; no comparator</td>
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</table>
| Outcomes               | Q1: Patient safety (e.g., adverse or allergic reactions, rate of infection)  
                              Q2: Guidelines and recommendations |
| Study Designs           | Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, evidence-based guidelines |

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, and evidence-based guidelines.

No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, or evidence-based guidelines were identified.

References of potential interest are provided in the appendix.

OVERALL SUMMARY OF FINDINGS

No relevant literature was found regarding the administration of the first dose of antibiotics in home care settings; therefore, no summary can be provided.
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
No literature identified.

Guidelines and Recommendations
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Previous CADTH Reports


Non-Randomized Studies – First Dose not Specified


Review Articles