Rapid Response Report: Summary of Abstracts

TITLE: Cleansers or Disinfectants for Cleaning Chemotherapeutic Agent Residue: Clinical Effectiveness and Guidelines

DATE: 23 July 2015

RESEARCH QUESTION

1. What is the clinical effectiveness of cleansers or disinfectants for cleaning treatment or preparation areas where chemotherapeutic agents are used?

2. What are the evidence-based guidelines associated with the use of cleansers or disinfecting agents for cleaning treatment or preparation areas where chemotherapeutic agents are used?

KEY FINDINGS

One evidence-based guideline was identified regarding the use of cleansers or disinfecting agents for cleaning treatment or preparations areas where chemotherapeutic agents are used.

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 methodological 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, 2010 and July 10, 2015. Internet links were provided, where available.

The summary of findings was prepared from the abstracts of the relevant information. Please note that data contained in abstracts may not always be an accurate reflection of the data contained within the full article.
SELECTION CRITERIA

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

<table>
<thead>
<tr>
<th>Table 1: Selection Criteria</th>
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<tbody>
<tr>
<td><strong>Population</strong></td>
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<tr>
<td>Patients and staff potentially exposed to chemotherapeutic agents or residue in treatment or preparation areas</td>
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<td><strong>Intervention</strong></td>
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<td>Any cleanser or disinfectant used to clean and remove chemotherapeutic agents or residue (e.g., bleach, soap and water with appropriate friction, Ultra Quot, accelerated hydrogen peroxide)</td>
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<tr>
<td><strong>Comparator</strong></td>
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<tr>
<td>No comparator; Any cleaning or disinfecting agent</td>
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<tr>
<td><strong>Outcomes</strong></td>
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<tr>
<td>Q1: Clinical effectiveness of cleansers or disinfectants (ability to remove chemotherapeutic agents; safety, including, but not limited to, unnecessary exposure to chemotherapeutic agents)</td>
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<td>Q2: Guidelines</td>
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<td><strong>Study Designs</strong></td>
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<tr>
<td>Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, evidence-based guidelines</td>
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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, and evidence-based guidelines.

One evidence-based guideline was identified regarding the use of cleansers or disinfecting agents for cleaning treatment or preparations areas where chemotherapeutic agents are used. No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, or non-randomized studies were identified.

Additional references of potential interest are provided in the appendix.

OVERALL SUMMARY OF FINDINGS

One evidence-based guideline\(^1\) was identified regarding the use of cleansers or disinfecting agents for cleaning treatment or preparations areas where chemotherapeutic agents are used. In handling spills, an external reviewer recommends a two-step process: clean with 0.05 M sodium hydroxide solution, followed by 98% isopropyl alcohol.\(^1\) With regard to the cleaning of drug containers, pre-moistened toilettes or a disposable cloth dampened with a solution of detergent and water is recommended.\(^1\)
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


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APPENDIX – FURTHER INFORMATION:

Non-Randomizes Studies

No Patient Reported Outcomes


Lab Studies, No Patient Reported Outcomes


Clinical Practice Guidelines – Uncertain Methodology


Additional References