TITLE: Pre-Operative Skin Antiseptics for Mucous Membrane Preparation in Patients with Contraindications to Povidone Iodine: Clinical Effectiveness and Guidelines

DATE: 08 May 2015

RESEARCH QUESTIONS

1. What is the clinical effectiveness of pre-operative skin antiseptics for mucous membrane preparation in surgical patients with contraindications to povidone iodine?

2. What is the clinical effectiveness of pre-operative use of non-medicated soap for mucous membrane preparation in surgical patients with contraindications to povidone iodine?

3. What are the evidence-based guidelines regarding pre-operative mucous membrane preparation in surgical patients with contraindications to povidone iodine?

KEY FINDINGS

No relevant literature was identified regarding the clinical effectiveness of pre-operative skin antiseptics or non-medicated soap for mucous membrane preparation in surgical patients with contraindications to povidone iodine. Also, no relevant evidence-based guidelines were identified regarding mucous membrane preparation in surgical patients with contraindications to povidone iodine.

METHODS

A limited literature search was conducted on key resources including PubMed and CINAHL, The Cochrane Library (2015, Issue 4), Canadian and major international health technology agencies, as well as a focused Internet search. No methodological filters were applied. Where possible, retrieval was limited to the human population. The search was also limited to documents published between January 1, 2010 and May 04, 2015. Internet links were provided, where available.

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SELECTION CRITERIA

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

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<th>Table 1: Selection Criteria</th>
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<td><strong>Population</strong></td>
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| **Intervention** | Q1: Skin antiseptics excluding iodine products (including but not limited to: low dose chlorhexidine gluconate with and without alcohol, alcohol, halogenated phenol derivatives [e.g., triclosan, chloroxylenol, hexachlorophene])  
Q2: Non-medicated soap and water  
Q3: Any pre-operative skin preparation product |
| **Comparator** | Any alternate skin antiseptic (excluding iodine products) or skin preparation technique;  
No skin/surface preparation;  
No comparator |
| **Outcomes** | Q1 and 2: Clinical effectiveness (reduced surgical site infection rate)  
Safety (e.g., skin irritation, chemical burns, allergic reaction)  
Q3: Guidelines and recommendations |
| **Study Designs** | Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, evidence-based guidelines |

RESULTS

No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, or non-randomized studies were identified regarding the clinical effectiveness of pre-operative skin antiseptics or non-medicated soap for mucous membrane preparation in surgical patients with contraindications to povidone iodine. In addition, no relevant evidence-based guidelines were identified regarding mucous membrane preparation in surgical patients with contraindications to povidone iodine.

References of potential interest are provided in the appendix.

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.
APPENDIX – FURTHER INFORMATION:

Clinical Practice Guidelines – Uncertain Methodology

   See: Which antiseptic should be used for vaginal antisepsis if the patient is allergic to iodine?


Additional References