TITLE: Enteral Nutrition Administration Sets for Pediatric Patients in the Home Care Setting: Guidelines

DATE: 01 March 2016

RESEARCH QUESTIONS

1. What are the evidence-based guidelines regarding the use of enteral nutrition administration sets for pediatric patients in the home care setting?

2. What are the evidence-based guidelines regarding the reuse of enteral nutrition administration sets for pediatric patients in the home care setting?

KEY FINDINGS

One evidence-based guideline regarding the use and reuse of enteral nutrition administration sets for pediatric patients in a primary care or community setting was identified.

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, 2006 and February 24, 2016. 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 1: Selection Criteria

<table>
<thead>
<tr>
<th>Population</th>
<th>Pediatric patients with gastroesophageal reflux disease (GERD); Subgroups: less than 4 months of age versus more than 4 months of age; immunocompetent versus immunocompromised</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention</td>
<td>Enteral feeding via gastrostomy tube using a pump and administration set; Subgroups: breast milk versus formula</td>
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<tr>
<td>Comparator</td>
<td>None</td>
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<tr>
<td>Outcomes</td>
<td>Evidence-based guidelines, best practice, optimal timing of set change (e.g., 4 hours vs 1 day vs 3 days vs 1 week), appropriateness criteria regarding changing sets and cleaning procedures</td>
</tr>
<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, 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 evidence-based guidelines.

One evidence-based guideline was identified. No health technology assessments, systematic reviews, or meta-analyses were identified.

Additional references of potential interest are provided in the appendix.

OVERALL SUMMARY OF FINDINGS

One evidence-based guideline, produced by NICE in 2012, was identified.¹ The enteral feeding section of the guideline is specific to adults and children over one year of age in a primary care or community setting. It states that administration sets and feed containers for enteral feeding are for single use and therefore must be discarded after each feeding.
REFERENCES SUMMARIZED

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses
No literature identified.

Guidelines and Recommendations

   See: Section 11 Enteral Feeding, pp. 155-163

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APPENDIX – FURTHER INFORMATION:

Guidelines and Recommendations – Methodology Uncertain


Position Papers


Non-Randomized Studies


Review Articles


Additional References