TITLE: Repackaging Parenteral Nutrition for Pediatric Patients: Safety and Guidelines

DATE: 11 November 2016

RESEARCH QUESTIONS

1. What is the safety regarding the repackaging of parenteral nutrition for children in neonatal units?

2. What are the evidence-based guidelines regarding the repackaging of parenteral nutrition for children in neonatal units?

KEY FINDINGS

No relevant health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, or non-randomized studies were identified regarding the safety of repackaging of parenteral nutrition for children in neonatal units. No evidence-based guidelines were identified regarding this population.

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. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2006 and November 4, 2016. 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>Neonatal population in intensive care, requiring parenteral nutrition (specifically, lipid emulsion)</th>
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<tr>
<td>Intervention</td>
<td>Lipid emulsion (central intravenous infusion administered via syringe and syringe pump)</td>
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</table>
| Comparator                          | Q1: Any or no comparator  
Q2: Not applicable                   |
| Outcomes                            | Safety (specifically, risk of infection), guidelines                                            |
| Study Designs                       | Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies (safety only), and evidence-based guidelines |

RESULTS

No relevant health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, or non-randomized studies were identified regarding the safety of repackaging of parenteral nutrition for children in neonatal units. No evidence-based guidelines were identified regarding this population. References of potential interest are provided in the appendix.

OVERALL SUMMARY OF FINDINGS

No relevant literature was found regarding the safety or evidence-based guidelines for repackaging of parenteral nutrition for children in neonatal units; therefore, no summary can be provided.
REFERENCES SUMMARIZED

Health Technology Assessments
No literature was identified.

Systematic Reviews and Meta-analyses
No literature was identified.

Randomized Controlled Trials
No literature was identified.

Non-Randomized Studies
No literature was identified.

Guidelines and Recommendations
No literature was identified.

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APPENDIX – FURTHER INFORMATION:

Non-Randomized Studies

*Pediatric population (neonates not specified)*


   *No patient outcomes*


Guidelines and Recommendations

*Patient population not specified in abstract*


   *Methodology evidence base unclear*


Review Articles

Additional References
