TITLE: The Use of Automated Compounding Devices for the Preparation of Parenteral Nutrition: Clinical Effectiveness, Safety, and Guidelines

DATE: 15 March 2012

RESEARCH QUESTIONS

1. What is the clinical effectiveness of using automated compounding devices for the preparation of parenteral nutrition?

2. What is the clinical evidence of the safety and harms of using automated compounding devices for the preparation of parenteral nutrition?

3. What are the evidence-based guidelines regarding the use of automated compounding devices for the preparation of parenteral nutrition?

KEY MESSAGE

One clinical study was identified regarding the safety and harms of using automated compounding devices for the preparation of parenteral nutrition.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2010, Issue 3), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI (Health Devices Gold), 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, 2007 and March 5, 2012. Internet links were provided, where available.
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 non-randomized study regarding the clinical evidence regarding the safety and harms of using automated compounding devices for the preparation of parenteral nutrition was identified. No evidence regarding the clinical effectiveness or evidence-based guidelines for the use of automated compounding devices for the preparation of parenteral nutrition were identified. Additional 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


Guidelines and Recommendations
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Review Articles


Additional References

Case Report


Safety Standards and Practices
