

Critical Drug Shortages: Management Strategies for the Nutrition Support Professional

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Presentation Title:

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Disclosures

Neither presenter has any commercial relationships relevant to the topic being presented.

Program Overview:

Critical drug shortages have become increasingly common and problematic, making safe administration of parenteral nutrition challenging across all health professions. Currently, one standardized strategy for managing patients on parenteral nutrition during these shortages does not exist. This program will provide a forum for shared experiences and ideas that will help healthcare professionals manage current and future product shortages. The session moderators will provide an overview of the product shortages affecting parenteral nutrition and identify the key issues to consider when developing shortage related strategies and alternatives. Specific topics will include: differing needs of adult versus pediatric patients, inpatients versus outpatients, supply conservation efforts and use of non-standard alternative products. Participants will have the opportunity to share experiences specific to their patient populations and institutions. Participants will be able to learn from these shared experiences and bring back strategies to apply to their daily nutrition support practices.

Learning Objectives:

At the conclusion of this presentation, the learner will be able to:

1. Discuss the challenges of managing parenteral nutrition (PN) product shortages in different patient populations and practice settings
2. Identify clinical consequences of PN product shortages
3. Compare and contrast different options for the management of PN product shortages
4. Formulate a plan for managing ongoing and/or future PN product shortages

Multiple Choice Learning Assessment Questions with Answers: (2-3)

1. Which of the following is a good example of a strategy to use when managing PN product shortages?
 - a. Use of pediatric multivitamins for adult patients during a shortage of adult multivitamin
 - b. Stockpile copper during copper shortage
 - c. Substitute calcium chloride in PN in order to cope with calcium gluconate shortage
 - d. Reduce selenium use in short term and adult PN in order to conserve supplies for neonates, pediatric patients, and long-term PN patients

Answer: D

2. Which of the following statements regarding nutrition related product shortages is false?
 - a. Patient safety may be compromised by PN related product shortages.
 - b. Nutritional deficiencies associate with PN related product shortages have not been reported.

- c. PN related product shortages have resulted in a significant increase in work-load for health-care providers involved in providing nutrition support.
- d. Cost associated with the provision of PN has been increased as a result of PN related product shortages.

Answer: B

- 3. All of the following PN related products have been on recent shortage **except**:
 - a. Intravenous lipid emulsion
 - b. Sodium phosphate
 - c. Dextrose
 - d. Adult multivitamins

Answer: C

References: (up to 10)

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- 3. <http://www.ashp.org/menu/PracticePolicy/ResourceCenters/DrugShortages.aspx>
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- 5. Kaakeh R, Sweet BV, Reilly C, Bush C, DeLoach S, Higgins B, Clark AM, Stevenson J. Impact of drug shortages on U.S. health systems. Am J Health Syst Pharm. 2011 Oct 1;68(19):1811-9. PubMed PMID: 21930639.