

## CE Activity Announcement

### Nutrition Support Certificate Program

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ACPE Activity Number(s): various, see below

Release Date: May 29, 2019

Expiration Date: May 29, 2022

Activity Type: Application-based

Activity Fee: \$445 (ASHP or ASPEN Member); \$545 (Nonmember); modules are not available for individual purchase.

### Accreditation for Pharmacists

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The American Society of Health-System Pharmacists is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

### Accreditation for Physicians

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This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The American Society of Health-System Pharmacists is accredited by the ACCME to provide continuing medical education for physicians.

### Accreditation for Nurses

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This Continuing Nursing Education Activity was approved by the American Society for Parenteral and Enteral Nutrition (ASPEN). ASPEN is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.

ASPEN accredits this activity for nurse contact hours as listed below.

### Target Audience

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This program is intended for pharmacists, physicians, nurses, and other healthcare professionals interested in learning about nutrition support therapy.

### Activity Overview

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This self-guided program consists of 11 modules comprised of online home study activities. Each activity is designed to assess the learners' ability to understand, analyze, and apply materials relevant to nutrition support practice. After completing all of the modules, participants should be proficient in fundamental concepts related to nutrition support care for adult patients.

### Learning Objectives and Schedule of Activities

CE Information	Title, Descriptions, Learning Objectives, Faculty
<p><b>ACPE#:</b> 0204-0000-19-766-H01-P <b>CE Hours:</b> 2.25 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the</p>	<p><b>Title: Prevention, Assessment, and Treatment of Malnutrition</b> <b>Description:</b> This activity describes the etiology, diagnosis, prevention and treatment of malnutrition in adult patients.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"><li>Ainsley Malone, M.S., RDN, L.D., CNSC, FAND, FASPEN</li></ul>

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CE Information	Title, Descriptions, Learning Objectives, Faculty
<p>California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>2.25 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<ul style="list-style-type: none"> <li>• Jay M. Mirtallo, M.S., R.Ph, BCNSP, FASHP, FASPEN</li> <li>• Patricia Worthington, R.N., M.S.N., CNSC</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Describe an etiology-based approach to diagnosing malnutrition.</li> <li>2. Identify patients at risk for malnutrition.</li> <li>3. Recognize clinical outcomes that are affected negatively by malnutrition.</li> <li>4. Employ an appropriate referral process to nutritional specialists.</li> <li>5. Formulate a step-wise nutrition assessment process for patients with nutritional problems.</li> <li>6. Use appropriate criteria to diagnose the presence of malnutrition.</li> <li>7. Review strategies for communicating and documenting nutritional care in the electronic health record.</li> <li>8. Describe ways to address a patient’s nutritional needs in response to changes in clinical status across the healthcare continuum.</li> <li>9. Differentiate between disease and nutritional issues in specific disease states.</li> <li>10. Select appropriate nutrition interventions to mitigate disease specific consequences on clinical outcomes.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-767-H01-P  <b>CE Hours:</b> 2.0  <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>2.0 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Nutritional Requirements</b>  <b>Description:</b> This activity covers the adult nutritional requirements for parenteral nutrition formulations.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Todd W. Canada, Pharm.D., BCNSP, BCCCP, FASHP, FTSH, FASPEN</li> <li>• Carol J. Rollins, Pharm.D., M.S., RD, BCNSP, FASHP, FASPEN</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Evaluate parenteral nutrition orders for the appropriate content and use of macronutrients based on estimated requirements.</li> <li>2. Design a parenteral nutrition formulation that limits dextrose provision while balancing overall nutrient requirements.</li> <li>3. Compare minimum requirements of available lipid emulsion formulations to prevent essential fatty acid deficiency.</li> <li>4. Calculate a patient’s estimated fluid requirements using the three most common methods.</li> <li>5. Evaluate the clinical need to modify fluid provision compared to calculated maintenance fluid requirements.</li> <li>6. Assess the electrolyte content of an initial parenteral nutrition formulation.</li> <li>7. Recommend appropriate electrolyte content adjustments in a parenteral nutrition order, based on a given patient scenario.</li> <li>8. Discuss the importance of providing the full dose of intravenous multivitamin daily in parenteral nutrition.</li> <li>9. Evaluate the trace element content of a parenteral nutrition formulation.</li> <li>10. Discuss the assessment timeline and potential consequences for continuing “empiric” additions or deletions of components to a parenteral nutrition formulation.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-768-H01-P</p>	<p><b>Title: Nutrition Support Access</b></p>

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CE Information	Title, Descriptions, Learning Objectives, Faculty
<p><b>CE Hours:</b> 1.5 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.5 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Description:</b> This activity reviews and evaluates available access options for enteral and parenteral nutrition in adult patients.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• David C. Evans, M.D., FACS</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Identify factors that influence the selection of the appropriate vascular access device for PN.</li> <li>2. Compare and contrast the vascular access options available for administering parenteral nutrition.</li> <li>3. Describe strategies for preventing potential complications of vascular access devices</li> <li>4. Identify factors that influence the selection of the appropriate enteral access device.</li> <li>5. Compare and contrast the access options available for enteral nutrition.</li> <li>6. Describe strategies for preventing potential complications of enteral access devices.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-769-H01-P <b>CE Hours:</b> 1.75 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.75 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Enteral and Parenteral Nutrition Products</b></p> <p><b>Description:</b> This activity describes the rationale and key principles associated with selecting enteral or parenteral nutrition support products.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Kris M. Mogensen, M.S., R.D.-A.P., LDN, CNSC</li> <li>• Anne M. Tucker, Pharm.D., BCNSP</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Differentiate broad categories of enteral formulas: polymeric, defined diet (elemental), disease specific.</li> <li>2. Identify appropriate enteral formulas for the critically ill population.</li> <li>3. Analyze enteral formula labels for key characteristics.</li> <li>4. Differentiate among available parenteral nutrition products.</li> <li>5. Compare advantages and disadvantages of standardized commercially-available parenteral nutrition products versus customized parenteral nutrition formulations.</li> <li>6. Select parenteral nutrition products based on relevant patient characteristics, availability, stability and compatibility.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-770-H01-P <b>CE Hours:</b> 1.5 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of</p>	<p><b>Title: Nutrition Support Ordering</b></p> <p><b>Description:</b> This activity discusses the safe and appropriate ordering process for enteral and parenteral nutrition products.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Phil Ayers, Pharm.D., BSNCP, FASHP</li> <li>• Kris M. Mogensen, M.S., R.D.-A.P., LDN, CNSC</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Discuss the key elements and functionality of the electronic health record for enteral and parenteral nutrition orders.</li> </ol>

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<p><i>1.5 AMA PRA Category 1 Credits™.</i> Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p>2. Review the appropriate ordering process for multi-chamber parenteral nutrition products. 3. Design a transition of care regimen for patients receiving enteral or parenteral nutrition.</p>
<p><b>ACPE#:</b> 0204-0000-19-771-H01-P</p> <p><b>CE Hours:</b> 1.75 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.75 AMA PRA Category 1 Credits™.</i> Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Product Preparation and Distribution</b> <b>Description:</b> This activity discusses recommendations and strategies for the safe and effective preparation and distribution of enteral and parenteral nutrition products.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Todd W. Canada, Pharm.D., BCNSP, BCCCP, FASHP, FTSHP, FASPEN</li> <li>• Anne M. Tucker, Pharm.D., BCNSP</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Compare the differences between preparing a closed- vs. open-system enteral nutrition product.</li> <li>2. Review safe practices for labeling enteral or parenteral nutrition products.</li> <li>3. Identify safe transition practices in patient care from hospital to home for enteral or parenteral nutrition products.</li> <li>4. Recommend strategies for handling parenteral nutrition product shortages.</li> <li>5. Appraise the parenteral nutrition compatibility issues for a given formulation.</li> <li>6. Differentiate between stability concerns for 2-in-1 vs. 3-in-1 parenteral nutrition formulations.</li> <li>7. Describe educational instruction techniques for home preparation of parenteral nutrition.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-772-H01-P</p> <p><b>CE Hours:</b> 1.25 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.25 AMA PRA Category 1 Credits™.</i> Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Nutrition Support Administration</b> <b>Description:</b> This activity describes appropriate procedures for safe administration of enteral and parenteral nutrition in adult patients.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Todd W. Canada, Pharm.D., BCNSP, BCCCP, FASHP, FTSHP, FASPEN</li> <li>• Patricia Worthington, R.N., M.S.N., CNSC</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Review critical safety measures for initiating parenteral or enteral nutrition.</li> <li>2. Identify measures aimed at preventing tubing misconnections involving enteral and parenteral nutrition systems.</li> <li>3. Discuss administration procedures for parenteral nutrition to prevent complications related to tubing and inline filter changes.</li> <li>4. Distinguish steps in managing 3-in-1 vs. 2-in-1 parenteral nutrition with separate intravenous lipid emulsion infusions.</li> <li>5. Outline safe medication administration practices with concurrent enteral or parenteral nutrition.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-773-H01-P</p> <p><b>CE Hours:</b> 3.5</p>	<p><b>Title: Nutrition Support Complications: Imbalances and Deficiencies</b></p>

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<p><b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>3.5 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Description:</b> This activity discusses methods for identifying and treating deficiencies and imbalances that could result from patients receiving nutrition support.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Jay M. Mirtallo, M.S., R.Ph, BCNSP, FASHP, FASPEN</li> <li>• Anne M. Tucker, Pharm.D., BCNSP</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Analyze patient information to determine type of acid-base disorders.</li> <li>2. Describe common etiologies of acid-base disorders and their impact on the nutrition prescription.</li> <li>3. Design recommendations for the prevention and management of acid-base disorders.</li> <li>4. Analyze patient information to determine type of fluid and electrolyte disorders.</li> <li>5. Describe common etiologies of fluid and electrolyte disorders and their impact on the nutrition prescription.</li> <li>6. Design recommendations for the prevention and management of fluid and electrolyte disorders.</li> <li>7. Identify nutrition support patients at risk for micronutrient deficiency.</li> <li>8. Develop a treatment plan for managing micronutrient deficiency.</li> <li>9. Review the clinical algorithm for controlling hyperglycemia in patients receiving nutrition support.</li> <li>10. Design a treatment plan for patients with hyperglycemia.</li> <li>11. Recognize essential fatty acid deficiency in parenteral nutrition patients.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-774-H01-P</p> <p><b>CE Hours:</b> 1.75</p> <p><b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.75 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Nutrition Support Complications: Other Complications</b></p> <p><b>Description:</b> This activity describes the identification and management of complications that could result from patients receiving nutrition support.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Ainsley Malone, M.S., RDN, L.D., CNSC, FAND, FASPEN</li> <li>• Jay M. Mirtallo, M.S., R.Ph, BCNSP, FASHP, FASPEN</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Identify gastrointestinal complications in patients receiving enteral nutrition.</li> <li>2. Recommend strategies for managing gastrointestinal complication in enterally fed patients.</li> <li>3. Assess risk of pulmonary aspiration in patients receiving enteral nutrition.</li> <li>4. Identify nutrition support patients at risk for refeeding syndrome.</li> <li>5. Propose adjustments in enteral and parenteral nutrition delivery to minimize refeeding syndrome occurrence.</li> <li>6. Discuss the impact of nutrition support on hepatic, renal and pulmonary function.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-775-H01-P</p>	<p><b>Title: Ongoing Monitoring of Nutrition Support</b></p>

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<p><b>CE Hours:</b> 1.0 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.0 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Description:</b> This activity describes the ongoing monitoring considerations for all patients receiving nutrition support therapy.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• David C. Evans, M.D., FACS</li> <li>• Patricia Worthington, R.N., M.S.N., CNSC</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Examine clinical conditions that affect tolerance of nutrition support.</li> <li>2. Identify disease states that may increase the risk for complications related to nutrition support.</li> <li>3. Design an appropriate monitoring plan for patients fed enterally and parenterally to minimize and prevent complications.</li> <li>4. Determine appropriate nutrition support interventions based on results of laboratory testing.</li> <li>5. Establish appropriate therapeutic goals for patients on nutrition support.</li> <li>6. Propose adjustments to a nutrition support prescription based on progress toward therapeutic goals.</li> </ol>
<p><b>ACPE#:</b> 0204-0000-19-776-H05-P</p> <p><b>CE Hours:</b> 1.0 <b>Activity Type:</b> Application-Based</p> <p>ASPEN is approved as a provider of continuing nursing education by the California Board of Nursing, provider number CEP3970.</p> <p>The American Society of Health-System Pharmacists designate this enduring material for a maximum of <i>1.0 AMA PRA Category 1 Credits™</i>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p>	<p><b>Title: Error Reporting</b></p> <p><b>Description:</b> This activity covers the significance of reporting errors associated with nutrition support and implementing appropriate error reporting processes to improve patient safety.</p> <p><b>Faculty:</b></p> <ul style="list-style-type: none"> <li>• Phil Ayers, Pharm.D., BSNCP, FASHP</li> <li>• Jay M. Mirtallo, M.S., R.Ph, BCNSP, FASHP, FASPEN</li> </ul> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Describe errors and potential errors that may occur with parenteral and enteral nutrition</li> <li>2. Examine error reporting methods to evaluate error trends that may occur with parenteral and enteral nutrition.</li> <li>3. Explain the importance of reporting errors associated with nutrition support.</li> <li>4. Select appropriate systems and processes for potential safety improvements.</li> </ol>

### Methods and CE Requirements

This internet enduring material activity consists of a combined total of 11 learning modules. Pharmacists, and nurses are eligible to receive a total of 19.25 hours of continuing education credit by completing all 11 modules within this certificate program.

Physicians are eligible to be awarded up to *19.25 AMA PRA Category 1 Credits™* by completing all 11 modules within this certificate program.

Continuing education credits must be claimed within 60 days of being earned.

All participants must complete each module and evaluation, as well as score 70% or higher on the assessment test to earn continuing education credit, and a score of 80% or higher in the final exam to earn the certificate. Follow

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the prompts online at the ASHP eLearning portal (<http://elearning.ashp.org>) to claim or be awarded credit within 60 days of completing the activity.

**Pharmacists only:** Your credits will be reported directly to CPE Monitor. To verify that you have completed the required steps and to ensure your credits hours have been reported to CPE Monitor, we encourage you to check your NABP eProfile account to validate your credits were transferred successfully before the ACPE 60-day deadline. After the 60 day deadline, ASHP will no longer be able to award credit.

### Faculty Information

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**Phil Ayers, Pharm.D., BSNCP, FASHP**

Chief, Clinical Pharmacy Services  
Mississippi Baptist Medical Center  
Clinical Associate Professor, Pharmacy Practice  
University of Mississippi  
Jackson, Mississippi

**Todd W. Canada, Pharm.D., BCNSP, BCCCP, FASHP, FTSHP, FASPEN**

Clinical Pharmacy Services Manager  
Nutrition Support Team Coordinator  
University of Texas MD Anderson Cancer Center  
Houston, Texas

**Jay M. Mirtallo, M.S., R.Ph, BCNSP, FASHP, FASPEN**

The Professor Emeritus  
The Ohio State University, College of Pharmacy  
Clinical Practice Specialist  
American Society for Parenteral and Enteral  
Nutrition  
Delaware, Ohio

**Kris M. Mogensen, M.S., R.D.-A.P., LDN, CNSC**

Team Leader Dietitian Specialist  
Brigham and Women's Hospital  
Boston, Massachusetts

**Carol J. Rollins, Pharm.D., M.S., RD, BCNSP, FASHP, FASPEN**

Clinical Professor  
University of Arizona College of Pharmacy  
Tucson, Arizona

**David C. Evans, M.D., FACS**

Trauma and Acute Care Surgeon  
OhioHealth Trauma and Surgical Services  
Columbus, Ohio

**Ainsley Malone, M.S., RDN, L.D., CNSC, FAND, FASPEN**

Clinical Practice Specialist  
The American Society for Parenteral and Enteral  
Nutrition (ASPEN)  
Nutrition Support Dietitian  
Mount Carmel Grove City  
Columbus, Ohio

**Anne M. Tucker, Pharm.D., BCNSP**

Clinical Pharmacy Specialist  
University of Texas MD Anderson Cancer Center  
Houston, Texas

**Patricia Worthington, R.N., M.S.N., CNSC**

Retired  
Previously: Nutrition Support Clinical Nurse  
Specialist  
Thomas Jefferson University Hospital  
Philadelphia, Pennsylvania

### Disclosures

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In accordance with the ACPE's and ACCME's Standards for Commercial Support, **anyone** in a position to control the content of an educational activity is required to disclose to the accredited provider their relevant financial relationships. In accordance with these Standards, all potential conflicts of interests have been resolved. *An individual has a **relevant financial relationship** if he or she (or spouse/domestic partner) has a financial relationship in any amount occurring in the last 12 months with a commercial interest whose products or services are discussed in the activity content over which the individual has control.*

As defined by ACCME, a **commercial interest** is any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. The Standards for Commercial Support do not consider providers of clinical service directly to patients to be commercial interests.

**In this activity:**

## CE Activity Announcement

- Phil Ayers, Fresenius Kabi: Speakers Bureau
- Todd W. Canada, Fresenius Kabi: Speakers Bureau
- David C. Evans, Abbott Nutrition: Grant Recipient; Coram CVS Home Infusion: Consultant; Fresenius Kabi: Consultant; Alcresta: Consultant; Lyric: Consultant
- Jay M. Mirtallo, Fresenius Kabi: Consultant, Speakers Bureau; Walters Kluwer: Consultant
- Kris M. Mogensen, Baxter: Speaker; Thrive Rx: Nutrition Advisory Board Member; Pfizer: Malnutrition Advisory Board Member
- All other planners, presenters, reviewers, and ASHP staff report no financial relationships relevant to this activity.

### **System Technical Requirements**

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Courses and learning activities are delivered via your Web browser and Acrobat PDF. Users should have a basic comfort level using a computer and navigating web sites.

View the [minimum technical and system requirements](#) for learning activities.