



CE Activity Announcement

Emergency Medicine Certificate Program

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 Member); \$545 (Nonmember); modules are not available for individual purchase.

Accreditation for Pharmacists



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

Target Audience

This activity is intended for pharmacists interested in expanding their knowledge and skills related to pharmacy practice in emergency medicine.

Activity Overview

The Emergency Medicine Certificate is designed for participants to increase the foundational knowledge and skills necessary to provide optimal patient care in the emergency department. The course presents key roles and responsibilities of pharmacists practicing in emergency medicine and further concentrates on the application of evidence-based pharmacologic and non-pharmacologic therapies for disease states frequently encountered in this practice setting. This self-guided program consists of 11 modules comprised of online home study activities. Upon completion of all the modules, participants should be proficient in the fundamental concepts necessary to provide care and recommend appropriate pharmacotherapy for patients presenting to the emergency department.

Learning Objectives and Schedule of Activities

CE Information	Title, Descriptions, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-757-H01-P</p> <p>CE Hours: 2</p> <p>Activity Type: Application</p>	<p>Title: Shock States</p> <p>Description: This activity provides an overview of the differing shock states and appropriate therapeutic regimens for each.</p> <p>Faculty:</p> <ul style="list-style-type: none"> • Christopher J. Edwards, Pharm.D., BCPS • Daniel H. Jarrell, Pharm.D., BCCCP, BCPS <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Differentiate among hypovolemic, distributive, obstructive, and cardiogenic shock. • Compare the distribution patterns of hypotonic, isotonic, and hypertonic fluids. • Describe the anticipated physiologic effects of commonly used vasopressors and inotropic agents. • Construct a therapeutic plan for patients suffering from common shock states. • Differentiate between sepsis and septic shock. • Describe goals of therapy for a patient with sepsis or septic shock. • Apply a treatment plan for a patient with sepsis or septic shock.



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Methods and CE Requirements

This internet enduring material activity consists of a combined total of 11 learning modules. Pharmacists are eligible to receive a total of 27.0 hours of continuing education credit 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 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

Kristin Bohnenberger, Pharm.D., DABAT
Clinical Assistant Professor
Ernest Mario School of Pharmacy at Rutgers, The State University of New Jersey, Piscataway, New Jersey;
Clinical Pharmacist – Emergency Medicine
Penn Medicine Princeton Medical Center
Plainsboro, New Jersey

Patrick J. Bridgeman, Jr. Pharm.D., BCPS
Clinical Assistant Professor
Ernest Mario School of Pharmacy, Piscataway, New Jersey; Robert Wood Johnson University Hospital,
New Brunswick, New Jersey

Megan Corrigan, Pharm.D., M.P.H., BCPS
Clinical Pharmacy Manager
Advocate Good Samaritan Hospital
Downers Grove, Illinois

Katelyn R. Dervay, Pharm.D., M.P.H., BCPS, FASHP
Pharmacotherapy Specialist - Emergency Medicine;
Director, PGY2 Emergency Medicine Residency
Tampa General Hospital
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Christopher J. Edwards, Pharm.D., BCPS
Assistant Professor
University of Arizona College of Pharmacy
Tucson, Arizona

Brett Faine, Pharm.D., M.S.
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Daniel H. Jarrell, Pharm.D., BCCCP, BCPS
Clinical Pharmacy Specialist - Emergency Medicine
Program Director - PGY2 Emergency Medicine
Banner - University Medical Center Tucson
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Disclosures

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:

- All planners, presenters, reviewers, and ASHP staff report no financial relationships relevant to this activity.

System Technical Requirements

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.