

**** Materials for this course will release 05/15/2020 ****

Cardiology Self-Assessment Program (CardSAP) Book 1: Critical Care Cardiology (Cert # L209203)

Teaser: This Self-Assessment Program series provides Cardiology pharmacists with pertinent therapeutic updates to enhance their practice skills and improve patient outcomes.

Tag: Certifications; Cardiology

ACPE Numbers: Various – see listing below

Pre-sale Date: 04/15/2020

Content Release Date: 05/15/2020

Product sale end date: 11/16/2020

Activity Type: Application-based

CE Credits: TBD hours (BPS and ACPE)

Activity Fee: \$75 (ASHP member); \$110 (non-member)

Accreditation for Pharmacists



The American College of Clinical Pharmacy and American Society of Health-System Pharmacists are accredited by the Accreditation Council for Pharmacy Education as providers of continuing pharmacy education.

Target Audience

The target audience for CardSAP 2020 Book 1 (Critical Care Cardiology) is board-certified cardiology pharmacy specialists caring for patients with or at risk of cardiovascular disease.

Activity Overview

This course is intended for board certified pharmacists in need of recertification credit and is designed based on the content outline developed by the Board of Pharmacy Specialties (BPS). The course consists of 4 learning modules (see table below) and provides up to TBD hours of continuing pharmacy education and/or recertification credit.

Learners will be required to review the content and complete the associated online assessments. The learner must be able to correctly answer the questions based upon their interpretation of the content, as well as “baseline specialty specific knowledge and/or easily retrievable information.” For purposes of this course, “baseline specialty specific knowledge and/or easily retrievable information” is defined as product labeling and well-established standards of practice in the specialty practice.

These activities are part of the ACCP and ASHP professional development program for BCCP recertification approved by the BPS.

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Recertification Credit*

Board certified pharmacists are eligible to receive up to TBD hours of recertification credit for completing this course. To earn recertification credit, learners must review the activity content and successfully complete the online assessments by the deadline. Only completed assessments will be eligible for credit; no partial or incomplete assessments will be processed. You are allowed only one attempt to successfully complete this assessment.

Learning Activity	ACPE Number	Credit Hours	*Assessment Pass Point
CardSAP 2020 Book 1: Critical Care Cardiology I	TBD	TBD	TBD
CardSAP 2020 Book 1: Critical Care Cardiology II	TBD	TBD	TBD
CardSAP 2020 Book 1: Critical Care Cardiology III	TBD	TBD	TBD
CardSAP 2020 Book 1: Critical Care Cardiology IV	TBD	TBD	TBD

LEARNING OBJECTIVES

CardSAP 2020 Book 1: Critical Care Cardiology I

ACPE Number: TBD

Perioperative Coronary Artery Bypass Grafting

- Develop a patient-specific therapeutic plan for antithrombotic therapy before coronary artery bypass grafting surgery
- Evaluate critical medications for initiation or discontinuation before coronary artery bypass grafting surgery
- Justify the importance of glycemic control during and immediately after coronary artery bypass grafting surgery
- Develop a patient-specific therapeutic plan for rectifying hemodynamic instability after coronary artery bypass grafting surgery
- Design a pharmacotherapy plan for the secondary prevention of ischemic events after coronary artery bypass grafting surgery

Perioperative Valve Surgery

- Evaluate patients for the pathophysiology of valvular heart disease.
- Design evidence-based management plans for perioperative hemodynamics, dysrhythmias, and vasoplegia in patients with valvular heart disease.
- Design patient-specific evidence-based antithrombotic regimens for patients with valvular heart disease.
- Evaluate patients undergoing valve replacement surgery for the unique management considerations of infective endocarditis.

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CardSAP 2020 Book 1: Critical Care Cardiology II

ACPE Number: TBD

Toxicology of Cardiovascular Drugs

- Develop a therapeutic plan using high-dose insulin/euglycemia in the management of patients with beta-blocker or calcium channel blocker toxicity.
- Evaluate the role of intravenous lipid emulsion in the management of patients with beta-blocker or calcium channel blocker toxicity.
- Justify the use of additional therapies in the management of patients with beta-blocker or calcium channel blocker toxicity.
- Design a therapeutic plan for patients presenting with chronic digoxin toxicity.
- Assess for the role of naloxone in clonidine toxicity.

Drug-induced Cardiovascular Disease

- Apply knowledge pharmacotherapy principles as well as pertinent clinical findings, and laboratory values to assist with identification of medication related causes of various cardiovascular disease states.
- Distinguish between the various etiologies, time of onset, dose, and reversibility of medication related cardiovascular diseases.
- Evaluate the contribution of various medications to the development of select cardiovascular diseases.

CardSAP 2020 Book 1: Critical Care Cardiology III

ACPE Number: TBD

Cardiogenic Shock

- Evaluate differences between the various etiologies of cardiogenic shock.
- Analyze pertinent laboratory values and hemodynamic parameters to distinguish the different classifications of cardiogenic shock and outcomes.
- Design a therapeutic regimen based on patient-specific parameters and cardiogenic shock classification.
- Distinguish the differences between the various types of temporary mechanical circulatory support.

Cardiac Transplantation

- Develop optimal pharmacotherapy in patients awaiting heart transplant (HT).
- Design an effective induction immunosuppression regimen for patients undergoing HT.
- Devise an optimal pharmacotherapeutic regimen for the intraoperative management of HT, including preservation solution and anesthesia induction.
- Evaluate the risk factors, pathophysiology, and management of patients with primary graft dysfunction.
- Design a post-HT pharmacotherapeutic strategy that encompasses all aspects of postoperative care.

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CardSAP 2020 Book 1: Critical Care Cardiology IV

ACPE Number: TBD

Interactive Case: Pharmacist Participation in Advanced Cardiac Life Support

- Analyze the role of advanced life support techniques, adjunctive care, and medication timing during cardiopulmonary resuscitation
- Apply knowledge of pharmacotherapy principles to achieve return of spontaneous circulation in special circumstances relating to cardiac arrest.
- Evaluate the roles and responsibilities of the pharmacist in ensuring the proper selection and administration of medications in the peri-cardiac arrest / medical emergency period
- Evaluate the common risk factors for QTc prolongation progressing to TdP and apply disease, drug and patient information to primary and secondary prevention strategies.

Recorded Webcast: Endocarditis/Pericarditis/Myocarditis

- Design an empiric antimicrobial regimen, as well as an antimicrobial regimen based on culture results, patients' valve type, susceptibilities, drug-disease interactions, and the patients' allergy history for a patient diagnosed with infective endocarditis.
- Develop a pharmacotherapy treatment plan for the management of acute and recurrent idiopathic pericarditis, including dosing, tapering, monitoring, and duration of therapy.
- Design an individualized treatment plan for a patient diagnosed with myocarditis.

Recorded Webcast: Alternative Routes of Drug Administration in Critical Care Patients

- Develop a plan for administering medications to patients without intravenous access.
- Assess the key elements for successful intranasal drug delivery
- Delineate the role and place in therapy of intranasally administered procedural sedation agents prior to emergent cardiovascular procedures
- Evaluate the benefits and risks of intraosseous route of administration for cardiovascular emergencies

Faculty Panel Chair

TBD

Series Editors

TBD

Reviewers

TBD

Authors

TBD

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Disclosures

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All planners, presenters, and reviewers of this session report no financial relationships relevant to this activity.

Methods and CE Requirements

Activities can be completed in any order. Each activity consists of audio, video, and/or PDFs and evaluations. Learners must review all content and complete the evaluations to receive continuing pharmacy education credit for each activity.

Follow the prompts to claim, view, or print the statement of credit within 60 days after completing the activity.

System Technical Requirements

Learning activities are delivered via your Web browser and Acrobat PDF. For all activities, you should have a basic comfort level using a computer and navigating web sites.

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

Development

These activities were developed by ACCP and ASHP.