

CardSAP 2020 Book 1 (*Critical Care Cardiology*)

Release date: May 15, 2020

BCCP test deadline: 11:59 p.m. (Central) on November 16, 2020.

ACPE test deadline: 11:59 p.m. (Central) on May 15, 2023.

Target Audience: The target audience for *Critical Care Cardiology* is board-certified cardiology pharmacy specialists caring for patients with or at risk of cardiovascular disease.

Module I (5.5 CPE hours): 0217-9999-20-014-H01-P

Chapter: Perioperative Coronary Artery Bypass Grafting

Learning Objectives

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

Chapter: Perioperative Valvular Surgery

Learning Objectives

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

Module II (5.0 CPE hours): 0217-9999-20-015-H01-P

Chapter: Toxicology of Cardiovascular Drugs

Learning Objectives

1. Develop a therapeutic plan using high-dose insulin/euglycemia in the management of patients with beta-blocker or calcium channel blocker toxicity.
2. Evaluate the role of intravenous lipid emulsion in the management of patients with beta-blocker or calcium channel blocker toxicity.

3. Justify the use of additional therapies in the management of patients with beta-blocker or calcium channel blocker toxicity.
4. Design a therapeutic plan for patients presenting with chronic digoxin toxicity.
5. Assess for the role of naloxone in clonidine toxicity.

Chapter: Drug-induced Cardiovascular Disease

Learning Objectives

1. 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.
2. Distinguish between the various etiologies, time of onset, dose, and reversibility of medication related cardiovascular diseases.
3. Evaluate the contribution of various medications to the development of select cardiovascular diseases.

Module III (5.0 CPE hours): 0217-9999-20-016-H01-P

Chapter: Cardiogenic Shock

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

Chapter: Heart Transplantation

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

Module IV (6.0 CPE hours): 0217-9999-20-017-H01-P

Interactive Case: Pharmacist Participation in Advanced Cardiac Life Support

Learning Objectives

1. Analyze the role of advanced life support techniques, adjunctive care, and medication timing during cardiopulmonary resuscitation
2. Apply knowledge of pharmacotherapy principles to achieve return of spontaneous circulation in special circumstances relating to cardiac arrest.
3. 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
4. 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

Learning Objectives

1. 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.
2. Develop a pharmacotherapy treatment plan for the management of acute and recurrent idiopathic pericarditis, including dosing, tapering, monitoring, and duration of therapy.
3. Design an individualized treatment plan for a patient diagnosed with myocarditis.

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

Learning Objectives

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