

**\*\* Materials for this course will release 11/24/2021\*\***

**\*\*The home study review course will be available February 2, 2022\*\***

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**Pharmacotherapy Specialty Review Course for Recertification, Core Therapeutic Modules + RECERT EXAMS Package  
(Cert # L219218)**

**Teaser:** This online course will help you earn BCPS recertification credit. With this course, get comprehensive, practical guidance, with a variety of complex cases, including references for further study.

**Tag:** Certifications; Pharmacotherapy

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**ACPE Numbers:** Various – see listing below

**Pre-Sale Date:** 10/27/2021

**Content Release Date:** 11/24/2021

**Expiration Date:** 11/22/2022

**Activity Type:** Application-based

**CE Credits:** 21 (BPS and ACPE)

**Activity Fee:** \$475 (ASHP member); \$675 (non-member)

**Activity Overview**

This course is intended for BCPS in need of recertification credit and is designed based on the content outline developed by the Board of Pharmacy Specialties (BPS) to provide an overview of recent standards and guidelines that specialists should be familiar with in practice. The course uses a case-based approach to discuss patient care issues. In this series, faculty will:

- Review pertinent clinical topics and practice skills
- List valuable resources for further self-study

This online course consists of 15 activities (see table below) and provides up to 21 contact hours of continuing pharmacy education credit and/or recertification credit.

**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**

These recertification activities are intended for board certified pharmacists seeking to update their knowledge and skills in pharmacotherapy pharmacy.

**Recertification Credit\***

Board certified pharmacists are eligible to receive up to 21 contact hours of recertification credit for completing this course. To earn recertification credit, learners must review the course 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.

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This course is not intended for those preparing to take the BPS Pharmacotherapy Pharmacy Specialty Examination for Certification. To prepare for the examination, please see courses here: <http://elearning.ashp.org/catalog/otherapy-review>

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

*\* Please note: Review Course for Recertification may only be completed for recertification credit up to two times, in nonconsecutive years, during the 7-year recertification cycle.*

**REVIEW COURSE:**

The review course for recertification consists of 10 activities (see table below). In each activity, faculty review clinical topics and practice skills using a case-based approach. This package is intended for board certified pharmacists in need of recertification credit; the activities were designed based on the content outline developed by the Board of Pharmacy Specialties (BPS).

Learning Activity	ACPE Number	Contact Hours	*Assessment Pass Point
Cardiovascular Disease: Primary Prevention Case	0204-0000-21-613-H01-P	1.5	TBD
Cardiovascular Disease: Secondary Prevention Case	0204-0000-21-614-H01-P	1.5	
Complex Heart Failure Case	0204-0000-21-615-H01-P	1.5	
Providing Safe and Effective Pharmacotherapy: Key Regulatory and Quality Approaches	0204-0000-21-616-H05-P	1.5	
	<b>Group 1 Assessment</b>	<b>6.0</b>	
Research Methods and Data Analysis / Evidence-based Practice and Resources	0204-0000-21-617-H04-P	2.5	TBD
Oncology and Supportive Care Case	0204-0000-21-618-H01-P	1.5	
Complex Nursing Home Patient Case	0204-0000-21-619-H01-P	1.5	
	<b>Group 2 Assessment</b>	<b>5.5</b>	
Complex HIV/AIDS Case	0204-0000-21-620-H02-P	1.5	TBD
Complex Pediatric Asthma Case	0204-0000-21-621-H01-P	1.5	
Complex Pneumonia Case	0204-0000-21-622-H01-P	1.5	
	<b>Group 3 Assessment</b>	<b>4.5</b>	

**Learning Objectives**

After participating in these CPE activities, learners should be able to:

**Cardiovascular Disease: Primary Prevention Case**

ACPE #: 0204-0000-21-613-L01-P

- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including hypertension, dyslipidemia, chronic kidney disease, diabetes, and obesity.

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- State the Centers for Disease Control and Prevention Advisory Committee on Immunization Practices recommendations for adult immunizations.
- Determine how to advise a patient on point-of-care testing to measure response to drug therapy.
- Discuss national benchmarking standards and implications to patient care.

#### **Cardiovascular Disease: Secondary Prevention Case**

ACPE #: 0204-0000-21-614-L01-P

- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including atrial fibrillation (AF), acute coronary syndromes (ACS), and gastroesophageal reflux disease (GERD).
- Develop a plan to address continuity of care issues.
- Formulate a medication therapy plan for smoking cessation.
- Determine how to manage drug – drug and drug-induced disease interactions in a patient with ischemic heart disease.
- Discuss quality of life in this population.
- Discuss national benchmarking standards and implications to patient care.

#### **Complex Heart Failure Case**

ACPE #: 0204-0000-21-615-L01-P

- Select optimal treatment and monitoring for a complex patient-case with multiple conditions, including heart failure, electrolyte disturbances in acute decompensated heart failure, diabetes, and a thyroid disorder.
- Discuss the medications that should be avoided in heart failure.
- Identify safety issues in this population.
- Define inadequate health literacy in this population.

#### **Providing Safe and Effective Pharmacotherapy: Key Regulatory and Quality Approaches**

ACPE #: 0204-0000-21-616-L05-P

- Explain the regulatory and accreditation requirements of a comprehensive medication use program.
- Describe methods to develop and maintain a medication use system.
- Discuss technology used to promote safe and effective medication use.
- Apply national regulations and evidence-based practices for medication safety and quality.
- Interpret results from pharmacotherapy-related quality improvement activities.

#### **Research Methods and Data Analysis / Evidence-based Practice and Resources**

ACPE #: 0204-0000-21-617-L04-P

- Analyze biomedical literature with regard to study methodology, statistical analysis, and significance.
- Explain the use of evidence-based treatment guidelines and protocols.
- Interpret the biomedical literature and its application to clinical practice.
- Identify sources of information to use to answer questions in one's practice, or from patients and healthcare professionals.
- Explain how to provide education regarding evidence-based practice to current and future health care professionals.

#### **Oncology and Supportive Care Case**

ACPE #: 0204-0000-21-618-L01-P

- Select the appropriate treatment and monitoring of a complex patient-case with multiple conditions, including breast cancer, febrile neutropenia, and pulmonary embolism.
  - Compare and contrast current breast cancer screening recommendations.
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- Develop a plan to manage pain and nausea/vomiting in a patient with cancer.
- Discuss safety issues in this population.
- Discuss adherence issues with oral chemotherapy regimens.

#### **Complex Nursing Home Patient Case**

ACPE #: 0204-0000-21-619-L01-P

- Select the appropriate treatment for a complex patient-case with multiple conditions, including stroke, depression/anxiety, dementia, chronic obstructive pulmonary disease (COPD) management, osteoarthritis, osteoporosis, and pain.
- Discuss complementary/alternative medicine and safety issues in this population.
- Discuss quality improvement initiatives and regulations in the nursing home setting.

#### **Complex HIV/AIDS Case**

ACPE #: 0204-0000-21-620-L02-P

- Select the appropriate treatment and monitoring of a complex patient-case with multiple conditions, including dyslipidemia, and hepatitis B.
- Identify and manage common drug interactions experienced by HIV-treated patients.
- Identify and manage common adverse drug reactions experienced by HIV-treated patients.
- Determine appropriate medication choices for the treatment and prevention of common opportunistic infections.
- Discuss quality of life issues in terms of medication therapy for HIV-infected patients.
- Identify and recommend appropriate resource organizations/groups to assist a specific patient.

#### **Complex Pediatric Asthma Case**

ACPE #: 0204-0000-21-621-L01-P

- Select optimal treatment and monitoring for a complex patient-case with acute asthma exacerbation, acute otitis media, and seasonal allergies.
- Apply methods for counseling a patient and/or caregiver in asthma self-management with comprehensive documentation of the patient counseling.
- Develop a plan for childhood vaccinations in a child who has been delayed in receiving them.
- Implement principles of shared-decision making and culturally effective care when using complementary/alternative medicine in a pediatric patient.

#### **Complex Pneumonia Case**

ACPE #: 0204-0000-21-622-L01-P

- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including pneumonia, acute renal insufficiency, sepsis, chronic obstructive pulmonary disease (COPD), and dehydration.
- Interpret clinical data, including lab, physical examination and vital signs.
- Determine and prioritize pneumonia-related treatment goals.
- Determine approaches to manage drug allergies and select next best drug therapy when primary drugs are precluded.
- Discuss approaches to limiting antimicrobial over use by stewarding antibiotic usage appropriately.
- Discuss safety issues in patients receiving treatment for pneumonia.

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**CORE THERAPEUTIC MODULES**

The Core Therapeutic Modules for Recertification Package consists of 5 activities (see table below). In each activity, faculty review clinical topics and practice skills using a case-based approach. This package is intended for board certified pharmacists in need of recertification credit; the activities were designed based on the content outline developed by the Board of Pharmacy Specialties (BPS).

ACPE Number	Learning Module	Contact Hours	*Assessment Pass Point
0204-0000-21-625-H01-P	Select Topics in Psychiatric Disorders	1	75%
0204-0000-21-626-H01-P	Select Topics in Rheumatology	1	
0204-0000-21-627-H01-P	Heart Failure	1	
0204-0000-21-628-H01-P	Selected Topics in Renal Disease	1	
0204-0000-21-629-H04-P	Patient Education and Health Literacy	1	

**Learning Objectives**

After participating in these CPE activities, learners should be able to:

**Select Topics in Psychiatric Disorders**

ACPE #: 0204-0000-21-625-H01-P

For patients with bipolar, schizophrenia, anxiety disorders, post-traumatic stress disorder, and/or substance abuse disorder:

- Interpret basic diagnostic factors, clinical presentation, and target symptoms of selected psychiatric disorders.
- Formulate the most appropriate treatment, monitoring, and follow-up plans based on patient-specific information and current guidelines.
- Evaluate drug-related problems and response to therapy.

**Select Topics in Rheumatology**

ACPE #: 0204-0000-21-626-H01-P

For patients with rheumatoid arthritis, osteoarthritis and gout:

- Formulate the most appropriate treatment and monitoring, based on drug-specific variables, patient-specific information and clinical practice guidelines.
- Evaluate drug-related problems and response to therapy.
- Recommend appropriate modifications of patient-specific treatment plans based on follow up assessment.

**Heart Failure**

ACPE #: 0204-0000-21-627-H01-P

- Interpret diagnostic and/or laboratory tests, vital signs and clinical presentation in patients with heart failure.
- Formulate the most appropriate treatment and monitoring plans, based patient-specific information and current guidelines for patients with heart failure.
- Recommend appropriate modifications of patient-specific treatment plans based on follow up assessment in patients with heart failure.

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### **Selected Topics in Renal Disease**

ACPE #: 0204-0000-21-628-H01-P

- For patients with acute kidney injury and chronic kidney disease determine the most appropriate treatment and monitoring based on drug characteristics, patient-specific factors, and current clinical practice guidelines.
- Manage drug dosing and drug-related complications in patients receiving renal replacement therapy.
- Identify appropriate modifications to the treatment plans based on follow-up assessment to optimize outcomes.

### **Patient Education and Health Literacy**

ACPE #: 0204-0000-21-629-H04-P

- Assess considerations for communicating pharmacotherapy plans to various patient populations, including pediatric patients and geriatric patients, using universal health literacy precautions.
- Evaluate methods for educating patients and caregivers on safe and appropriate use of medications and devices.

### **Faculty**

<https://www.ashp.org/Professional-Development/Board-Certification-Resources/Pharmacotherapy/Pharmacotherapy-Review-Course-Faculty>

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#### **Disclosures**

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- Patricia Kienle: Cardinal Health/Employee; CriticalPoint LLC/Instructor; USP/Volunteer; ASHP/Author
- Marc Scheetz: Merck/Grant to MWU; Abbvie/Consulting; Supertrans Medical/Consulting and Contracts; Nevakar/Consulting and Contracts; Allegra/Contract
- Jessica Farrell: Pfizer, speaker bureau; Abbvie, speaker bureau; Cumberland Pharmaceuticals, consultant

All other planners, presenters, reviewers, ASHP and others with an opportunity to control content 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 ASHP.