Pharmacotherapy Specialty Review Course for Recertification

Materials for this course will release 11/23/2022
***The home study review course will be available February 1, 2023***

Pharmacotherapy Specialty Review Course for Recertification, Core Therapeutic Modules + RECERT EXAMS Package (Cert # L229273)

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

ACPE Numbers: Various – see listing below
Pre-Sale Date: 10/26/2022
Content Release Date: 11/23/2022
Expiration Date: 11/21/2023
Activity Type: Application-based
CE Credits: 21 (BPS and ACPE) contact hours
Activity Fee: $475 (ASHP member); $675 (non-member)

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.

These activities were recorded during a live educational event on December 3-4, 2022 at the Midyear Clinical Meeting in Las Vegas. Learners who claimed credit for the live activities should not claim credit for these home study activities.

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

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.

Recertification Credit*
Board certified pharmacists are eligible to receive up to 15 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
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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.

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

<table>
<thead>
<tr>
<th>Learning Activity</th>
<th>ACPE Number</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular Disease: Primary Prevention Case</td>
<td>0204-0000-22-605-H01-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td>Cardiovascular Disease: Secondary Prevention Case</td>
<td>0204-0000-22-606-H01-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td>Complex Heart Failure Case</td>
<td>0204-0000-22-607-H01-P</td>
<td>1.5 ACPE</td>
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<tr>
<td>Providing Safe and Effective Pharmacotherapy: Key Regulatory and Quality Approaches</td>
<td>0204-0000-22-608-H05-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td><strong>Recertification Assessment Group 1 (TBD% passing score required)</strong></td>
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<td>6.0 BPS</td>
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<tr>
<td>Research Methods and Data Analysis</td>
<td>0204-0000-22-609-H04-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td>Research Methods and Data Analysis / Evidence-based Practice and Resources</td>
<td>0204-0000-22-647-L04-P</td>
<td>1.0 ACPE</td>
</tr>
<tr>
<td>Oncology and Supportive Care Case</td>
<td>0204-0000-22-610-H01-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td>Complex Nursing Home Patient Case</td>
<td>0204-0000-22-611-H01-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td><strong>Recertification Assessment Group 2 (TBD% passing score required)</strong></td>
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<td>5.5 BPS</td>
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<tr>
<td>Complex HIV/AIDS Case</td>
<td>0204-0000-22-612-H02-P</td>
<td>1.5 ACPE</td>
</tr>
<tr>
<td>Complex Pediatric Asthma Case</td>
<td>0204-0000-22-613-H01-P</td>
<td>1.75 ACPE</td>
</tr>
<tr>
<td>Complex Pneumonia Case</td>
<td>0204-0000-22-614-H01-P</td>
<td>1.25 ACPE</td>
</tr>
<tr>
<td><strong>Recertification Assessment Group 3 (TBD% passing score required)</strong></td>
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</tbody>
</table>

Learning Objectives
After participating in this CPE activity, learners should be able to:

**Cardiovascular Disease: Primary Prevention Case**
ACPE#: 0204-0000-22-605-H01-P

- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including hypertension, dyslipidemia, chronic kidney disease, diabetes, and obesity.
- 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#: 0204-0000-22-606-H01-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#: 0204-0000-22-607-H01-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#: 0204-0000-22-608-H05-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#: 0204-0000-22-609-H04-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#: 0204-0000-22-610-H01-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.  
- 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#: 0204-0000-22-611-H01-P
- Select the appropriate treatment for a complex patient-case with multiple conditions, including stroke, depression/anxiety, dementia, chronic obstructive pulmonary disease, osteoarthritis, osteoporosis, and pain.
- Discuss complementary/alternative medicine and safety issues in older adults.
- Discuss quality improvement initiatives and regulations in the nursing home setting.

Complex HIV/AIDS Case
ACPE#: 0204-0000-22-612-H02-P
- Select the appropriate treatment and monitoring of a complex patient-case with multiple conditions, including HIV infection, 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.
- Discuss recommendations for pre-exposure prophylaxis (PrEP).

Complex Pediatric Asthma Case
ACPE#: 0204-0000-22-613-H01-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#: 0204-0000-22-614-H01-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, 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 Review Package consists of 3 activities in which faculty review clinical topics and practice skills using a case-based approach. The activities are designed to assist the learner in identifying knowledge gaps in preparation for a pharmacy specialty board examination. In addition to a recorded presentation, each activity includes links to resources for further self-study and a practice test developed in the same format and rigor as the specialty exam.

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<tr>
<th>Learning Activity</th>
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<tbody>
<tr>
<td>Select Topics in Infectious Diseases: Part 1</td>
<td>0204-0000-22-615-H01-P</td>
<td>1.00 ACPE</td>
</tr>
<tr>
<td>Select Topics in Infectious Diseases: Part 2</td>
<td>0204-0000-22-616-H01-P</td>
<td>1.00 ACPE</td>
</tr>
<tr>
<td>Fluid, Electrolytes, and Nutrition</td>
<td>0204-0000-22-617-H01-P</td>
<td>1.00 ACPE</td>
</tr>
<tr>
<td>Select Topics in Neurologic Disorders</td>
<td>0204-0000-22-618-H01-P</td>
<td>1.00 ACPE</td>
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<tr>
<td>Diabetes</td>
<td>0204-0000-22-619-H01-P</td>
<td>1.00 ACPE</td>
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<tr>
<td>Recertification Assessment (TBD% passing score required)</td>
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<td>5.0 BPS</td>
</tr>
</tbody>
</table>

Learning Objectives

**Select Topics in Infectious Diseases: Part 1**
ACPE#: 0204-0000-22-615-H01-P
For the following infectious diseases: c.difficile infection, skin and soft tissue infections, upper respiratory tract infections, community acquired pneumonia
- Interpret laboratory and diagnostic tests.
- Formulate the most appropriate treatment, monitoring, and follow-up plans based on patient-specific information and current guidelines.
- Evaluate drug-related problems.

**Select Topics in Infectious Diseases: Part 2**
ACPE#: 0204-0000-22-616-H01-P
For the following infectious diseases: sexually transmitted diseases, urinary tract infections, endocarditis, meningitis
- Interpret laboratory and diagnostic tests.
- Formulate the most appropriate treatment, monitoring, and follow-up plans based on patient-specific information and current guidelines.
- Evaluate drug-related problems.

**Fluid, Electrolytes, and Nutrition**
ACPE#: 0204-0000-22-617-H01-P
- Interpret laboratory and diagnostic tests for fluid, electrolyte, and nutrition status.
- Recommend the most appropriate therapy and monitoring in patients with fluid, electrolyte, and nutritional disorders based on patient-specific information and current guidelines.
- Apply strategies to manage drug-related electrolyte interactions and nutrient interactions.
Select Topics in Neurologic Disorders
ACPE#: 0204-0000-22-618-H01-P

For patients with seizure disorders, Parkinson’s disease, headache and sleep disorders:

- Evaluate the risks and benefits of drug therapy considering other medication and patient specific factors.
- Formulate the most appropriate treatment, monitoring and follow-up plans based on patient-specific information and current guidelines.
- Evaluate drug-related problems.

Diabetes
ACPE#: 0204-0000-22-619-H01-P

- Interpret diagnostic and/or laboratory tests in patients with diabetes.
- Formulate the most appropriate treatment, monitoring, and follow-up plans based on patient-specific information and current guidelines.
- Evaluate drug-related problems.

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Disclosures
In accordance with our accreditor’s Standards of Integrity and Independence in Accredited Continuing Education, ASHP requires that all individuals in control of content disclose all financial relationships with ineligible companies. An individual has a relevant financial relationship if they have had a financial relationship with an ineligible company in any dollar amount in the past 24 months and the educational content that the individual controls is related to the business lines or products of the ineligible company.
An ineligible company is any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. The presence or absence of relevant financial relationships will be disclosed to the activity audience.

No one in control of the content of this activity has a relevant financial relationship (RFR) with an ineligible company.

Methods and CE Requirements
Activities can be completed in any order. Each activity consists of video, 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.