

**** Materials for this course will be release on 11/25/2020 ****

**Pharmacotherapy Review Course, Pract Exam, and Core Therapeutic Modules Package (No Recert Credit)
(Cert # L209309)**

Teaser: This online Specialty Review Course, Practice Exam, and Core Therapeutic Modules package will help you prepare for the Board of Pharmacy Specialty (BPS) examination. 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: 10/28/2020

Content Release Date: 11/25/2020

Expiration Date: 11/23/2021

Activity Type: Application-based

CE Credits: 32 hours (ACPE only)

Activity Fee: \$425 (ASHP member); \$625 (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.

The home study review course will be available February 3, 2021.

Target Audience

These activities are intended for pharmacists who are seeking to update their knowledge and skills commensurate with a board certification examination in the areas listed below.

Activity Overview

This online course provides a robust preparatory curriculum for the pharmacy professional preparing for the Board of Pharmacy Specialties (BPS) Pharmacotherapy Specialty Certification Examination. Designed based on the domains, tasks, and knowledge statements developed by the BPS for the certification examination, this course will help you prepare for the exam by identifying areas needed for in-depth review of pediatric pharmacy issues by:

- Reviewing pertinent clinical topics and practice skills
- Providing exam practice questions
- Listing valuable references for further study

This online course consists of 25 activities (see tables below) and provides up to 32 hours of continuing pharmacy education credit

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This course is **NOT** intended for those obtaining recertification credit. To earn recertification credit, please see courses here: <http://elearning.ashp.org/catalog/ptherapy-recert>.

These activities are part of the ASHP professional development program.

REVIEW COURSE

This course consists of 10 activities (see table below) and provides up to 16 hours of continuing pharmacy education credit. The review course includes case-based presentations for application to real-life scenarios, a practice exam along with correct answers, and links to the reference sources, and domains, tasks, and knowledge statements. To help you further prepare, this package includes a compilation of practice questions in the same format and rigor to help you prepare for the BPS Specialty Examination.

The home study review course will be available February 3, 2021.

Learning Module	ACPE Number	Credit Hours	ACPE Expiration Date
Cardiovascular Disease: Primary Prevention Case	0204-0000-21-932-H01-P	1.5	12/6/2023
Cardiovascular Disease: Secondary Prevention Case	0204-0000-21-933-H01-P	1.5	
Complex Heart Failure Case	0204-0000-21-934-H01-P	1.5	
Providing Safe and Effective Pharmacotherapy: Key Regulatory and Quality Approaches	0204-0000-21-935-H05-P	1.5	
Research Methods and Data Analysis / Evidence-based Practice and Resources	0204-0000-21-936-H04-P	2.5	
Oncology and Supportive Care Case	0204-0000-21-938-H01-P	1.5	
Complex Nursing Home Patient Case	0204-0000-21-939-H01-P	1.5	
Complex HIV Case	0204-0000-21-940-H02-P	1.5	
Complex Pediatric Asthma Case	0204-0000-21-941-H01-P	1.5	
Complex Pneumonia Case	0204-0000-21-942-H01-P	1.5	

Learning Objectives

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

Cardiovascular Disease: Primary Prevention Case

ACPE Number: 0204-0000-21-932-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.

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Cardiovascular Disease: Secondary Prevention Case

ACPE Number: 0204-0000-21-933-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 Number: 0204-0000-21-934-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 Number: 0204-0000-21-935-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 Number: 0204-0000-21-936-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 Number: 0204-0000-21-938-H01-P

- Select the appropriate treatment and monitoring for 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.

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Complex Nursing Home Patient Case

ACPE Number: 0204-0000-21-939-H01-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 complimentary/alternative medicine and safety issues in this population.
- Discuss quality improvement initiatives and regulations in the nursing home setting.

Complex HIV Case

ACPE Number: 0204-0000-21-940-H02-P

- Select the appropriate treatment and monitoring for 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 Number: 0204-0000-21-941-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 Number: 0204-0000-21-942-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 (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 Review Package consists of 15 activities (see table below) and provides up to 16 hours of continuing pharmacy education credit. 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.

Learning Module	ACPE Number	Credit Hours	ACPE Expiration Date
Select Topics in Infectious Diseases: Part 1	0204-0000-19-615-H01-P	1.00	11/19/22
Select Topics in Infectious Diseases: Part 2	0204-0000-19-616-H01-P	1.00	11/19/22
Statistics, Evidence-Based Medicine, and Clinical Trial Design	0204-0000-18-934-H04-P	2.00	05/16/21
Cardiac Arrhythmias and Advanced Cardiac Life Support	0204-0000-20-992-H01-P	1.00	11/24/23
Pharmacotherapy Considerations in the Management of Shock	0204-0000-20-993-H01-P	1.00	11/24/23
Fluid, Electrolytes, and Nutrition	0204-0000-19-602-H01-P	1.00	11/19/22
Select Topics in Men's Health	0204-0000-20-615-H01-P	1.00	11/24/23
Select Topics in Women's Health	0204-0000-20-616-H01-P	1.00	11/24/23
Select Topics in Neurologic Disorders	0204-0000-19-617-H01-P	1.00	11/19/22
Select Topics in Psychiatric Disorders	0204-0000-18-603-H01-P	1.00	08/06/21
Select Topics in Gastrointestinal Diseases	0204-0000-20-617-H01-P	1.00	11/24/23
Select Topics in Rheumatology	0204-0000-18-604-H01-P	1.00	08/06/21
Diabetes	0204-0000-19-618-H01-P	1.00	11/19/22
Heart Failure	0204-0000-18-923-H01-P	1.00	05/23/21
Selected Topics in Renal Disease	0204-0000-18-998-H01-P	1.00	11/14/21

Learning Objectives

Select Topics in Infectious Diseases: Part 1

ACPE number: 0204-0000-19-615-H01-P

For the following 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 and monitoring plans based on patient-specific information and current guidelines.
- Manage drug-related problems, evaluate response to therapy, and modify patient-specific treatment plans based on follow-up assessment.

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Select Topics in Infectious Diseases: Part 2

ACPE number: 0204-0000-19-616-H01-P

For the following diseases: sexually transmitted diseases, urinary tract infections, endocarditis, meningitis

- Interpret laboratory and diagnostic tests.
- Formulate the most appropriate treatment and monitoring plans based on patient-specific information and current guidelines.
- Manage drug-related problems, evaluate response to therapy, and modify patient-specific treatment plans based on follow-up assessment.

Statistics, Evidence-Based Medicine, and Clinical Trial Design

ACPE number: 0204-0000-18-934-H04-P

At the conclusion of this application-based educational activity, participants should be able to do the following:

- Determine quality of a study by examining study design, statistical analysis, quality of conclusions, and interpretation of graphs.
- Determine clinical and statistical significance.
- Determine if appropriate statistical tests have been used.
- Determine whether the study applies to a specified patient population.

Cardiac Arrhythmias and Advanced Cardiac Life Support

ACPE number: 0204-0000-20-992-H01-P

Learning Objectives:

- Interpret signs, symptoms and diagnostic tests for cardiac arrhythmias.
- Identify drug-related problems, including drug interactions and adverse effects, associated with pharmacotherapy of cardiac arrhythmias.
- Identify strategies to prevent drug-induced cardiac arrhythmias.
- Recommend therapy and monitoring for cardiac arrhythmias based on patient-specific information, current guidelines and Advanced Cardiac Life Support (ACLS) guided therapies.

Pharmacotherapy Considerations in the Management of Shock

ACPE number: 0204-0000-20-993-H01-P

Learning Objectives:

- Interpret diagnostic and/or laboratory tests, vital signs, and clinical presentation in order to differentiate types of shock (hypovolemic, distributive, cardiogenic).
- Compare and contrast the pharmacologic agents utilized in shock.
- Recommend the most appropriate therapy and monitoring based on patient-specific information and current guidelines for the treatment of shock.

Fluid, Electrolytes, and Nutrition

ACPE number: 0204-0000-19-602-H01-P

Interpret laboratory and diagnostic tests to evaluate fluid, electrolyte and nutrition status.

- Select the appropriate route for nutrition administration, and evaluate if nutrition needs are being met based on patient-specific information and current guidelines.
- Manage drug-related electrolyte interactions and nutrient interactions.
- Determine the most appropriate therapy and monitoring in patients with fluid, electrolyte, and nutritional disorders based on patient-specific information and current guidelines.

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Select Topics in Men's Health

ACPE number: 0204-0000-20-615-H01-P

Learning Objectives:

- Recommend appropriate treatment, monitoring and follow-up plans based on patient-specific information and current guidelines for patients with benign prostatic hyperplasia, erectile dysfunction and testosterone deficiency.
- Explain screening and treatment of osteoporosis in men.
- Evaluate the role of prostate cancer screening.
- Select appropriate treatment for patients with prostate cancer.

Select Topics in Women's Health

ACPE number: 0204-0000-20-616-H01-P

Learning Objectives:

- Describe pertinent sex-based differences in pharmacodynamics and pharmacokinetics that affect exposure and response to medications.
- Select health screenings based on patient-specific information for osteoporosis, breast cancer, endometrial cancer, and cervical cancer.
- Recommend appropriate treatment, monitoring and follow-up plans based on patient-specific information and current guidelines for osteoporosis and menopausal symptoms.
- Select appropriate contraceptive options, including emergency contraception, based on patient-specific information.
- Evaluate safety and efficacy of common therapies used during pregnancy and lactation.

Select Topics in Neurologic Disorders

ACPE number: 0204-0000-19-617-H01-P

For patients with seizure disorders, Parkinson's Disease, migraine 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.
- Manage drug-related problems and evaluate response to therapy.

Select Topics in Psychiatric Disorders

ACPE number: 0204-0000-18-603-H01-P

At the conclusion of this application-based educational activity, participants should be able to do the following:

- Assess benefits and risks of drug therapy considering other medication, and other patient-specific factors.
- Determine the most appropriate treatment and monitoring based on patient-specific information and the most current guidelines.
- Assess available information to identify drug-related problems and response to therapy.
- Identify appropriate modifications of patient-specific treatment plans based on follow up assessment.

Select Topics in Gastrointestinal Diseases

ACPE number: 0204-0000-20-617-H01-P

Learning Objectives:

- For patients with nausea, vomiting, inflammatory bowel disease, gastroesophageal reflux disease, or peptic ulcer disease:
 - Recommend 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 modifications of patient-specific treatment plans based on follow up assessment.

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Select Topics in Rheumatology

ACPE number: 0204-0000-18-604-H01-P

At the conclusion of this application-based educational activity, participants should be able to do the following:

- Recommend appropriate ambulatory treatment for a complex patient with rheumatoid arthritis, osteoarthritis or gout.
- Compare and contrast medications used to manage these conditions.
- Outline necessary monitoring and safety concerns for medications used to manage these conditions.

Diabetes

ACPE number: 0204-0000-19-618-H01-P

Learning Objectives:

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

Heart Failure

ACPE number: 0204-0000-18-923-H01-P

At the conclusion of this application-based educational activity, participants should be able to do the following:

- For patients with heart failure:
 - Interpret diagnostic findings and/or laboratory test results, vital signs, clinical presentation.
 - Determine the most appropriate treatment based on patient-specific information and the most current treatment guidelines.
 - Identify appropriate modifications of patient-specific treatment plans based on follow-up assessment.

Selected Topics in Renal Disease

ACPE number: 0204-0000-18-998-H01-P

At the conclusion of this application-based educational activity, participants should be able to do the following:

- For patients with acute kidney injury or 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.

REVIEW COURSE:

Faculty

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

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Disclosures

In accordance with the Accreditation Council for Continuing Medical Education's Standards for Commercial Support and the Accreditation Council for Pharmacy Education's Standards for Commercial Support, ASHP requires that all individuals

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Snehal Bhatt, Pharm.D., BCPS, Amgen, Stockholder; Portola Pharmaceuticals, Advisory Board; Janssen Pharmaceuticals, Inc., Speaker Bureau

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

Methods and CE Requirements

Activities which 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

Courses and 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.

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