

Materials for this course will release 04/27/2022

Geriatric Pharmacy Specialty Review Course for Recertification + RECERT EXAM (Cert # L229043)

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

Tag: Certifications; Geriatrics



ACPE Numbers: Various – see listing below

Pre-Sale Date: 04/13/2022

Content Release Date: 04/27/2022

Expiration Date: 04/11/2023

Activity Type: Application-based

CE Credits: 23.00 (BPS and ACPE) contact hours

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

Accreditation for Pharmacists



The American Society of Health-System Pharmacists (ASHP) and the American College of Clinical Pharmacy (ACCP) are 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 geriatric pharmacy.

These activities were recorded during a live educational event on March 3-5, 2022, at the ACCP/ASHP's 2022 Live Review & Recertification Courses, Henderson, Nevada. Learners who claimed credit for the live activities should not claim credit for these home study activities.

Activity Overview

This course is intended for BCGPs 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 12 activities (see table below) and provides up to 23 contact hours of continuing pharmacy education credit and/or recertification credit.

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Recertification Credit*

Board certified pharmacists are eligible to receive up to 23 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.

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

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

Learning Activity	ACPE Number	Contact Hours
Complex Case: Inpatient to Family Medicine Clinic	0204-9999-22-900-H01-P	2.00 ACPE
Complex Case: Ambulatory - Family Medicine Clinic	0204-9999-22-901-H01-P	2.00 ACPE
Complex Case: Ambulatory - Geriatric Clinic	0204-9999-22-902-H01-P	2.00 ACPE
Recertification Assessment Group 1 (TBD% passing score required)		6.0 BPS
Complex Case: Inpatient-Surgery to Skilled Nursing Facility	0204-9999-22-903-H01-P	2.00 ACPE
Complex Case: Skilled Nursing Care	0204-9999-22-904-H01-P	2.00 ACPE
Statistics, Evidence-based Medicine, and Research Design	0204-9999-22-905-H04-P	2.00 ACPE
Recertification Assessment Group 2 (TBD% passing score required)		6.0 BPS
Complex Case: Long-term Care	0204-9999-22-906-H01-P	2.00 ACPE
Geriatric Practice Administration	0204-9999-22-907-H04-P	2.00 ACPE
Complex Case: Assisted Living	0204-9999-22-908-H01-P	2.00 ACPE
Recertification Assessment Group 3 (TBD% passing score required)		6.0 BPS
Principles of Aging	0204-9999-22-909-H04-P	1.25 ACPE
Complex Case: Hospice/Palliative Care	0204-9999-22-910-H01-P	2.25 ACPE
Infectious Disease Considerations and Antimicrobial Stewardship Principles in Geriatric Patients and Care Settings	0204-9999-22-911-H04-P	1.50 ACPE
Recertification Assessment Group 4 (TBD% passing score required)		5.0 BPS

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Learning Objectives

At the end of the presentations, the pharmacist should be able to:

Complex Case: Inpatient to Family Medicine Clinic

ACPE #: 0204-9999-22-900-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Atrial fibrillation
 - Post-myocardial infarction
 - Heart failure
 - Hypertension
 - Hyperlipidemia
 - Peripheral vascular disease
 - Insomnia
 - Drug induced urinary retention
 - Dry eyes
 - C. difficile infection
- Identify potentially inappropriate medications (PIM) for older adults, as well as medications that contribute to geriatric syndromes or conditions (e.g., falls, cognitive impairment).

Complex Case: Ambulatory - Family Medicine Clinic

ACPE #: 0204-9999-22-901-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Atrial fibrillation, post-MI
 - Heart failure
 - Coronary artery disease
 - Hypothyroidism
 - Diabetes mellitus, new onset
 - Benign prostatic hyperplasia
 - Hypotension
 - Gastroesophageal reflux disease
- Evaluate financial/reimbursement issues (e.g., formularies, insurance coverage) when making therapeutic recommendations.
- Describe Explain steps to assist a patient with payment issues for medications, medication therapy management services, and medical equipment.
- Describe strategies to assess caregiver knowledge and expectations regarding advanced age and disease on health risks, needs, and treatment of health conditions.
- Evaluate the appropriateness of care plans and services based on older adults and caregivers' changes in age, health status, and function; assist caregivers in altering plans and actions as needed.
- Apply strategies for improvement of adherence in older adults, their caregivers and the interprofessional care team.
- Demonstrate Give examples of how to collaborate with older adults, their caregivers, and the healthcare team during care planning and implementation.
- Explain the need for continuity of treatment and communication across the spectrum of services and during transitions between care settings.
- Apply outcomes of investigations to optimize care of older adults.

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Complex Case: Ambulatory - Geriatric Clinic

ACPE #: 0204-9999-22-902-H01-P

- Interpret the results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Chronic obstructive pulmonary disease
 - Osteoarthritis
 - Depression
 - Urinary tract infection
 - Glaucoma
 - Herpes Zoster
- Evaluate strategies to promote evidence-based approaches for screening, immunizations, health promotion, and disease prevention for older adults.
- Assess a patient medication list, including prescription and over-the-counter medications, and complementary and alternative therapies.
- Identify the components of an interprofessional, comprehensive geriatric assessment and the roles individual disciplines play in conducting and interpreting a comprehensive geriatric assessment.
- Assess specific risks to older adult safety, including falls, abuse, physical/chemical restraints, and other environmental hazards.
- Explain the role of advanced directives and living wills, do not resuscitate, power of attorney, and other substitute decision-makers documents in medication use decisions.

Complex Case: Inpatient-Surgery to Skilled Nursing Facility

ACPE #: 0204-9999-22-903-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Delirium
 - Deep vein thrombosis prophylaxis
 - Pneumonia
 - Anxiety
 - Pain management (acute)
 - Fluid & electrolyte disorder
 - Falls
- Define Describe the continuum of care available to geriatric patients, such as community resources, home care, assisted living facilities, nursing facilities, sub-acute care facilities, hospice care, and hospitals.
- Explain the need for continuity of treatment and communication across the spectrum of services and during transitions between care settings.
- Identify potential hazards of hospitalization for older adults, including immobility, delirium, medication side effects, malnutrition, pressure ulcers, procedures, and hospital acquired infections.
- Assess specific risks to older adult safety, including falls, abuse, physical/chemical restraints, and other environmental hazards.
- Recognize Identify iatrogenic conditions (e.g., healthcare associated infections, falls, pressure ulcers, medication-induced).

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Complex Case: Skilled Nursing Care

ACPE #: 0204-9999-22-904-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Anemia
 - Anxiety
 - Deep vein thrombosis prophylaxis
 - Osteoporosis
 - Pain management
 - SIADH
 - Falls
 - Constipation
- Explain the need for continuity of treatment and communication across the spectrum of services and during transitions between care settings.
- Identify potential medication-related causes of declining physical and cognitive function
- Select methods to facilitate medication reconciliation during transitions of care.
- Summarize limitations of biomedical information for the care of older adults.
- Apply outcomes of investigations to optimize care of older adults.
- Develop strategies to prevent or resolve iatrogenic conditions.
- Recognize Identify elder abuse/neglect (e.g., physical, psychological, and financial).
- Identify resources to assist in prevention, reporting, and treatment of elder abuse/neglect.

Statistics, Evidence-based Medicine, and Research Design

ACPE #: 0204-9999-22-905-H04-P

Given an excerpt from a study:

- Evaluate quality and appropriateness of the excerpt, with specific attention to:
 - study design,
 - statistical analysis,
 - internal/external validity
 - source of bias/confounders
 - quality of conclusions,
 - interpretation of graphs.
- Explain why a statistical test is appropriate or not appropriate, based on the sample distribution, data type, and study design.
- Interpret clinical and statistical significance for results from commonly used statistical tests.
- Explain the strengths and limitations of different types of measures of central tendency (mean, median, and mode) and data spread (standard deviation, standard error of the mean, range, and interquartile range).
- Evaluate odds ratio, risk/incidence rate, relative risk, number needed to treat, number needed to harm, and other risk estimates.
- Assess whether the study applies to a specified patient population.

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Complex Case: Long-term Care

ACPE #: 0204-9999-22-906-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Alzheimer's with behaviors
 - Hypertension
 - T2DM
 - Geriatric syndromes – malnutrition/failure to thrive/weight loss
 - Renal dysfunction/CKD
- Summarize ethical issues that arise during therapy with individuals who have diminished decision-making capacity.
- Identify potential medication-related causes of declining physical and cognitive function.
- Identify clinical situations where life expectancy, functional status, patient preference or goals of care should override standard recommendations for screening/ treatment.
- Summarize care need priorities considering severity of illness, patient preference, quality of life, and time to benefit.
- Select interventions and behaviors that promote physical and mental health, nutrition, function, safety, social interactions, independence, and quality of life to older adults and their caregivers.
- Assess specific risks to older adult safety, including falls, abuse, physical/chemical restraints, and other environmental hazards.
- Apply the findings of research to the care of older adults.
- Evaluate the relevancy of clinical practice guidelines and standards of care for older adults.
- Describe the medication utilization process in the long-term care setting as it relates to the consultant pharmacist.

Geriatric Practice Administration

ACPE #: 0204-9999-22-907-H04-P

- Describe integration of evidence-based geriatric literature into institutional guidelines and processes.
- Develop a plan to monitor and evaluate compliance with, and impact of, policies and guidelines (e.g., institutional, evidence based).
- Select quality assurance methods, metrics, and improvement activities, including needs assessment techniques, aimed at enhancing the safety and effectiveness of medication-use processes in the geriatric settings.
- Explain regulatory/IRB requirements relative to conducting geriatric research.
- Describe regulatory requirements and organizational structure of long term care facilities as it relates to the consultant pharmacist.
- Design education programs/materials/tools for geriatric patient populations.
- Assess formulary management protocols in geriatric practice settings.
- Develop systems to identify risk factors and prevention for adverse drug events/medication incidents/errors in the geriatric patient population.
- Apply protocols for managing high-risk medications in the elderly older adults.
- Identify factors that enhance the education and training of geriatric pharmacists available in published documents from relevant professional societies (e.g., ASHP, ACCP, SCP, AGS etc.).

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Complex Case: Assisted Living

ACPE #: 0204-9999-22-908-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Urinary incontinence
 - Dysphagia
 - Stroke
 - Neuropathic pain
 - Gout
 - Seizure disorder
 - Substance abuse
- Evaluate self-care capacity, including medication self-administration.
- Identify signs of substance and medication misuse/abuse in older adults.
- Assess the impact of social behaviors, including use of tobacco, caffeine, alcohol, and illicit drugs.
- Identify need for referral of patients to other healthcare professionals.
- Apply verbal and nonverbal communication strategies to overcome potential sensory, language, and cognitive limitations in older adults.
- Evaluate improvement strategies for adherence in older adults, their caregivers and the interprofessional team.

Principles of Aging

ACPE #: 0204-9999-22-909-H04-P

- Summarize the spectrum of aging and physiological heterogeneity of older adults.
- Apply the knowledge of physiologic changes associated with aging to the clinical use of medications (e.g., pharmacokinetics and pharmacodynamics).
- Describe social and financial issues that impact therapeutic recommendations for geriatric patients.
- Select the appropriate treatment and monitoring for a patient with frailty.

Complex Case: Hospice/Palliative Care

ACPE #: 0204-9999-22-910-H01-P

- Interpret results of screening and assessments in the management of the geriatric patient.
- Select the appropriate treatment and monitoring for a complex patient-case with multiple conditions, including:
 - Parkinson's disease
 - Pressure ulcers
 - Dry mouth
 - Pain management
- Summarize care need priorities considering severity of illness, patient preference, quality of life, and time to benefit.
- Identify iatrogenic conditions (e.g., healthcare associated infections, falls, pressure ulcers, medication-induced conditions).
- Apply cultural competency concepts (e.g., ethnic/racial, religion, spiritual, age-related, language) and guidelines to healthcare decisions.
- Identify clinical situations where life expectancy, functional status, patient preference or goals of care should override standard recommendations for screening/ treatment.
- Identify need for referral of patients to other healthcare professionals.
- Explain the altered benefit-risk ratio of medications at the end of life.
- Discuss end of life issues as they relate to medication appropriateness.

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Infectious Disease Considerations and Antimicrobial Stewardship Principles in Geriatric Patients and Care Settings

ACPE #: 0204-9999-22-911-H04-P

- Describe regulations and government guidance statements calling for use of antimicrobial stewardship in geriatric care settings.
- Summarize the implications of infectious disease guidelines for use of antimicrobial agents in the geriatric patient population.
- Select appropriate antibiotic/antifungal antimicrobial therapy for a geriatric patient, taking into consideration infectious-diseases management principles and patient-specific variables.
- Recommend appropriate antimicrobial/antifungal-monitoring recommendations for a geriatric patient based on patient-specific variables and antimicrobial stewardship principles.
- Develop methods for monitoring trends and identifying opportunities for improvement in antimicrobial use within geriatric care settings.

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Field Testers

TBD

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.

As required by the Standards of Integrity and Independence in Accredited Continuing Education, all relevant financial relationships have been mitigated prior to the CPE 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 and ACCP.