

Activity Announcement

Pharmacy Competency Assessment Center

ACPE Activity Number: See below

Release Date: See below

Expiration Date: See below

Activity Type: See below

CE Credit: See below

Activity Fee: *Single User Subscriptions - \$375.00; Multi-User/Institutional Subscriptions - \$40.00/user (base price)*

Accreditation for Pharmacists and Pharmacy Technicians



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

Each individual activity module is intended for pharmacists and/or pharmacy technicians who wish to expand their knowledge and/or competency in a specific topic area.

Activity Overview

This flexible, online learning tool and resource is a collection of modules for pharmacists and technicians seeking to expand their knowledge and/or competency on a variety of topics relevant to health-system pharmacy practice. Topics include vancomycin dosing and monitoring, pain management and opioid stewardship, antimicrobial stewardship, nutritional support for pediatric and adult patients, basic pharmacy calculations, preparation of sterile and non-sterile products, management of controlled substances and much more. Each module includes a competency checklist that may be used or adapted by pharmacy managers to assess and document competency during orientation of new staff, when expanding staff roles, and to meet annual accreditation or regulatory requirements. The program provides ACPE continuing education for pharmacists and pharmacy technicians. The topics vary in level of difficulty and a mix of knowledge-based and application-based activities.

Schedule of Educational Activities

ACPE Activity Numbers	Title and Activity Type	CE Credit	Start / End Dates
0204-0000-19-041-H01-P	Neonatal and Pediatric Pharmacokinetics <i>(Knowledge-based)</i>	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-042-H01-P	Advanced Antimicrobial Stewardship <i>(Application-based)</i>	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-043-H04-P 0204-0000-19-043-H04-T	General Antimicrobial Stewardship <i>(Knowledge-based)</i>	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-044-H01-P	Medication Management in Renal and Hepatic Impairment <i>(Application-based)</i>	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-045-H01-P	Intravenous to Oral Therapy Conversion <i>(Knowledge-based)</i>	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-046-H04-P 0204-0000-19-046-H04-T	Confidentiality and Patient Rights <i>(Application-based)</i>	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-047-H07-P 0204-0000-19-047-H07-T	Compounding Aseptic Technique and Handwashing <i>(Knowledge-based)</i>	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-048-H01-P	General Psychiatry <i>(Application-based)</i>	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-049-H04-P	Emergency Preparedness <i>(Knowledge-based)</i>	0.75	Start: July 15, 2019 End: July 15, 2022

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ACPE Activity Numbers	Title and Activity Type	CE Credit	Start / End Dates
0204-0000-19-050-H04-P 0204-0000-19-050-H04-T	Controlled Substances Accountability (<i>Knowledge-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-051-H07-P 0204-0000-19-051-H07-T	Compounded Sterile Products (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-052-H05-P 0204-0000-19-052-H05-T	Medication Safety Basics (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-053-H04-P	Investigational Drug Management (<i>Knowledge-based</i>)	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-054-H04-P	Physical Assessment (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-055-H04-P	Adult Enteral Nutrition (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-056-H01-P	Psychiatry - Major Substance Use Disorders and Related Drug Therapies (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-057-H01-P	Obstetric Care (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-058-H04-P	Drug Information Resources, Literature, Evaluation, and Application to Practice (<i>Knowledge-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-059-H01-P	Vancomycin Dosing and Monitoring (<i>Application-based</i>)	1.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-061- H04-P	Concepts in Medication Administration: Intravenous Administration (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-062-H01-P	Anticoagulation Management (<i>Application-based</i>)	1.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-063-H07-P 0204-0000-19-063-H07-T	Compounding Hazardous Preparations USP <800> (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-064-H05-P 0204-0000-19-064-H05-T	Improving Medication Safety (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-065-H01-P	Pediatric and Neonatal Medication Management (<i>Knowledge-based</i>)	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-066-H01-P	Neonatal and Pediatric Nutrition Support Management (<i>Application-based</i>)	1.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-067-H07-P 0204-0000-19-067-H07-T	Compounding Nonsterile Preparations (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-068-H05-P	Concepts in Medication Administration: Safety, General Administration Procedures, and Documentation Requirements (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-069-H04-P	Concepts in Medication Administration: Procedures for Non-Invasive Medication Administration (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-070-H04-P	Concepts in Medication Administration: Routes Requiring Dermal Penetration (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-071-H01-P	Antifungal Agents (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022

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0204-0000-19-072-H04-P 0204-0000-19-072-H04-T	Essential Pharmacy Technician Competencies (<i>Knowledge-based</i>)	0.75	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-073-H04-P 0204-0000-19-073-H04-T	Drug Shortages Management (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-074-H04-P	Suicide Awareness and Prevention (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-075-H01-P	Older Adult Medication Management (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-076-H01-P	Adult Parenteral Nutrition (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-077-H01-P	Pain Management and Opioid Stewardship (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-078-H04-P	Pharmacist Professional Development (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-079-H04-P	Medication Area Inspections (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-080-H04-P 0204-0000-19-080-H04-T	Basic Pharmacy Calculations (<i>Application-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-081-H04-P 0204-0000-19-081-H04-T	Repackaging Medications (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-085-H03-P	Alphabet Soup of Accreditation and Regulatory Organizations (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-086-H01-P	Tubes, Lines, and Drains Basics (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-087-H04-P 0204-0000-19-087-H04-T	Overview of Specialty Pharmaceuticals and Specialty Pharmacies (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-088-H04-P 0204-0000-19-088-H04-T	Specialty Pharmacy Compliance: Payer, Manufacturer, and Accreditation Relationships (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-089-H04-P 0204-0000-19-089-H04-T	Specialty Pharmacy Operational Considerations (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-091-H01-P 0204-0000-19-091-H01-T	Infection Prevention (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-092-H04-P 0204-0000-19-092-H04-T	Medication Waste Disposal (<i>Knowledge-based</i>)	0.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-083-H01-P	Oncology Patient Management for Adults (<i>Knowledge-based</i>)	1.0	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-084-H01-P	Oncology Patient Management for Pediatrics (<i>Knowledge-based</i>)	1.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-082-H01-P	Hematology and Blood Products (<i>Application-based</i>)	1.5	Start: July 15, 2019 End: July 15, 2022
0204-0000-19-093-H04-P	Patient-Centered Communication and Education (<i>Knowledge-based</i>)	0.75	Start: Aug 15, 2019 End: Aug 15, 2022
0204-0000-19-090-H04-P 0204-0000-19-090-H04-T	Specialty Pharmacy Patient Care, Medication Access, and Educational Services (<i>Knowledge-based</i>)	1.0	Start: Aug 15, 2019 End: Aug 15, 2022
0204-0000-19-060-H01-P	Aminoglycoside Dosing and Management (<i>Application-based</i>)	1.0	Start: Aug 15, 2019 End: Aug 15, 2022

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ACPE Activity Numbers	Title and Activity Type	CE Credit	Start / End Dates
0204-0000-19-094-H04-P	Advanced Pharmacy Calculations (<i>Application-based</i>)	1.0	Start: Aug 28, 2019 End: Aug 28, 2022

Activities CE Information

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-041-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Neonatal and Pediatric Pharmacokinetics</p> <p>Description: This module offers the pharmacist a baseline knowledge of the physical and development dynamics relative to the pharmacokinetics (e.g. absorption, distribution, metabolism, and elimination) of medications in neonates and children. Understanding these processes will help support and ensure safe and effective medication dosing.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the pharmacokinetic differences in absorption, distribution, metabolism, and elimination in the pediatric and neonatal populations. 2. Recognize the rapid changes in body composition, and metabolic and elimination pathways that occur in the neonatal period. 3. Discuss the unique pharmacokinetic alterations observed in children with cystic fibrosis, critically ill neonates and children, and the obese child. <p>Faculty:</p> <ul style="list-style-type: none"> • LANEY BRENNAN, PharmD, BCPPS, Clinical Specialist Pulmonary, Children’s Hospital Colorado • EMMA L. ROSS, PharmD, BCPPS, Clinical Specialist NICU Children’s Hospital Colorado <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy, and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado
<p>ACPE #: 0204-0000-19-042-H01-P</p> <p>Credit Hours: 1.0</p>	<p>Title: Advanced Antimicrobial Stewardship</p> <p>Description: This module serves as a primer for pharmacists seeking to engage in advanced activities of antimicrobial stewardship programs.</p>

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<p>Activity Type: Application-based</p>	<p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Explain contemporary antimicrobial consumption metrics. 2. Compare methods to reduce the duration of empiric antimicrobial therapy. 3. Illustrate ways in which pharmacists can engage in antimicrobial dose optimization. 4. Apply strategies to reduce the impact of beta-lactam allergies on antimicrobial therapy selection and antimicrobial use outcomes. <p>Faculty:</p> <ul style="list-style-type: none"> • THOMAS J. DILWORTH, PharmD, Pharmacy Coordinator, Infectious Diseases, Program Director, PGY2 Infectious Diseases Residency, Aurora St. Luke’s Medical Center • RAMY H. ELSHABOURY, PharmD, BCPS-AQ ID, Clinical Pharmacy Manager, Infectious Diseases, Surgery & Transplant Pharmacy Services, Director, PGY2 Infectious Diseases Pharmacy Residency, Massachusetts General Hospital <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS-AQ ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-043-H04-P 0204-0000-19-043-H04-T</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Title: General Antimicrobial Stewardship</p> <p>Description: This module serves as a primer for pharmacists and technicians seeking to engage in general activities of antimicrobial stewardship programs.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the role of the pharmacist in antimicrobial stewardship. 2. List three considerations for both inpatient and ambulatory antimicrobial stewardship programs. 3. Describe ways pharmacists can use pre-prescription authorization and post-prescription review and feedback in antimicrobial stewardship. 4. Describe adverse effects associated with antimicrobial use. 5. Summarize common antimicrobial stewardship initiatives. 6. Identify program strategies to mitigate risks associated with antimicrobial use.

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	<p>Faculty:</p> <ul style="list-style-type: none"> • THOMAS J. DILWORTH, PharmD, Pharmacy Coordinator, Infectious Diseases, Program Director, PGY2 Infectious Diseases Residency, Aurora St. Luke’s Medical Center • RAMY H. ELSHABOURY, PharmD, BCPS-AQ ID, Clinical Pharmacy Manager, Infectious Diseases, Surgery & Transplant Pharmacy Services, Director, PGY2 Infectious Diseases Pharmacy Residency, Massachusetts General Hospital <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS-AQ ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-044-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Medication Management in Renal and Hepatic Impairment</p> <p>Description: This module serves as a primer for pharmacists seeking to engage in medication management of patients with renal and hepatic impairment.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the importance of appropriate medication dose adjustment in patients with renal and hepatic impairment. 2. Evaluate a patient’s degree of renal and hepatic impairment. 3. Select appropriate medication dosing based on degree of renal or hepatic impairment. 4. Apply appropriate medication dosing in patients receiving renal replacement therapy. <p>Faculty:</p> <ul style="list-style-type: none"> • ANDREW S. JARRELL, PharmD, BCPS, BCCCP, Clinical Pharmacy Specialist Surgical Intensive Care, The Johns Hopkins Hospital <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p>

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<p>ACPE #: 0204-0000-19-045-H01-P</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System <p>Title: Intravenous to Oral Therapy Conversion</p> <p>Description: This module serves as a primer for pharmacists seeking to engage in intravenous to oral therapy conversion programs.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe properties of medications best suited for intravenous-to-oral conversion. 2. Identify criteria that should be considered when assessing for appropriateness of an intravenous- to- oral conversion. 3. Recognize special considerations for medications when administering via the enteral route. <p>Faculty:</p> <ul style="list-style-type: none"> • LAURA A. HATFIELD, PharmD, BCPS, BCCCP, Clinical Pharmacy Specialist, Surgery The Johns Hopkins Hospital <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System, Baltimore, MD
<p>ACPE #: 0204-0000-19-046-H04-P 0204-0000-19-046-H04-T</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Confidentiality and Patient Rights</p> <p>Description: This module serves as a primer for pharmacists and technicians to enhance their understanding of patient rights and confidentiality requirements.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Explain the purpose of the Health Insurance Portability and Accountability Act (HIPAA). 2. Describe which information would be considered confidential by HIPAA standards and rules. 3. Discuss the actions HIPAA requires healthcare organizations to take to protect the confidentiality of patient information. 4. Given patient scenarios, identify the rights of patients receiving care, treatment, and services from healthcare organizations. 5. Describe reporting requirements when patient health information is disclosed.

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	<p>Faculty:</p> <ul style="list-style-type: none"> • DIANE M. McCLASKEY, RPh, BCPS, Assistant Director of Experiential Education, Clinical Assistant Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health, Salt Lake City, UT
<p>ACPE #: 0204-0000-19-047-H07-P 0204-0000-19-047-H07-T</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Compounding Aseptic Technique and Handwashing</p> <p>Description: This module serves as a primer for pharmacists and technicians seeking to engage in compounding sterile products.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Give two or more examples of critical sites during sterile compounding. 2. Describe the appropriate order of donning garb for non-hazardous sterile compounding. 3. Define the terms cleaning and disinfecting. 4. List the required practical assessments and frequencies for compounding personnel. <p>Faculty:</p> <ul style="list-style-type: none"> • KATIE GAUEN, PharmD, Medication Safety and Compliance Pharmacist, Northwestern Memorial Hospital, <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-048-H01-P</p>	<p>Title: General Psychiatry</p>

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<p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Description: This module serves as a primer for pharmacists providing services to patients being treated with medications for mental illness.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe how mental illness treatment is impacted by drug therapy. 2. Identify drug-related problems and challenges in treating patients with mental illness. 3. Evaluate drug therapy plans which account for various patient- and drug-related factors. 4. Recognize psychotropic adverse effects and the strategies to prevent or treat them. <p>Faculty:</p> <ul style="list-style-type: none"> • IMRAN QURESHI, PharmD, BCPP, Clinical Pharmacy Specialist • Psychiatry, The Johns Hopkins Hospital, Baltimore, MD <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System, Baltimore, MD
<p>ACPE #: 0204-0000-19-049-H04-P</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Emergency Preparedness</p> <p>Description: This module serves as a primer for pharmacists involved with emergency preparedness activities.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe a hazard vulnerability analysis. 2. Discuss why a hazard vulnerability analysis is needed in all hospitals. 3. List the four core elements provided by the Centers for Medicare & Medicaid Services for an effective emergency preparedness program. 4. List the roles of a pharmacist before, during, and after a disaster response. 5. Explain different disaster types and the presentation of patients from each disaster type. 6. Identify types of emergencies where a pharmacist may intervene with selection and dosing of medications. <p>Faculty:</p>

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	<ul style="list-style-type: none"> • MEGAN CORRIGAN, PharmD, MPH, BCPS, Clinical Pharmacy Manager Advocate Good Samaritan Hospital • PHILIPPE MENTLER, PharmD, BCPS, Consulting Director, Pharmacy Performance Services, Vizient Inc. <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS AQ-ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-050-H04-P 0204-0000-19-050-H04-T</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Controlled Substances Accountability</p> <p>Description: This module serves as a primer for pharmacists and pharmacy technicians involved with the management and accountability of controlled substances.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss controlled substance diversion as a national issue. 2. Recognize signs of controlled substance diversion in the healthcare setting. 3. Discuss the legal and regulatory requirements related to controlled substances. 4. Summarize organizational oversight and accountability for controlled substance surveillance. <p>Faculty:</p> <ul style="list-style-type: none"> • LAURA MELEIS, PharmD, MS, BCPS, Assistant Director of Pharmacy, Quality, Compliance, and Regulatory Affairs, Massachusetts General Hospital, Boston, MD • CHRISTOPHER R. FORTIER, PharmD, FASHP, Chief Pharmacy Officer, Massachusetts General Hospital, Boston, MA <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-051-H07-P 0204-0000-19-051-H07-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health <p>Title: Compounded Sterile Products</p> <p>Description: This module serves as a primer for pharmacists and pharmacy technicians responsible for compounding sterile products.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe engineering controls used in sterile compounding. 2. Discuss requirements for monitoring and cleaning of the sterile compounding facilities. 3. Recognize beyond-use dates based on type of preparation and vial container. <p>Faculty:</p> <ul style="list-style-type: none"> • LINDSEY B. AMERINE, PharmD, MS, BCPS, Director of Pharmacy, Associate Professor of Clinical Education, University of North Carolina Medical Center, UNC Eshelman School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-052-H05-P 0204-0000-19-052-H05-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Medication Safety Basics</p> <p>Description: This module serves as a primer on medication safety for pharmacists and pharmacy technicians.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss concepts and definitions used in health-system medication safety. 2. Describe the concept of an organizational culture of safety. 3. Identify medication error mitigation strategies. 4. List organizations focused on medication safety. <p>Faculty:</p> <ul style="list-style-type: none"> • JOHN B. HERTIG, PharmD, MS, CPPS, Associate Professor, Butler University College of Pharmacy and Health, Sciences

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> • DANIEL D. DEGNAN, PharmD, MS, CPPS, FASHP, Associate Director, Professional Program Laboratories, Purdue University College of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, The University of Utah Health
<p>ACPE #: 0204-0000-19-053-H04-P</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Investigational Drug Management</p> <p>Description: This module serves as a primer on investigational drug management for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the regulations, standards, and guidelines that govern clinical drug research in the United States. 2. Describe the pharmacist’s involvement in clinical trial support and conduct. 3. Identify key processes for investigational drug product management. <p>Faculty:</p> <ul style="list-style-type: none"> • MEGHAN TOLAN WAGNER, PharmD, MBA, Manager, Investigational Drug Services, Children’s National Medical Center <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System, Baltimore, MD
<p>ACPE #: 0204-0000-19-054-H04-P</p> <p>Credit Hours: 1.0</p>	<p>Title: Physical Assessment</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>Activity Type: Application-based</p>	<p>Description: This module serves as a primer for pharmacists who required to be competent in physical assessment skills.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the rationale for pharmacists to conduct physical assessment procedures and understand the findings. 2. Explain how to perform the four general physical assessment procedures of inspection, palpation, percussion, and auscultation. 3. Identify the correct steps in checking a patient’s vital signs including blood pressure, heart rate, respiratory rate, and temperature. 4. Distinguish between normal and abnormal values for vital signs measurements. 5. Identify potential causes for abnormal vital signs measurements. <p>Faculty:</p> <ul style="list-style-type: none"> • ERIKA L. KLEPPINGER, PharmD, BCPS, Associate Clinical Professor, Director of Skills Lab, Auburn University Harrison School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-055-H04-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Adult Enteral Nutrition</p> <p>Description: This module serves as a primer on adult enteral nutrition for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the role of enteral nutrition in the treatment of the undernourished patient. 2. Discuss the components of enteral formulations. 3. Apply the important concepts relating to the management and monitoring of patients receiving enteral nutrition. 4. Identify key safe practice issues related to enteral nutrition. <p>Faculty:</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-056-H01-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • KARRIE DERENSKI, PharmD, BCNSP, BCCCP, CNSC, Pharmacy Clinical Supervisor, Cox Health, Department of Pharmacy EDITORS • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
<p>ACPE #: 0204-0000-19-056-H01-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Psychiatry - Major Substance Use Disorders and Related Drug Therapies</p> <p>Description: This module serves as a primer on major substance use disorders and related drug therapies for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the role of substance use disorders in psychiatric illness. 2. Explain how to implement drug therapy into treatment of substance use disorder. 3. Describe medication options in the treatment of substance use disorders. 4. Discuss dosing, administration, and adverse effects of medications used in substance use disorders. <p>Faculty:</p> <ul style="list-style-type: none"> • R. LANEY OWINGS, PharmD, BCPS, BCPP, Clinical Pharmacist – Psychiatry, St. Joseph’s Hospital - Behavioral Health Center <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System
<p>ACPE #: 0204-0000-19-057-H01-P</p> <p>Credit Hours: 1.0</p>	<p>Title: Obstetric Care</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>Activity Type: Application-based</p>	<p>Description: This module serves as a primer on obstetrics care for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the physiological changes that occur during pregnancy and the impact medication pharmacokinetics. 2. Recommend appropriate preconception care for a woman trying to conceive. 3. Evaluate medication management for pregnancy-induced disease states, untreated chronic conditions during pregnancy, during labor and delivery, and for patients who are lactating. 4. Describe the maternal and fetal risks of untreated chronic conditions during pregnancy. <p>Faculty:</p> <ul style="list-style-type: none"> • ALICIA B. FORINASH, PharmD, FCCP, BCPS, BCACP, Professor, Pharmacy Practice, St. Louis College of Pharmacy, Division of Specialty Care Pharmacy • KYLIE N. BARNES, PharmD, BCPS, Clinical Assistant Professor, University of Missouri – Kansas City School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-058-H04-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Drug Information Resources, Literature, Evaluation, and Application to Practice</p> <p>Description: This module serves as a primer for pharmacists enhance their understanding of drug information resources, their evaluation and application to practice.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the differences between primary, secondary, and tertiary literature. 2. Describe a systematic search of drug information resources to answer a specific question. 3. Explain basic search strategies and features of PubMed. 4. List fundamental literature evaluation skills to assess a randomized, controlled trial.

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<p>Faculty:</p> <ul style="list-style-type: none"> • INDRANI KAR, PharmD, Clinical Pharmacy Specialist – Drug Policy/Formulary, University Hospitals • DAVID M. PETERSON, PharmD, BCPS, Drug Information Specialist • University of Utah Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health
<p>ACPE #: 0204-0000-19-059-H01-P</p> <p>Credit Hours: 1.5</p> <p>Activity Type: Application-based</p>	<p>Title: Vancomycin Dosing and Monitoring</p> <p>Description: This module serves as a primer for pharmacists who required to be competent in dosing and monitoring of vancomycin.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the pharmacokinetics and pharmacodynamics of vancomycin. 2. Discuss the pharmacodynamic target attainment goals for the treatment of Staphylococcus aureus infections with vancomycin. 3. Compare the benefits and limitations of traditional, area under the curve-based, and continuous infusion vancomycin dosing strategies. 4. Develop vancomycin dosing approaches for traditional, area under the curve, and continuous infusion strategies. <p>Faculty:</p> <ul style="list-style-type: none"> • TIMOTHY BERRY, PharmD, BCPS, Clinical Pharmacist, Cardiothoracic Surgery Intensive Care and Antimicrobial Stewardship, Saint Luke’s Health System in Kansas City, Missouri • NICHOLAS BENNETT, PharmD, BCPS, Manager, Antimicrobial Stewardship Program, Saint Luke’s Health System in Kansas City, Missouri <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-061-H04-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Imaging Services Truman Medical Centers in Kansas City, Missouri</p> <ul style="list-style-type: none"> • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS AQ-ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-062-H01-P</p>	<p>Title: Concepts in Medication Administration: Intravenous Administration</p> <p>Description: This module serves as a primer for pharmacists who are required to know the procedures and requirements for administering IV medications.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe general procedures for medication administration and documentation. 2. Discuss the differences between vascular access devices. 3. Recognize complications arising due to intravenous administration. 4. Discuss how to appropriately manage complications due to intravenous administration. 5. Describe the necessary steps to administer medications via the intravenous route. <p>Faculty:</p> <ul style="list-style-type: none"> • JEREMY P. HAMPTON, PharmD, BCPS, Clinical Associate Professor, University of Missouri – Kansas City School of Pharmacy, Emergency Medicine Clinical Specialist Truman Medical Centers <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy

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<p>Credit Hours: 1.5</p> <p>Activity Type: Application-based</p>	<p>Description: This module serves as a primer for pharmacists who required to be competent in dosing and monitoring of anticoagulants.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Compare and contrast the pharmacokinetic and pharmacodynamic properties of warfarin and direct oral anticoagulants. 2. Recommend warfarin starting dose based on international normalized ratio (INR) value, factors affecting INR, drug interactions, and warfarin indication. 3. Explain unfractionated heparin and low molecular weight heparin initial doses and monitoring parameters based on their protocols. 4. Discuss key features of the pharmacological, pharmacokinetic, and pharmacodynamic properties for fondaparinux, argatroban, and bivalirudin. 5. Recognize regulatory compliance requirements of the organization for oral and parenteral anticoagulation therapies. <p>Faculty:</p> <ul style="list-style-type: none"> • KAZUHIKO KIDO, PharmD, MS, BCCP, BCPS, Assistant Professor of Pharmacy Practice, South Dakota State University, College of Pharmacy and Allied Health Professions <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-063-H07-P 0204-0000-19-063-H07-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Compounding Hazardous Preparations USP <800></p> <p>Description: This module serves as a primer on procedures and processes related to compounding sterile hazardous preparations.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Define categories to consider when developing a hazardous drug list. 2. Discuss appropriate technique for compounding of hazardous drugs. 3. Explains proper personal protective equipment (PPE) for handling hazardous drugs.

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	<p>4. Describe processes to ensure correct cleaning/decontamination steps and handling of hazardous drug waste.</p> <p>Faculty:</p> <ul style="list-style-type: none"> • MARC A. EARL, PharmD, BCOP, Assistant Director Pharmacy, Cleveland Clinic, Cleveland, OH • ANTHONY M. BOYD, PharmD, BCPS, Pharmacy Manager- Oncology Infusion, Cleveland Clinic- Cleveland, OH <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
<p>ACPE #: 0204-0000-19-064-H05-P 0204-0000-19-064-H05-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Improving Medication Safety</p> <p>Description: This module serves as a primer on improving medication safety.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe methods used for detecting and reporting medication errors. 2. Explain continuous quality improvement. 3. Describe different methods used to improve medication safety. 4. Compare and contrast methods used for preventing medication errors. <p>Faculty:</p> <ul style="list-style-type: none"> • JOHN B. HERTIG, PharmD, MS, CPPS, Associate Professor, Butler University College of Pharmacy and Health, Sciences • DANIEL D. DEGNAN, PharmD, MS, CPPS, FASHP, Associate Director, Professional Program Laboratories, Purdue University College of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<p>Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy</p> <p>SECTION EDITOR</p> <ul style="list-style-type: none"> ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, The University of Utah Health
<p>ACPE #: 0204-0000-19-065-H01-P</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Pediatric and Neonatal Medication Management</p> <p>Description: This module serves as an introduction to considerations unique to pediatric and neonatal medication management.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> Discuss The Joint Commission medication management standards. Identify pediatric and neonatal considerations in medication management. Discuss tools available to help with implementing best practices in medication management. Discuss the importance of measuring safety and outcomes. <p>Faculty:</p> <ul style="list-style-type: none"> AMY L. POTTS, PharmD, BCPPS, Program Director, Quality, Safety and Education, Department of Pharmacy, Monroe Carell Jr. Children’s Hospital at Vanderbilt <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado
<p>ACPE #: 0204-0000-19-066-H0i-P</p> <p>Credit Hours: 1.5</p> <p>Activity Type: Application-based</p>	<p>Title: Neonatal and Pediatric Nutrition Support Management</p> <p>Description: This module serves as a primer for pharmacists who required to be competent in the principles of neonatal and pediatric parenteral nutrition.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> Identify neonatal and pediatric candidates for parenteral nutrition (PN) therapy.

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	<ol style="list-style-type: none"> 2. Describe age-based macro and micro- nutrient requirements of parenteral nutrition therapy. 3. Write an initial PN order, including the calculation of the fluid and caloric needs, for a neonatal and pediatric patient, 4. Describe strategies for advancing PN therapy to achieve goal fluids, calories and macronutrients and incorporate an appropriate lab monitoring plan for neonatal and pediatric patients receiving PN therapy. 5. Describe common complications associated with neonatal and pediatric PN therapy. <p>Faculty:</p> <ul style="list-style-type: none"> • JESSICA OTERO, PharmD, Clinical Pharmacist-Critical Care and Anticoagulation, Seattle Children's Hospital, Seattle, Washington <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy, and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado
<p>ACPE #: 0204-0000-19-067-H07-P 0204-0000-19-067-H07-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Compounding Nonsterile Preparations</p> <p>Description: This module serves as a primer on compounding nonsterile preparations, including compliance with USP<795> requirements.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss training and evaluation of personnel performing nonsterile compounding in hospital pharmacies. 2. Recognize important concepts related to personnel garbing and facility requirements to be used during nonsterile compounding. 3. Determine appropriate beyond-use dating and storage of nonsterile compounded preparations. 4. Discuss quality assurance, process controls, and record-keeping requirements for nonsterile compounding. <p>Faculty:</p> <ul style="list-style-type: none"> • SARAH BLEDSOE, PharmD, CPHIMS, Assistant Director of Pharmacy, Children’s Mercy in Kansas City, Missouri <p>EDITORS</p>

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<p>ACPE #: 0204-0000-19-068-H05-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-068-H05-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Concepts in Medication Administration: Safety, General Administration Procedures, and Documentation Requirements</p> <p>Description: This module serves as a primer for pharmacists who are required to know the general procedures and requirements for the safe administration of medications.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the most common errors related to the medication administration process. 2. Explain safety practice recommendations from the Centers for Medicare & Medicaid Services and the Institute for Safe Medication Practices for reducing errors and harm associated with administered medications. 3. Describe general procedures for medication administration and documentation. <p>Faculty:</p> <ul style="list-style-type: none"> • JEREMY P. HAMPTON, PharmD, BCPS, Clinical Associate Professor University of Missouri - Kansas City School of Pharmacy, Emergency Medicine Clinical Specialist Truman Medical Centers in Kansas City, Missouri <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-069-H04-P</p> <p>Credit Hours: 0.5</p>	<p>Title: Concepts in Medication Administration: Procedures for Non-Invasive Medication Administration</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
Activity Type: Knowledge-based	<p>Description: This module serves as a primer for pharmacists who are required to know the general procedures and requirements for oral and topical administration of medications.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe general procedures for medication administration and documentation. 2. Identify appropriate supplies to gather prior to administering medications. 3. Describe necessary steps to administer various enteral and topical dosage forms. <p>Faculty:</p> <ul style="list-style-type: none"> • JEREMY P. HAMPTON, PharmD, BCPS, Clinical Associate Professor University of Missouri - Kansas City School of Pharmacy, Emergency Medicine Clinical Specialist Truman Medical Centers in Kansas City, Missouri <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
ACPE #: 0204-0000-19-070-H04-P Credit Hours: 0.5 Activity Type: Knowledge-based	<p>Title: Concepts in Medication Administration: Routes Requiring Dermal Penetration</p> <p>Description: This module serves as a primer for pharmacists who are required to know the general procedures and requirements for the administration of medications requiring dermal penetration.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Identify appropriate supplies to gather prior to administering medications. 2. Determine the most appropriate site(s) for intramuscular administration. 3. Describe necessary steps to administer medications via routes requiring dermal penetration. <p>Faculty:</p> <ul style="list-style-type: none"> • JEREMY P. HAMPTON, PharmD, BCPS, Clinical Associate Professor University of Missouri - Kansas City School of

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-071-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Pharmacy, Emergency Medicine Clinical Specialist Truman Medical Centers in Kansas City, Missouri</p> <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-072-H04-P</p>	<p>Title: Antifungal Agents</p> <p>Description: This module serves as a primer for pharmacists who required to be competent in the principles of medication management of antifungal therapy.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Assess the spectrum of activity of each available class of antifungal agent. 2. Summarize the pharmacokinetic and pharmacodynamic parameters of the antifungals. 3. Identify clinically relevant drug-drug interactions associated with antifungal use. 4. Explain the need for therapeutic drug monitoring for various antifungal agents. <p>Faculty:</p> <ul style="list-style-type: none"> • KATE DZINTARS, PharmD, BCPS, AQ-ID, Clinical Pharmacy Specialist, Infectious Diseases & Antimicrobial Stewardship, The Johns Hopkins Hospital, Baltimore, MD <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • TODD NESBIT, PharmD, MBA, FASHP, Director, Pharmacy Patient Care Services, The Johns Hopkins Health System

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>0204-0000-19-072-H04-T</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<p>Description: This module describes essential functions of a health-system pharmacy technicians and their role in compounding and the medication distribution process.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. List entry-level and advanced functions of a pharmacy technician in a health-system pharmacy 2. Describe how to prepare and compound unit dose preparations for non-sterile and sterile products 3. Discuss the medication distribution process including medication disposal and delivery, controlled substances, emergency code box/crash cart preparation and inventory management 4. Explain how communication with internal and external customers supports the pharmacy. <p>Faculty:</p> <ul style="list-style-type: none"> • SAMUEL V. CALABRESE, MBA, RPh, FASHP, Associate Chief Pharmacy Officer , Cleveland Clinic, Cleveland Ohio • ALLISON R. RIFFLE, PharmD, MS, Assistant Director of Pharmacy, Cleveland Clinic Main Campus • JAMES BLACKMER, PharmD, MPA, <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy, and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado
<p>ACPE #: 0204-0000-19-073-H04-P 0204-0000-19-073-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Drug Shortages Management</p> <p>Description: This module serves as a primer on the factors leading to and management of drug shortages.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Define drug shortage. 2. Identify factors contributing to drug shortages. 3. Describe important steps in managing drug shortages. <p>Faculty:</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> • MEGAN A. HOLSOPPLE, PharmD, BCPS, Coordinator, Center for Medication Utilization, PGY2 Drug Information Program Director, Froedtert & the Medical College of Wisconsin, Milwaukee, WI <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health
<p>ACPE #: 0204-0000-19-074-H04-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Suicide Awareness and Prevention</p> <p>Description: This module serves as an introduction to the pharmacist's role in suicide awareness and prevention.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Define the pharmacist's role in suicide awareness and prevention. 2. Recognize behaviors or warning signs of suicidal ideation including cues and symptoms. 3. Identify suicide risk factors and protective factors. 4. Describe best practices for suicide risk mitigation and prevention. 5. List potentially lethal prescription and over the counter medications associated with intentional overdose. <p>Faculty:</p> <ul style="list-style-type: none"> • TANYA J. FABIAN, PharmD, PhD, BCPP, Director of Pharmacy Research and Pharmacy Services, UPMC Western Psychiatric Hospital, Associate Professor, University of Pittsburgh School of Pharmacy • MARISSA CULLEN, PharmD, BCPP, Clinical Pharmacist, UPMC Western Psychiatric Hospital • AMANDA S. KORENOSKI, PharmD, MHA, BCCCP, Managing Director, Pittsburgh Poison Center, Assistant Professor, University of Pittsburgh School of Pharmacy, Department of Pharmacy and Therapeutics <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-075-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Older Adult Medication Management</p> <p>Description: This module serves as a primer for pharmacists who are required to be competent in the principles of medication management in older adults.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> Assess an older adult's health and medication regimen using a patient-centered approach. Apply patient-specific factors including organ function, personal goals, functional limitations, health-related risks, and adherence barriers when developing therapeutic plans for older adults. Develop a specific plan for needed medication changes, including deprescribing, with explicit monitoring throughout initiation, discontinuation, or taper. <p>Faculty:</p> <ul style="list-style-type: none"> MICHELLE FRITSCH, PharmD, BCGP, BCACP, CEO Retirement Wellness Strategies, Meds MASH, LLC JAMIE RICKARDS CRONQUIST, PharmD, MBA, CPP, BCPS, BCGP, Clinical Pharmacist, Geriatrics Mission Health System, CarePartners PACE (Program of All-inclusive Care for the Elderly) TASHA WOODALL, PharmD, BCGP, CPP, Associate Director of Pharmacotherapy, Geriatrics, Mountain Area Health Education Center, Assistant Professor of Clinical Education, UNC Eshelman School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-076-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Adult Parenteral Nutrition</p> <p>Description: This module serves as a primer for pharmacists who required to be competent in the principles of adult parenteral nutrition.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the role of enteral nutrition in the treatment of the undernourished patient. 2. Discuss the components of enteral formulations. 3. Apply the important concepts relating to the management and monitoring of patients receiving enteral nutrition. 4. Identify key safe practice issues related to enteral nutrition. <p>Faculty:</p> <ul style="list-style-type: none"> • KARRIE DERENSKI, PharmD, BCNSP, BCCCP, CNSC, Pharmacy & Metabolic Support Supervisor, Residency Director PGY2 Critical Care, Cox Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
<p>ACPE #: 0204-0000-19-077-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Pain Management and Opioid Stewardship</p> <p>Description: This module serves as a primer for pharmacists on pain management and opioid stewardship.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the pain and opioid epidemic. 2. Demonstrate the use of pain and opioid risk assessment tools. 3. Identify nonpharmacotherapy treatment modalities for pain management. 4. Evaluate the appropriateness of pain pharmacotherapy relative to type of pain and risk for adverse effects. 5. Summarize the evidence for pharmacist integration into pain and opioid stewardship programs. <p>Faculty:</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-078-H04-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • JEREMIAH C. McKELVEY, PharmD, Academic Detailer/Clinical Pharmacy Specialist, VA Northern California Health Care System • WILLIAM D. GERSCH, PharmD, BCPS, Clinical Pharmacy Specialist – Pain Management, Kaiser Permanente Colorado • TERRI L. JORGENSON, RPH, BCPS, National Program Manager, Pharmacy Benefits Management, Clinical Pharmacy Practice Office, Department of Veterans Affairs (VA), Washington DC <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-078-H04-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Pharmacist Professional Development</p> <p>Description: This module serves as an introduction to importance of professional development and competency assessment for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. List different types of pharmacy clinical care models. 2. Explain the rationale for minimum competencies to provide optimal care for patients across the continuum. 3. Discuss competency needs in pharmacy practice that are required for meeting individual care needs. 4. Identify skill sets needed to provide clinical care in specific settings. <p>Faculty:</p> <ul style="list-style-type: none"> • M. JAY BROWN, PharmD, BCOP, Sr. Director, Outpatient Pharmacy Services, Residency Program Director, Novant Health Presbyterian Medical Center, PGY2 Hematology/Oncology Program, Novant Health • ADAM PEELE, PharmD, MHA, BCPS, BCOP, Director, Oncology Pharmacy Services, PGY2 Oncology Pharmacy Residency Director, Cone Health, Greensboro, NC <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-079-H04-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Imaging Services Truman Medical Centers in Kansas City, Missouri</p> <ul style="list-style-type: none"> • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
<p>ACPE #: 0204-0000-19-080-H04-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Medication Area Inspections</p> <p>Description: This module serves as a primer on medication area inspections, including common drug use control measures.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the pharmacist’s responsibility for drug-use control in medication areas. 2. Describe four areas of focus for medication area inspections. 3. Recognize the importance of ongoing organizational assessments to maintain medication area quality and safety. 4. Describe unique medication area inspection requirements, including manual floor stock, automated dispensing cabinets, crash carts, specialty boxes, and patients’ own medications. <p>Faculty:</p> <ul style="list-style-type: none"> • THOMAS E. KIRSCHLING, PharmD, MS, MSL, CHC, FASHP, Pharmacy Compliance Officer and Director of Inpatient Pharmacy Services, Maxor National Pharmacy Services in Golden, Colorado <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • NOELLE R.M. CHAPMAN, PharmD, BCPS, FASHP, Vice President of Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-080-H04-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Basic Pharmacy Calculations</p> <p>Description: This module serves as a primer on basic pharmaceutical calculations.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe strategies to minimize errors in calculations

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	<ol style="list-style-type: none"> 2. Define common systems of measurement and perform appropriate conversions between systems. 3. Calculate the amount of ingredient(s) needed to prepare a medication. 4. Solve dosage calculations such as measurement conversion, fractions, decimals, concentrations, ratios, proportion and percentage analysis. <p>Faculty:</p> <ul style="list-style-type: none"> • KATRINA K. HARPER, PharmD, MBA, BCPS, DPLA, Sr. Clinical Manager, Center for Pharmacy Practice Excellence, Vizient • DENISE M. FRANK, BPharm, RPh, FACA, Frank Consulting, LLC • KERSTEN WEBER TATARELIS, PharmD, BCPS-AQ ID, Vice President, Pharmacy Operations, Advocate Aurora Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS-AQ ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-081-H04-P 0204-0000-19-081-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Repackaging Medications</p> <p>Description: This module serves as a primer on repackaging medications.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Explain the safety and efficiency benefits of a unit-dose system. 2. Select the appropriate supplies to repackage medications. 3. List the labeling requirements for repackaged medications. 4. Describe the quality assurance and record-keeping requirements for repackaged medications. <p>Faculty:</p> <ul style="list-style-type: none"> • PATRICIA CUTTING-BOOKER, PharmD, BCPPS, Medication Safety Specialist, Quality and Patient Safety, Children’s Hospital Colorado <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
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<p>ACPE #: 0204-0000-19-085-H03-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Alphabet Soup of Accreditation and Regulatory Organizations</p> <p>Description: This module serves as primer on accreditation and regulatory organizations for pharmacists.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe why accreditation bodies and regulatory practices are required for pharmacy practice. 2. Compare and contrast the various federal agencies under the Department of Health and Human Services. 3. Discuss regulations to follow when conducting human subjects research. <p>Faculty:</p> <ul style="list-style-type: none"> • ELYSE A. MacDONALD, PharmD, MS, BCPS, Drug Information Specialist, University of Utah Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health
<p>ACPE #: 0204-0000-19-086-H01-P</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Tubes, Lines, and Drains Basics</p> <p>Description: This module serves as an introduction to lines, tubes and drains and relevance to medication administration.</p> <p>Learning Objectives:</p>

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-087-H04-P 0204-0000-19-087-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<ol style="list-style-type: none"> 1. Describe the basic functions of lines, tubes, and drains used during patient care. 2. List safety considerations associated with lines, tubes, and drains. 3. Given a patient case, recommend safe practices for maintaining access to these devices. 4. Given a patient case, provide recommendations for safely administering pharmacologic therapies via these access devices. <p>Faculty:</p> <ul style="list-style-type: none"> • KIMBERLY J. TERRY, PharmD, BCPS, BCCCP, Surgical and Cardiothoracic ICU Clinical Pharmacist, University of Utah Health • COLGAN T. SLOAN, PharmD, BCPS, Emergency Medicine Clinical Pharmacist, University of Utah Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health
<p>ACPE #: 0204-0000-19-087-H04-P 0204-0000-19-087-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Overview of Specialty Pharmaceuticals and Specialty Pharmacies</p> <p>Description: This module serves as a primer on specialty pharmacy services.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. List the key defining factor(s) for medications to be considered “specialty.” 2. Identify the key trends that are affecting the specialty pharmacy marketplace. 3. Describe unique considerations and trends of specialty product distribution. 4. Discuss the business case fundamentals to initiate specialty pharmacy services.

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<p>Faculty:</p> <ul style="list-style-type: none"> ANDY PULVERMACHER, PharmD, Principal Consultant, Blue Fin Group <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> SCOTT SAVAGE, PharmD, MS, Executive Vice Dean/Chief Operating Officer, Associate Professor of Clinical Education, UNC Eshelman School of Pharmacy
<p>ACPE #: 0204-0000-19-088-H04-P 0204-0000-19-088-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Specialty Pharmacy Compliance: Payer, Manufacturer, and Accreditation Relationships</p> <p>Description: This module serves as a primer on specialty pharmacy compliance, including payer, manufacturer, and accreditation considerations.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> Describe the benefit of seeking accreditation through a third party. Recognize core elements necessary to achieve accreditation of your specialty pharmacy. Compare the services of a health system-based specialty pharmacy to others in the market. Identify or list strategies to gain access to narrow networks. <p>Faculty:</p> <ul style="list-style-type: none"> ERICA DIAMANTIDES, PharmD, MHA, BCPS, Specialty Pharmacy Manager, UW Health <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri

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ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • SCOTT SAVAGE, PharmD, MS, Executive Vice Dean/Chief Operating Officer, Associate Professor of Clinical Education, UNC Eshelman School of Pharmacy
<p>ACPE #: 0204-0000-19-089-H04-P 0204-0000-19-089-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Specialty Pharmacy Operational Considerations</p> <p>Description: This module serves as a primer on specialty pharmacy operational considerations.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the basic facility requirements for a fully operational specialty pharmacy. 2. Identify the key elements of both the front-end and back-end workflow for specialty pharmacy. 3. Describe the reporting sources and utilization of common specialty pharmacy data sets. <p>Faculty:</p> <ul style="list-style-type: none"> • H. CHAMP BURGESS, PharmD, MBA, Vice President, Specialty Pharmacy, University Hospitals Health System <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • SCOTT SAVAGE, PharmD, MS, Executive Vice Dean/Chief Operating Officer, Associate Professor of Clinical Education, UNC Eshelman School of Pharmacy
<p>ACPE #: 0204-0000-19-091-H01-P 0204-0000-19-091-H01-T</p> <p>Credit Hours: 0.5</p>	<p>Title: Infection Prevention</p> <p>Description: This module serves as a primer on infection prevention.</p> <p>Learning Objectives:</p>

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>Activity Type: Knowledge-based</p>	<ol style="list-style-type: none"> 1. Discuss infection prevention in healthcare settings. 2. Explain the role of standard precautions in infection prevention. 3. Describe the role of hand hygiene in infection prevention. <p>Faculty:</p> <ul style="list-style-type: none"> • JASON J. SCHAFER, PharmD, MPH, BCPS AQ-ID, AAHIVP, Associate Professor, Department of Pharmacy Practice, Jefferson College of Pharmacy, Thomas Jefferson University • BHAVIK M. SHAH, PharmD, BCPS, Associate Professor, Department of Pharmacy Practice, Jefferson College of Pharmacy, Thomas Jefferson University • CLAUDINE EL-BEYROUTY, PharmD, BCPS, Advanced Practice Pharmacist, Infectious Diseases, Thomas Jefferson University Hospital <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • ERIN R. FOX, PharmD, BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health
<p>ACPE #: 0204-0000-19-092-H04-P 0204-0000-19-092-H04-T</p> <p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Medication Waste Disposal</p> <p>Description: This module serves as an introduction to proper medication waste disposal and management.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Discuss the history and importance of proper medication waste disposal. 2. List the common challenges that come with addressing medication waste disposal. 3. Describe the different types of medication waste and resources available to help manage medication waste disposal. <p>Faculty:</p>

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> • NATHAN E. HANSON, PharmD, MS, BCPS, Division Director of Pharmacy Operations, HealthTrust • ANNA WEINROTH WARD, JD, CHC, Director, Sustainability, HCA Healthcare • JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • JENNIFER HAMNER, PharmD, BCPPS, Manager of Professional Development, Residency Program Director for PGY1 Pharmacy and PGY2 Pediatric Pharmacy Residency Programs, Children’s Hospital Colorado
<p>ACPE #: 0204-0000-19-083-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Oncology Patient Management for Adults</p> <p>Description: This module serves as primer on oncology patient medication management for adults.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe appropriate use of chemotherapy dosing calculations. 2. Describe best practices for safe chemotherapy verification. 3. List chemotherapy agents associated with the development of hypersensitivity reactions. 4. List chemotherapy agents that have the potential to cause extravasation and the treatment management. <p>Faculty:</p> <ul style="list-style-type: none"> • JASON BERGSBAKEN, PharmD, BCOP, Pharmacy Coordinator, Regional Oncology Services, University of Wisconsin Hospital and Clinics • SANDEEP PARSAD, PharmD, MBA, BCOP, Assistant Pharmacy Director, Cancer & Investigational Drug Services, University of Chicago Medicine

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
<p>ACPE #: 0204-0000-19-083-H01-P</p> <p>Credit Hours: 1.5</p> <p>Activity Type: Knowledge-based</p>	<p>Title: Oncology Patient Management for Pediatrics</p> <p>Description: This module serves as primer on oncology patient medication management for pediatrics.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> Describe the most common pediatric malignancies. Identify steps in the pediatric chemotherapy order review process. List steps in calculating chemotherapy doses. Discuss pediatric oncology supportive care principles. List key pediatric clinical chemotherapy concepts. <p>Faculty:</p> <ul style="list-style-type: none"> ABBY KIM, PharmD, BCOP, Pharmacy Clinical Supervisor, Pediatric Clinical Pharmacist, Children’s Hospital Colorado <p>EDITORS</p> <ul style="list-style-type: none"> JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	SECTION EDITOR <ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center
ACPE #: 0204-0000-19-082-H01-P Credit Hours: 1.5 Activity Type: Application-based	<p>Title: Hematology and Blood Products</p> <p>Description: This module serves as a primer for pharmacists on hematology and related blood products.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Recognize clotting factor deficiencies and available clotting factors. 2. Select appropriate blood factor replacement therapy given patient-specific characteristics. 3. Develop a monitoring plan for a patient receiving blood factor replacement therapy. 4. Describe treatment options for patients with newly diagnosed thrombocytopenia. 5. Evaluate adverse effects and response to therapy for thrombocytopenia. <p>Faculty:</p> <ul style="list-style-type: none"> • RENA GOSSER, PharmD, BCPS, Population Health, Drug Information Clinical Pharmacist, UW Health, Providence St. Joseph Health • CAROLYN OXENCIS, PharmD, BCPS, BCOP, Assistant Professor, Clinical Pharmacist Hematology/Oncology, Medical College of Wisconsin School of Pharmacy, Froedtert and the Medical College of Wisconsin <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p>

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>ACPE #: 0204-0000-19-093-H04-P</p> <p>Credit Hours: 0.75</p> <p>Activity Type: Knowledge-based</p>	<ul style="list-style-type: none"> • ALI MCBRIDE, PharmD, MS, BCOP, FAzPA, FASHP, Clinical Coordinator, Hematology/Oncology, The University of Arizona Cancer Center <p>Title: Patient-Centered Communication and Education</p> <p>Description: This module serves as an introduction to patient-centered communication and education.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Explain the role of patient-centered communication in the pharmacists’ patient care process. 2. Describe core domains of patient-centered communication. 3. Demonstrate patient-centered communication when educating a patient on a new prescription. 4. Summarize positive patient outcomes associated with engagement in patient-centered communication. <p>Faculty:</p> <ul style="list-style-type: none"> • NICHOLAS E HAGEMEIER, PharmD, PhD, Associate Professor, Department of Pharmacy Practice, East Tennessee State University, Bill Gatton College of Pharmacy • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • PAMELA L. STAMM, PharmD, BCACP, BCPS, CDE, FASHP, Associate Professor, Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy
<p>ACPE #: 0204-0000-19-090-H04-P 0204-0000-19-090-H04-T</p>	<p>Title: Specialty Pharmacy Patient Care, Medication Access, and Educational Services</p>

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
<p>Credit Hours: 0.5</p> <p>Activity Type: Knowledge-based</p>	<p>Description: This module serves as a primer on specialty pharmacy care, including workflows, medication access and educational services.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe how to develop and implement patient care workflows for specialty pharmacy service lines. 2. Explain the different types of specialty medication access programs and how to help patients and caregivers navigate medication access programs. 3. Discuss how to develop and implement high-quality specialty pharmacy patient education services. 4. Describe steps to longitudinally assess the quality of both specialty pharmacy patient clinical outcomes and the specialty pharmacy patient experience. <p>Faculty:</p> <ul style="list-style-type: none"> • MEGHAN D. SWARTHOUT, PharmD, MBA, BCPS, Division Director, Johns Hopkins <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • SCOTT SAVAGE, PharmD, MS, Executive Vice Dean/Chief Operating Officer, Associate Professor of Clinical Education, UNC Eshelman School of Pharmacy
<p>ACPE #: 0204-0000-19-060-H01-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Aminoglycoside Dosing and Monitoring</p> <p>Description: This module serves as a primer for pharmacists who required to be competent in dosing and monitoring of aminoglycosides.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Describe the basic pharmacokinetic and pharmacodynamic parameters of aminoglycosides. 2. Discuss extended-interval dosing and traditional-interval dosing. 3. Apply an algorithm of five simple steps to recommend an aminoglycoside dosing regimen.

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<p>4. Choose monitoring plans for administration of aminoglycosides.</p> <p>Faculty:</p> <ul style="list-style-type: none"> • WHITNEY HUNG, PharmD, BCPS AQ-ID, Director of Pharmacy, Penn Medicine Princeton Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS AQ-ID, Vice President, Pharmacy Operations, Advocate Aurora Health
<p>ACPE #: 0204-0000-19-094-H04-P</p> <p>Credit Hours: 1.0</p> <p>Activity Type: Application-based</p>	<p>Title: Advanced Pharmacy Calculations</p> <p>Description: This module serves as a primer for pharmacists for advanced pharmaceutical calculations.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. Solve calculations for compounding a specific strength of a medication using higher and lower strength components using alligation. 2. Formulate a measurable dose, volume, and/or weight using an aliquot. 3. Calculate rate or unit changes of intravenous (IV) infusions. 4. Calculate milliequivalent (mEq) weight and convert millimoles (mmol) volume. 5. Discuss situations when calculations are used to adjust doses for renal insufficiency. <p>Faculty:</p> <ul style="list-style-type: none"> • DENISE M. FRANK, BPharm, RPh, FACA, Frank Consulting, LLC • KATRINA K. HARPER, PharmD, MBA, BCPS, DPLA, Sr. Clinical Manager, Center for Pharmacy Practice Excellence, Vizient

Activity Announcement

ACPE #, Credit Hours, Activity Type	Title, Description, Learning Objectives, Faculty
	<ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS-AQ ID Vice President, Pharmacy Operations Advocate Aurora Health <p>EDITORS</p> <ul style="list-style-type: none"> • JOEL A. HENNENFENT, PharmD, MBA, BCPS, FASHP, Chief Pharmacy Officer & Associate Administrator for Laboratory and Imaging Services Truman Medical Centers in Kansas City, Missouri • HEATHER A. PACE, PharmD, Assistant Director, Drug Information Center, Clinical Associate Professor, Division of Pharmacy Practice and Administration, University of Missouri – Kansas City School of Pharmacy <p>SECTION EDITOR</p> <ul style="list-style-type: none"> • KERSTEN WEBER TATARELIS, PharmD, BCPS AQ-ID, Vice President, Pharmacy Operations, Advocate Aurora Health

Faculty Disclosures

In accordance with ACPE and ACCME Standards for Commercial Support, anyone in a position to control the content of an educational activity is required to disclose to the accredited provider their relevant financial relationships. In accordance with these Standards, all potential conflicts of interest have been resolved. *An individual has a **relevant financial relationship** if he or she (or spouse/domestic partner) has a financial relationship in any amount occurring in the last 12 months with a commercial interest whose products or services are discussed in the activity content over which the individual has control.*

As defined by ACCME, a **commercial interest** is any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. The Standards for Commercial Support do not consider providers of clinical service directly to patients to be commercial interests

- All planners, presenters, reviewers, and ASHP staff of this session report no financial relationships relevant to this activity, except:
 - Alicia Forinash: Spouse-Employee, Bayer

Methods and CE Requirements

Each published activity consists of a reading module with references, competency assessment checklist, and competency assessment exam. Participants must participate in the entire activity, complete the evaluation and all required components to claim continuing pharmacy education credit online at ASHP eLearning Portal. Follow the prompts to claim credit and view your statement of credit within 60 days after completing the activity.

NOTE: CPE credit may be claimed only one time per individual activity.

Important Note – ACPE 60 Day Deadline

Activity Announcement

Per ACPE requirements, CPE credit must be claimed within 60 days of being earned. To verify that you have completed the required steps and to ensure your credits have been reported to CPE Monitor, we encourage you to check your NABP CPE Monitor eProfile account to validate your credits were transferred successfully before the 60-day deadline. After the 60 day deadline, ASHP will no longer be able to award credit for this activity.

System Technical Requirements

System Requirements Courses and learning activities are delivered via your Web browser and Acrobat PDF. Users should have a basic comfort level using a computer and navigating web sites.

View the [minimum technical and system requirements](#) for learning activities.