

DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST

Consultancies: David Cluck (Astellas); Spencer H. Durham (Shionogi Pharmaceuticals; Theratechnologies); Wesley D. Kufel (Theratechnologies); Amber F. Ladak (Theratechnologies); Tiffany Lee (Cidara Therapeutics); Milena Murray (Viiv; Janssen; Theratechnologies); Christina G. Rivera (Gilead); Jamie Wagner (Shionogi)

Stock Ownership: Sarah L. Anderson (Abbott Laboratories; Johnson & Johnson; Merck); Megan Chynoweth (Johnson & Johnson)

Royalties:

Grants: Elizabeth B. Hirsch (Merck); Wesley D. Kufel (Melinta; Merck)

Honoraria: Elizabeth B. Hirsch (MeMed Diagnostics; Melinta; Merck); Madeline King (Tetraphase/La Jolla; Shionogi); Milena Murray (Merck)

Other: Sarah L. Anderson (employee of Clinical Care Options)

Nothing to disclose: Lisa Avery; Elizabeth Barnes; Rebecca Castner; Lindsey M. Childs-Kean; Melissa Frontino; Kisha O'Neal Gant; Brianna E. Glynn-Servedio; Rhenda Harris; Erik Johnson; Rachel Kavanaugh; Karen L. Kier; Julia Kufel; Kathryn Litten; Ashley Marx; Ryan P. Mynatt; Andrea Pallotta; Sarah E. Pérez; Holly Rice; Kelsey Rife; Molly L. Rockstad; Shelly L. Rutledge; Beth Sutton Burke; Kenyu Tan; Eve Van Wagoner

ACCP Staff/Series Leader Disclosures

Nothing to disclose: Ed Alderman; Peter Burns; Daniel B. Chastain; Joanna Gillette; Brian K. Irons; Ashley H. Meredith; Brent Paloutzian; Kimma Sheldon-Old; Keri A. Sims

Note: All relevant financial relationships listed for these individuals have been mitigated.

ROLE OF BPS: The Board of Pharmacy Specialties (BPS) is an autonomous division of the American Pharmacists Association (APhA). To maintain its strict, independent standards for certification, BPS does NOT endorse or provide review information, preparatory courses, or study guides for Board Certification Examinations. The Board, through its specialty councils, is responsible for specialty examination content, administration, scoring, and all other aspects of its certification programs. BPS is totally separate and distinct from ACCP. ACSAP has been approved by BPS for use in BCACP recertification. Information about the BPS recertification process is available [online](#).

Questions regarding BCACP recertification should be directed to:

[Board of Pharmacy Specialties](#)

2215 Constitution Avenue NW

Washington, DC 20037

(202) 429-7591

Infectious Diseases in Ambulatory Care I Panel

Series Editors:

Brian K. Irons, Pharm.D., FCCP, BCACP

Professor

Jerry H. Hodge School of Pharmacy
Texas Tech University Health Sciences Center
Lubbock, Texas

Ashley H. Meredith, Pharm.D., MPH, FCCP, BCACP, BCPS, CDCES

Clinical Professor of Pharmacy Practice

Purdue University
West Lafayette, Indiana

Faculty Panel Chair:

Daniel B. Chastain, Pharm.D., BCIDP

Clinical Associate Professor

Department of Clinical and Administrative Pharmacy
University of Georgia College of Pharmacy
Albany, Georgia

Genitourinary Infections

Author

Spencer H. Durham, Pharm.D., BCPS, BCIDP

Associate Clinical Professor and Director of Alumni & Professional Affairs

Department of Pharmacy Practice
Auburn University Harrison College of Pharmacy
Auburn, Alabama

Reviewers

Elizabeth B. Hirsch, Pharm.D., FCCP

Associate Professor

Department of Experimental and Clinical Pharmacology
University of Minnesota College of Pharmacy
Minneapolis, Minnesota

Megan Chynoweth, Pharm.D., BCACP, CDCES

Ambulatory Care Pharmacist

Kaiser Permanente
Ventura, California

Kenyu Tan, Pharm.D., BCACP, BCGP, BCPS

Senior Clinical Pharmacist

Department of Pharmacy
Mount Elizabeth Hospital Singapore (IHH Healthcare)
Singapore, Republic of Singapore

Sexually Transmitted Infections

Author

Sarah E. Pérez, Pharm.D., BCACP, AAHIVP

Clinical Pharmacist

Department of Pharmacy
Roth M. Rothstein CORE Center
Chicago, Illinois

Reviewers

Milena Murray, Pharm.D., FCCP, BCIDP, AAHIVP

Associate Professor

Department of Pharmacy Practice
Midwestern University College of Pharmacy,
Downers Grove Campus
Downers Grove, Illinois
System-Level HIV/ID Clinical Pharmacist
Department of Ambulatory Pharmacy
Northwestern Medicine
Wheaton, Illinois

Kisha O'Neal Gant, Pharm.D., BCACP, BCGP, BCPS

Director of Pharmacy

Department of Pharmacy
Slidell Memorial Hospital
Slidell, Louisiana

Rhenda Harris, Pharm.D., B.S., MBA, BCACP

Director of Specialty Pharmacy

Ballad Health
Johnson City, Tennessee

The American College of Clinical Pharmacy thanks Sarah L. Anderson, Pharm.D., FCCP, FASHP, BCPS, BCACP, for her contribution to development of the ACSAP 2022-2024 series during her term as Series Editor. Dr. Anderson's term ended before her employment with Clinical Care Options.

Infectious Diseases in Ambulatory Care II Panel

Series Editors:

Brian K. Irons, Pharm.D., FCCP, BCACP

Professor

Jerry H. Hodge School of Pharmacy
Texas Tech University Health Sciences Center
Lubbock, Texas

Ashley H. Meredith, Pharm.D., MPH, FCCP, BCACP, BCPS, CDCES

Clinical Professor of Pharmacy Practice

Purdue University
West Lafayette, Indiana

Faculty Panel Chair:

Daniel B. Chastain, Pharm.D., BCIDP

Clinical Associate Professor

Department of Clinical and Administrative Pharmacy
University of Georgia College of Pharmacy
Albany, Georgia

HIV Pharmacotherapy for Adults

Author

Amber F. Ladak, Pharm.D., MPH, BCACP, AAHIVP

Clinical Pharmacist

Department of Infectious Disease
Augusta University
Augusta, Georgia

Reviewers

Rebecca Castner, Pharm.D., BCACP, AAHIVP

Associate Professor of Clinical Sciences

Department of Pharmacy Practice
Roosevelt University College of Science, Health, and
Pharmacy
Schaumburg, Illinois

Karen L. Kier, Ph.D., BCPS, BCACP

*Professor of Pharmacy Practice, Director of Drug and Health
Information*

Department of Pharmacy Practice
Raabe College of Pharmacy, Ohio Northern University
Ada, Ohio

PrEP and PEP Pharmacotherapy for HIV

Author

David Cluck, Pharm.D., BCPS, BCIDP, AAHIVP

Associate Professor of Pharmacy Practice

Department of Pharmacy Practice
East Tennessee State University Gatton College of
Pharmacy
Johnson City, Tennessee

Reviewers

Elizabeth Barnes, Pharm.D., BCACP, AAHIVP

Clinical Pharmacist Coordinator

Department of Specialty Drug Management
Atrium Health
Charlotte, North Carolina

Melissa Frontino, Pharm.D., BCACP

Ambulatory Care Clinical Pharmacist

Oak Street Health
Philadelphia, Pennsylvania

The American College of Clinical Pharmacy thanks Sarah L. Anderson, Pharm.D., FCCP, FASHP, BCPS, BCACP, for her contribution to development of the ACSAP 2022-2024 series during her term as Series Editor. Dr. Anderson's term ended before her employment with Clinical Care Options.

Infectious Diseases in Ambulatory Care III Panel

Series Editors:

Brian K. Irons, Pharm.D., FCCP, BCACP

Professor

Jerry H. Hodge School of Pharmacy
Texas Tech University Health Sciences Center
Lubbock, Texas

Ashley H. Meredith, Pharm.D., MPH, FCCP, BCACP, BCPS, CDCES

Clinical Professor of Pharmacy Practice

Purdue University
West Lafayette, Indiana

Faculty Panel Chair:

Daniel B. Chastain, Pharm.D., BCIDP

Clinical Associate Professor

Department of Clinical and Administrative Pharmacy
University of Georgia College of Pharmacy
Albany, Georgia

Outpatient Parenteral and Complex Antimicrobial Therapy

Author

Ryan P. Mynatt, Pharm.D., BCPS

Clinical Pharmacist, Infectious Diseases & Outpatient Parenteral Antimicrobial Therapy (OPAT)

Department of Pharmacy Services
University of Kentucky HealthCare
Lexington, Kentucky

Reviewers

Lindsey M. Childs-Kean, Pharm.D., MPH, BCPS

Clinical Associate Professor

Department of Pharmacotherapy and Translational Research
University of Florida College of Pharmacy
Gainesville, Florida

Kathryn Litten, Pharm.D., BCACP

Clinical Assistant Professor

Department of Pharmacy Practice
The University of Texas at Austin College of Pharmacy
Austin, Texas

Eve Van Wagoner, Pharm.D., BCACP

Primary Care Clinical Pharmacist

Department of Pharmacy Primary Care Services
University of Utah Health
South Jordan, Utah

Antimicrobial Stewardship in Ambulatory Care

Author

Christina G. Rivera, Pharm.D., BCPS, AAHIVP

Antimicrobial Stewardship Clinical Pharmacist Manager
Department of Pharmacy
Mayo Clinic
Rochester, Minnesota

Reviewers

Andrea Pallotta, Pharm.D., BCPS, BCIDP

Clinical Coordinator
Department of Pharmacy
Cleveland Clinic
Cleveland, Ohio

Rachel Kavanaugh, Pharm.D., BCACP

Assistant Professor, Director of Professional Labs
Department of Clinical Sciences
Medical College of Wisconsin School of Pharmacy
Milwaukee, Wisconsin

Holly Rice, Pharm.D., BCACP

Chief Pharmacist
Department of Pharmacy
Indian Health Service, Woodrow Wilson Keeble Memorial Health Care Center
Sisseton, South Dakota

The American College of Clinical Pharmacy thanks Sarah L. Anderson, Pharm.D., FCCP, FASHP, BCPS, BCACP, for her contribution to development of the ACSAP 2022-2024 series during her term as Series Editor. Dr. Anderson's term ended before her employment with Clinical Care Options.

Infectious Diseases in Ambulatory Care IV Panel

Series Editors:

Brian K. Irons, Pharm.D., FCCP, BCACP

Professor

Jerry H. Hodge School of Pharmacy
Texas Tech University Health Sciences Center
Lubbock, Texas

Ashley H. Meredith, Pharm.D., MPH, FCCP, BCACP, BCPS, CDCES

Clinical Professor of Pharmacy Practice

Purdue University
West Lafayette, Indiana

Faculty Panel Chair:

Daniel B. Chastain, Pharm.D., BCIDP

Clinical Associate Professor

Department of Clinical and Administrative Pharmacy
University of Georgia College of Pharmacy
Albany, Georgia

Interactive Case: Infectious Diseases due to Immunosuppressive Therapies

Authors

Lisa Avery, Pharm.D., FCCP, BCPS, BCIDP

Professor

Department of Pharmacy Practice
St. John Fisher College, Wegmans School of Pharmacy
Rochester, New York
Director Antimicrobial Stewardship Program
St. Joseph's Health
Syracuse, New York

Julia Kufel, Pharm.D., BCIDP

Infectious Diseases Pharmacist

Department of Pharmacy
St. Joseph's Health
Syracuse, New York

Reviewers

Ashley Marx, Pharm.D., BCPS, BCIDP

Clinical Specialist, Infectious Diseases

Department of Pharmacy
UNC Medical Center
Associate Professor of Clinical Education
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
Chapel Hill, North Carolina

Elizabeth Sutton Burke, Pharm.D., BCACP, CDCES, BC-ADM

Clinical Pharmacy Manager

Department of Pharmacy
Rochester General Hospital
Rochester, New York

Brianna E. Glynn-Servedio, Pharm.D., BCACP

Clinical Pharmacy Practitioner

Department of Pharmacy/Ambulatory Care
Department of Veterans Affairs—Durham VA Health Care System
Raleigh, North Carolina

Interactive Case: Antimicrobial Pharmacokinetic and Pharmacodynamic Considerations

Author

Wesley D. Kufel, Pharm.D., BCIDP, BCPS, AAHIVP

Clinical Assistant Professor

Department of Pharmacy Practice
Binghamton University School of Pharmacy and Pharmaceutical Sciences
Binghamton, New York
Clinical Assistant Professor
Department of Medicine
State University of New York Upstate Medical University
Clinical Pharmacy Specialist, Infectious Diseases
Department of Pharmacy
State University of New York Upstate University Hospital
Syracuse, New York

Reviewers

Madeline King, Pharm.D., BCIDP

Assistant Professor of Clinical Pharmacy

Department of Pharmacy Practice
University of the Sciences
Philadelphia, Pennsylvania

Kelsey Rife, Pharm.D., BCACP

Clinical Program Manager—Academic Affairs;

Gastroenterology/Hepatology Clinical Pharmacist
Department of Pharmacy
VA Northeast Ohio Healthcare System
Cleveland, Ohio

Shelly L. Rutledge, Pharm.D., BCACP

Senior Clinical Pharmacy Specialist—Managed Care

Department of Pharmacy
Providence Health Plans
Beaverton, Oregon

Interactive Case: Acute Bacterial Skin and Skin Structure Infections

Authors

Jamie L. Wagner, Pharm.D., BCPS

Clinical Associate Professor
Department of Pharmacy Practice
University of Mississippi School of Pharmacy
Jackson, Mississippi

Tiffany Lee, Pharm.D., BCIDP

Clinical Pharmacy Specialist—Infectious Diseases
Department of Pharmacy
Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania

Reviewers

Molly Rockstad, Pharm.D., BCPS, BCACP

Clinical Pharmacist
Department of Family Medicine
Cook County Health
Chicago, Illinois

Erik Johnson, Pharm.D., BCACP

Pharmacy Manager
Medication Access and Renewal Center—Prior
Authorization
UCHealth
Aurora, Colorado

The American College of Clinical Pharmacy thanks Sarah L. Anderson, Pharm.D., FCCP, FASHP, BCPS, BCACP, for her contribution to development of the ACSAP 2022-2024 series during her term as Series Editor. Dr. Anderson's term ended before her employment with Clinical Care Options.