Arrhythmias and Thrombosis I Panel

Series Editors:

Cynthia A. Jackevicius, Pharm.D., M.Sc., FCCP, FCSHP, FAHA, FCCS, FACC, BCPS, BCCP

Professor, Pharmacy Practice
College of Pharmacy
Western University of Health Sciences
Clinical Pharmacy Practitioner, Cardiology
VA Greater Los Angeles Healthcare System
Los Angeles, California

J. Herbert Patterson, Pharm.D., FCCP, FHFSA

Professor Emeritus of Pharmacy
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Faculty Panel Chair:

Kristen Bova Campbell, Pharm.D., FACC

Clinical Pharmacist
Department of Cardiology/Electrophysiology
Duke University Hospital
Durham, North Carolina

ECG Interpretation of QT Prolongation

Authors

Zachary R. Noel, Pharm.D., Ph.D., BCCP

Associate Professor
Division of Practice Advancement and Clinical Education
University of North Carolina Eshelman School of Pharmacy
Chapel Hill, North Carolina

Joseph S. Van Tuyl, Pharm.D., BCCP

Associate Professor
Department of Pharmacy Practice
St. Louis College of Pharmacy at UHSP
St. Louis, Missouri

Reviewers

James D. Hoehns, Pharm.D., FCCP, BCPS

Clinical Professor
Division Head of Applied Clinical Sciences
Department of Pharmacy Practice and Science
University of Iowa College of Pharmacy
Iowa City, Iowa
Research Director
Cedar Valley Clinical Research
Waterloo, Iowa

Brian Lopez, Pharm.D., BCCP, BCCCP

Clinical Pharmacist Lead - Cardiology
Department of Pharmacy
Dartmouth-Hitchcock Medical Center
Lebanon, New Hampshire

Michael A. Gillette, Pharm.D., FHFSA, AACC, BCPS, BCCP

Clinical Pharmacy Practitioner, Cardiology Department of Veterans Affairs Veterans Integrated Service Network 17 Temple, Texas

Case Series: Atrial Fibrillation Clinics

Authors

Glenn Herrington, Pharm.D., FACC, FHFSA, BCCP, CPP, HF-Cert

Clinical Pharmacist Practitioner Novant Health Heart and Vascular Institute Wilmington, North Carolina

Elena M. Wellen, Pharm.D., BCCP, CPP

Cardiology Clinical Pharmacist Practitioner
Novant Health New Hanover Regional Medical Center
Wilmington, North Carolina

Reviewers

Anne Rodino, Pharm.D., CPP, BCCP

Clinical Pharmacist Practitioner
Department of Pharmacy
UNC Health Rex
Raleigh, North Carolina

Alicia P. Surber, Pharm.D., BCPS, BCCCP, BCCP, BCEMP

Clinical Pharmacist
Department of Oncology
Saint Alphonsus Regional Medical Center
Boise, Idaho

Arrhythmias and Thrombosis II Panel

Series Editors:

Cynthia A. Jackevicius, Pharm.D., M.Sc., FCCP, FCSHP, FAHA, FCCS, FACC, BCPS, BCCP

Professor, Pharmacy Practice
College of Pharmacy
Western University of Health Sciences
Clinical Pharmacy Practitioner, Cardiology
VA Greater Los Angeles Healthcare System
Los Angeles, California

J. Herbert Patterson, Pharm.D., FCCP, FHFSA

Professor Emeritus of Pharmacy
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Faculty Panel Chair:

Kristen Bova Campbell, Pharm.D., FACC

Clinical Pharmacist
Department of Cardiology/Electrophysiology
Duke University Hospital
Durham, North Carolina

Ventricular Tachycardia

Author

John Lindsley, Pharm.D., BCCP, BCCCP

Lead Clinical Pharmacy Specialist, Cardiac Intensive Care Unit Department of Pharmacy Johns Hopkins Hospital Baltimore, Maryland

Reviewers

Sabrina Dunham, Pharm.D., BCPS, BCCP

Clinical Pharmacist Specialist – Cardiovascular Critical Care
Department of Pharmacy Services
University of Michigan Health
Ann Arbor, Michigan

Ayesha Ather, Pharm.D., BCCP

Cardiology Clinical Pharmacist - Cardiothoracic Surgery
Acute Care Pharmacy Services
University of Kentucky HealthCare
Assistant Adjunct Professor
Department of Pharmacy Practice and Science
University of Kentucky College of Pharmacy
Lexington, Kentucky

Antiarrhythmic Medications vs. Ablation

Author

Anastasia L. Armbruster, Pharm.D., FACC, BCCP

Professor
Department of Pharmacy Practice
St. Louis College of Pharmacy at UHSP
Saint Louis, Missouri

Reviewers

Katie M. Greenlee, Pharm.D., BCCP

Cardiology Clinical Specialist Department of Pharmacy Cleveland Clinic Cleveland. Ohio

Kristen de Almeida, Pharm.D., BCCP

Cardiology Clinical Specialist Department of Pharmacy Cleveland Clinic Weston, Florida

Arrhythmias and Thrombosis III Panel

Series Editors:

Cynthia A. Jackevicius, Pharm.D., M.Sc., FCCP, FCSHP, FAHA, FCCS, FACC, BCPS, BCCP

Professor, Pharmacy Practice
College of Pharmacy
Western University of Health Sciences
Clinical Pharmacy Practitioner, Cardiology
VA Greater Los Angeles Healthcare System
Los Angeles, California

J. Herbert Patterson, Pharm.D., FCCP, FHFSA

Professor Emeritus of Pharmacy
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Faculty Panel Chair:

Kristen Bova Campbell, Pharm.D., FACC

Clinical Pharmacist
Department of Cardiology/Electrophysiology
Duke University Hospital
Durham, North Carolina

Cardiac Wearables and Self-Monitoring Devices

Author

Janna Beavers, Pharm.D., FHFSA, BCCP, CPP

Clinical Pharmacist Practitioner WakeMed Physician Practices Raleigh, North Carolina

Reviewers

James C. Coons, Pharm.D., FCCP, FACC, BCCP

Professor
Department of Pharmacy and Therapeutics
University of Pittsburgh
Clinical Pharmacist, Cardiology
UPMC Presbyterian Hospital
Pittsburgh, Pennsylvania

Rachel Klosko, Pharm.D., BCCP

Clinical Assistant Professor

Department of Pharmacy Practice

Binghamton University School of Pharmacy
and Pharmaceutical Sciences

Binghamton, New York

Risk Modification for Atrial Fibrillation

Author

Genevieve Hale, Pharm.D., BCPS, BCCP

Associate Professor
Department of Pharmacy Practice
Nova Southeastern University Barry and
Judy Silverman College of Pharmacy
Fort Lauderdale, Florida

Reviewers

Byron Stevenson, Pharm.D., BCCP

Clinical Cardiology Pharmacist
Department of Pharmacy
Northwestern Memorial Hospital
Chicago, Illinois

Matthew A. Silva, Pharm.D., BCPS

Professor

Department of Pharmacy Practice
Massachusetts College of Pharmacy and Health Sciences
Clinical Pharmacy Specialist
Family Health Center
Worcester, Massachusetts

Tomasz Jurga, Pharm.D., BCPS, BCCP, BCACP, HF-Cert, CDCES

Clinical Pharmacy Specialist
Department of Pharmacy
Lieutenant Colonel Charles S. Kettles VA Medical Center
Ann Arbor, Michigan

Arrhythmias and Thrombosis IV Panel

Series Editors:

Cynthia A. Jackevicius, Pharm.D., M.Sc., FCCP, FCSHP, FAHA, FCCS, FACC, BCPS, BCCP

Professor, Pharmacy Practice
College of Pharmacy
Western University of Health Sciences
Clinical Pharmacy Practitioner, Cardiology
VA Greater Los Angeles Healthcare System
Los Angeles, California

J. Herbert Patterson, Pharm.D., FCCP, FHFSA

Professor Emeritus of Pharmacy
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Faculty Panel Chair:

Kristen Bova Campbell, Pharm.D., FACC

Clinical Pharmacist
Department of Cardiology/Electrophysiology
Duke University Hospital
Durham, North Carolina

Antithrombotic Therapy for Valvular Heart Disease

Authors

Kelly M. Rudd, Pharm.D., FCCP, BCPS, CACP

Clinical Associate Professor of Medicine
Department of Medical Education
Oklahoma State University Center for Health
Sciences College of Osteopathic Medicine
Tulsa, Oklahoma

Amanda R. McFee Winans, Pharm.D., BCPS, CACP

Clinical Pharmacy Specialist
Clinical Pharmacy Supervisor
Department of Pharmaceutical Care Services
Bassett Medical Center
Cooperstown, New York

Reviewers

Paul P. Dobesh, Pharm.D., FCCP, FACC, FAHA, BCPS, BCCP

Professor
Department of Pharmacy Practice and Science
University of Nebraska Medical Center College of Pharmacy
Omaha, Nebraska

Thomas Szymanski, Pharm.D., BCCP, BCCCP

Clinical Pharmacy Specialist, Cardiovascular Critical Care
Department of Pharmacy
WVU Medicine – J. W. Ruby Memorial Hospital
Morgantown, West Virginia

Arrhythmias and Thrombosis V Panel

Series Editors:

Cynthia A. Jackevicius, Pharm.D., M.Sc., FCCP, FCSHP, FAHA, FCCS, FACC, BCPS, BCCP

Professor, Pharmacy Practice
College of Pharmacy
Western University of Health Sciences
Clinical Pharmacy Practitioner, Cardiology
VA Greater Los Angeles Healthcare System
Los Angeles, California

J. Herbert Patterson, Pharm.D., FCCP, FHFSA

Professor Emeritus of Pharmacy
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Faculty Panel Chair:

Kristen Bova Campbell, Pharm.D., FACC

Clinical Pharmacist
Department of Cardiology/Electrophysiology
Duke University Hospital
Durham, North Carolina

Case Series: Left Ventricular Thrombus

Author

Laura Tsu, Pharm.D., BCPS, BCGP, BCCP

Associate Professor
Department of Pharmacy Practice
Chapman University School of Pharmacy
Irvine, California

Reviewers

Sarah A. Spinler, Pharm.D., FCCP

Professor
Department of Pharmacy Practice
Binghamton University School of Pharmacy
and Pharmaceutical Sciences
Vestal, New York

Mohamed Amar, Pharm.D., BCPS, BCCP

Cardiology Clinical Pharmacy Specialist
Department of Pharmacy
Cleveland Clinic
Cleveland. Ohio

Christina Ruggia-Check, Pharm.D., FAST, BCPS, BCCP, BCTXP

Clinical Pharmacy Specialist – CV
Surgery/Heart Failure/Heart Transplant
Department of Pharmacy
Temple University Health System – Main Campus
Philadelphia, Pennsylvania

Recorded Webcast: Management of Supraventricular Tachycardias

Author

Stephanie Dwyer Kaluzna, Pharm.D., BCCP

Clinical Assistant Professor / Cardiovascular Pharmacist
Department of Pharmacy Practice
University of Illinois Chicago Retzky College of Pharmacy
Chicago, Illinois

Reviewers

Ashley Lochman, Pharm.D., BCCP

Cardiology Clinical Specialist Department of Pharmacy Cleveland Clinic Cleveland, Ohio

Benjamin Wang, Pharm.D., BCCP

Cardiac Care Unit and Pulmonary
Hypertension Clinical Pharmacist
Department of Pharmacy
Stanford Health Care
Palo Alto, California