

Fellowship Programs

Clinical Cardiac Electrophysiology



Rahul Doshi, MD, FACC, FHRS
Interim Program Director

Dr. Rahul Doshi serves as Chief of Cardiovascular Medicine and Network Director of Electrophysiology at HonorHealth and is a Distinguished Professor of Medicine at the Arizona State University John Shufeldt School of Medicine and Medical Engineering. A nationally recognized leader in clinical cardiac electrophysiology, Dr. Doshi is an accomplished clinician and investigator with a distinguished record of innovation and scholarship. He has authored more than 100 peer-reviewed publications and has held leadership roles within the Heart Rhythm Society, including service on its Board of Trustees, in addition to contributing to several major electrophysiology journal editorial boards. At HonorHealth, Dr. Doshi leads a broad portfolio of clinical trials spanning the full spectrum of electrophysiology and is actively advancing initiatives focused on personalized, high-quality arrhythmia care.



Ankur Karnik, MD, PhD, SM, FSCAI
Associate Program Director

Dr. Karnik is a Clinical Associate Professor at the University of Arizona College of Medicine. He was previously full-time faculty at Boston University School of Medicine and Boston Medical Center and Associate Program Director for the clinical cardiac electrophysiology fellowship there. His clinical interests include atrial fibrillation, ablation and complex atrial arrhythmias, arrhythmic risk stratification in infiltrative and inherited cardiomyopathies, channelopathies, and conduction system pacing. His research interests and publications have focused on epidemiology of atrial fibrillation and oversensing in cardiac implantable electronic devices. He also enjoys teaching medical students, residents, and fellows.



Thomas Ross, MD

Dr. Ross received his undergraduate degree from Amherst College and his M.D. from the University of Virginia. After completing his internship and residency at the University of California at San Francisco, he completed a Fellowship in Cardiology at Cedars-Sinai Medical Center in Los Angeles with an emphasis in electrophysiology. He has been in practice in Phoenix and Scottsdale since 1983 and is not only one of the first electrophysiologists to practice in Arizona but also one of the first to become board certified in electrophysiology. He was involved with the first defibrillator implants and catheter ablations in Arizona and has extensive experience in both implanting and managing pacemakers and defibrillators and in performing all forms of catheter ablation. In his 40 years of practice, he has held multiple positions in local and national health care organizations. He has served on community boards and has held multiple positions with various hospitals, including as chief of staff. Education has also been an important part of his career and he currently is active in the Cardiology and Electrophysiology fellowship programs at HonorHealth. Dr. Ross is Board Certified in Internal Medicine, Cardiology and Cardiac Electrophysiology. His practice is limited to electrophysiology.



Mark Seifert, MD

Dr. Seifert is a board-certified cardiac electrophysiologist with more than 20 years of experience in advanced arrhythmia care. He earned his MD from the Johns Hopkins School of Medicine, completed an internal medicine residency at the University of Michigan, and pursued cardiology and advanced electrophysiology fellowship training at Harvard Medical School. He has held academic and leadership roles including Clinical Instructor at UCLA and Medical Director of multiple electrophysiology laboratories. A Fellow of the American College of Cardiology and the Heart Rhythm Society, Dr. Seifert's clinical and research interest include zero- and near-zero fluoroscopy ablation and device implantation, complex atrial and ventricular arrhythmia ablation, cardiac resynchronization therapy, and novel device and navigation technologies. He has served as a principal investigator on numerous landmark clinical trials and is widely recognized for his commitment to innovation, education, and excellence in electrophysiology.



Yoaav Krauthammer, MD

Dr. Krauthammer is a board-certified cardiac electrophysiologist. He earned his medical degree from The Ohio State University College of Medicine, followed by an internal medical residency at the Medical University of South Carolina. He then completed a fellowship in clinical cardiology at the Ochsner Clinic Foundation and advanced subspecialty training in cardiac electrophysiology at the Cleveland Clinic. His clinical interests include complex ablation, device therapy, and lead extraction, with a focus on improving procedural safety and patient outcomes. Dr. Krauthammer has contributed to numerous clinical trials and multicenter studies as a principal and co-investigator and has authored multiple peer-reviewed publications in leading cardiology journals. He is an active member of the Heart Rhythm Society and has presented his work at national and international conferences.



Thomas Mattioni, MD

Dr. Mattioni has had a distinguished career in cardiac electrophysiology spanning several decades. He earned his medical degree from Northwestern University, completed his internal medicine training at McGaw Medical Center of Northwestern University, and completed fellowships in cardiology and cardiac electrophysiology at Northwestern. Dr. Mattioni's clinical and research interests include complex arrhythmia management, device therapy, and sudden cardiac death prevention. He has played a key role in numerous landmark clinical trials and has authored an extensive body of peer-reviewed publications and abstracts in the field of electrophysiology. A Fellow of the American College of Cardiology and member of the Heart Rhythm Society, he remains actively engaged in advancing education, research, and innovation in cardiac electrophysiology.



Sushmitha Patibandla, MD

Dr. Patibandla is a board-certified cardiac electrophysiologist specializing in the comprehensive management of cardiac arrhythmias. Her clinical expertise includes complex catheter ablation, device implantation (pacemakers, ICDs, and leadless systems), and advanced imaging and mapping techniques, with a particular interest in syncope and arrhythmia care in women. She earned her medical degree from Kakatiya Medical College in India, followed by internal medicine residency training at both George Washington University and the University of Oklahoma. She subsequently completed a fellowship in cardiology at SUNY Buffalo and advanced subspecialty training in cardiac electrophysiology at the Mayo Clinic in Arizona. In addition to her clinical work, Dr. Patibandla is actively involved in education and mentorship, serving as teacher for cardiology fellows. She is a frequent speaker for industry and professional programs and serves on advisory boards, with a focus on advancing innovation and patient-centered care in electrophysiology. Her academic contributions include multiple peer-reviewed publications and research focused on cardiovascular disease, endothelial function, and arrhythmogenesis. She is an active member of major professional societies, including the Heart Rhythm Society, American College of Cardiology, and American Heart Association.



David Riggio, MD

Dr. Riggio is a board-certified cardiac electrophysiology with extensive experience in the diagnosis and management of complex cardiac arrhythmias. He completed his medical degree at the University of Southern California, followed by internal medicine training and cardiology fellowship at Los Angeles-USC Medical Center, and advanced fellowship training in clinical cardiac electrophysiology at the University of Maryland. Dr. Riggio is a Fellow of the American College of Cardiology and an active member of the Heart Rhythm Society. His clinical interests include device therapy, lead management, and the treatment of arrhythmias, and he has contributed to multiple clinical studies and peer-reviewed publications in the field.