

Structural Cardiology Fellowship Faculty



Andrew Cluckey, MD
Program Director

Dr. Cluckey is an interventional and structural cardiologist specializing in advanced catheter-based therapies for structural heart disease, coronary artery disease, and complex cardiovascular conditions. He received his medical degree from Case Western Reserve University School of Medicine and subsequently completed his residency in internal medicine at Stanford University. He then pursued advanced subspecialty training at Vanderbilt University Medical Center, where he completed fellowships in cardiovascular medicine, interventional cardiology and structural heart disease. He has an extensive academic and research background, authoring numerous peer-reviewed publications in cardiology, electrophysiology, and cardiovascular imaging. Dr. Cluckey serves as Associate Program Director for the Interventional Cardiology Fellowship and Program Director for the Structural Heart Disease Fellowship, helping guide the next generation of cardiovascular specialists. He is also an Assistant Professor of Clinical Practice at the Arizona State University John Shufeldt School of Medicine and Medical Engineering. Dedicated to education and system improvement, Dr. Cluckey has led lectures, case conferences, and educational initiatives for residents, nurses, and medical students. He remains actively involved in quality improvement, academic mentorship, and expanding access to advanced cardiovascular therapies.



Mohanad Hasan, MD

Dr. Hasan is an interventional and structural cardiologist specializing in complex coronary interventions and advanced transcatheter structural heart therapies. He earned his medical degree from the University of Baghdad College of Medicine in 2008. He completed his internal medicine residency at the University of Nevada School of Medicine in Las Vegas, followed by cardiovascular disease, interventional cardiology, and structural heart disease interventions fellowships at the Ochsner Clinical Foundation in New Orleans. Dr. Hasan's clinical expertise includes complex coronary interventions, advanced structural heart disease therapies, transcatheter heart valve procedures, innovations in percutaneous valve repair and replacement and adoption of emerging cardiovascular technologies for high-risk patients. He is passionate about integrating novel devices and techniques to improve outcomes for patients with complex cardiovascular disease. He has performed procedures in complex coronary interventions, mechanical circulatory support (MCS), transcatheter aortic valve replacement (TAVR), tricuspid valve interventions (TTEER, TTVR), mitral valve interventions (MTEER, TMVR), left atrial appendage closure, PFO/ASD closure and mechanical thrombectomy for pulmonary embolism and deep vein thrombosis. Dr. Hasan is deeply committed to medical education and serves as a mentor to cardiology fellows, particularly in advanced interventional and structural heart procedures.



Mazen Roumia, MD, FACC, FSCAI

Dr. Roumia is an interventional and structural cardiologist recognized for his expertise in advanced coronary and structural heart interventions. He earned his medical degree from Aleppo University School of Medicine in Syria and completed his internal medicine residency at Michigan State University. He went on to pursue subspecialty training with a cardiology fellowship at Geisinger Medical Center, followed by an interventional cardiology fellowship at Brown University, where he developed advanced proficiency in complex interventional procedures. Dr. Roumia's clinical practice focuses on complex coronary interventions and structural heart interventions, including advanced transcatheter therapies. His research is focused on medical device innovation and clinical trial leadership in the field of interventional cardiology. Dr. Roumia has held several key leadership positions during his career where he played a central role in program development, quality improvement initiatives, and expanding access to advanced structural heart therapies. He is focused on shaping future clinicians by providing real-world clinical instruction and supportive mentorship.



Per Sommer, MD, FACC, FSCAI

Dr. Sommer is an interventional and structural cardiologist with advanced expertise in complex cardiac procedures and the management of high-risk cardiovascular conditions. As Director of Cardiology at HonorHealth Deer Valley Medical Center, he leads clinical, operational, and program-development initiatives focused on delivering comprehensive, patient-centered heart care. Dr. Sommer received his medical degree from Christian Albrechts University in Kiel, Germany. He completed his internal medicine residency and cardiology fellowship at the Albert Einstein College of Medicine/Montefiore Medical Center in Bronx, New York. He subsequently pursued highly specialized training at the University of Colorado in Denver, completing both an interventional cardiology fellowship and a structural cardiology fellowship, with a focus on catheter-based therapies for heart valve disease and other structural abnormalities. His clinical interests include heart valve disease, structural heart interventions and critical care cardiology. Dr. Sommer's research focuses on emerging valve therapies and device development. His work contributes to advancing minimally invasive treatment options for patients with complex structural heart conditions. Dr. Sommer is an active presenter at national and international conferences, sharing insights on interventional cardiology, structural procedures, and innovations in valve therapy. A dedicated educator, Dr. Sommer has received multiple teaching and faculty awards throughout his career.



Haidar Talal Yassin, MD

Dr. Yassin is an interventional and structural cardiologist. As Network Director of Structural Heart Disease at HonorHealth, he leads the development of clinical protocols, quality metrics, multidisciplinary teams, strategic growth, and cross-department collaboration to advance a high-performing structural heart program. He earned his Bachelor of Medicine, Bachelor of Surgery degree from the Baghdad University College of Medicine, then completed his internal medicine residency at SUNY Downstate at the Long Island College Hospital. He went on to complete a cardiovascular disease fellowship at the SUNY Downstate Medical Center and an interventional cardiology fellowship at Winthrop University Hospital. Dr. Yassin specializes in complex coronary intervention, transcatheter valve therapies, and minimally invasive structural heart procedures. He is a certified proctor for TAVR, TMVR, ASD/PFO closure, and left atrial appendage closure, and has extensive experience with advanced hemodynamic support devices and high-risk coronary interventions. Throughout his career, Dr. Yassin has been deeply committed to academic leadership. He serves as a Clinical Assistant Professor of Medicine at the University of Arizona – Phoenix and has previously directed both the Interventional Cardiology and Structural Heart fellowships at Banner University Medical Center. In these roles, he guided fellows through high-level clinical training, complex procedural experience, and scholarly development. He is known for his hands-on teaching style, ability to simplify complex interventional concepts, and dedication to fostering clinical excellence and professional growth in trainees. Dr. Yassin's mentorship extends into his research leadership. He has served as a primary or co-primary investigator in major structural heart trials- including TRILUMINAT and SUMMIT- providing fellows and young physicians with opportunities to engage in cutting-edge clinical investigation. His commitment to education continues to influence the next generation of cardiologist while elevating the quality of patient care within the community.