

Complex and High-Risk Percutaneous Coronary Intervention Fellows

First Year Fellows

Rene Boudreau



I was born and raised in Fredericton on Canada's East Coast. After completing my undergraduate studies at Western, where I competed as a varsity swimmer, I earned my MD at Dalhousie University. Subsequently, I moved to Ottawa for Internal Medicine residency. I remained in Ottawa for my cardiology fellowship and two years of interventional training at the University of Ottawa Heart Institute. My clinical interests center on complex and high-risk coronary interventions, chronic total occlusions, and the management of cardiogenic shock with temporary mechanical circulatory support. I plan to continue working in these areas, with a particular focus on improving outcomes in AMI-CS through advanced coronary interventions and tMCS.

I am thrilled to spend the next year at Mass General and Brigham and Women's, refining my interventional skills among world-class mentors. Outside of work, I enjoy skiing, cycling, and exploring the outdoors.

Samantha Espinosa



I was born and raised in sunny Orange County, California and grew up as a typical Californian playing water polo throughout school. Inspired by my parent's service in the Marine Corps, I was fortunate to secure an appointment for my undergraduate education at the United States Naval Academy in Annapolis, Maryland. I majored in Pure Mathematics and was selected to pursue a position in the Medical Corps. I attended medical school at The University of Chicago where I discovered a strong interest in health disparities research and public service. Subsequently, I completed internal medicine residency and general cardiology fellowship at Mayo Clinic Florida while finishing my Masters in Public Health through the University of North Florida. I matched at Brigham and Women's Hospital for my interventional cardiology fellowship and have stayed on for an additional advanced fellowship year in the combined CTO/CHIP program at both Brigham and MGH.

My clinical interests include complex coronary disease and I plan to pursue future research in coronary stent failure, CT-guided PCI, quality improvement and health initiatives at the intersection of interventional cardiology. Outside of work I enjoy exploring new restaurants and breweries, outdoor hikes with my husband, attending Sox and Boston area college sports games, and various crafting hobbies including amateur jewelry making.

Incoming Fellows

Muhammad Farooq



I am originally from a small, remote town in Pakistan, where I completed my early education. The path to advanced training in the United States was once a distant and uncertain aspiration, requiring sustained effort, resilience, and major personal and family sacrifice. After relocating to the U.S., I completed residency and cardiology training in New York, followed by interventional cardiology fellowship at Montefiore Medical Center. I am married and place a high value on family, which has remained central throughout this journey and continues to shape my perspective on medicine and life.

Outside the catheterization laboratory, I enjoy films, follow sports closely, and maintain a longstanding interest in perfumery, which provides balance beyond clinical practice.

Ayesha Khan



Dr. Ayesha Khan is originally from Pakistan, where she grew up and completed her medical school training at Riphah International University in Islamabad. She subsequently pursued further medical training in the United States, beginning as a research volunteer at the Icahn School of Medicine at Mount Sinai in New York.

Dr. Khan then moved to Texas, where she completed her internal medicine residency at the University of Texas Rio Grande Valley and served as Chief Resident in her final year. During residency, she was actively involved in projects focused on healthcare inequities and improving access to care.

She went on to complete her fellowship in cardiovascular medicine with dedicated training in interventional and structural cardiology at the University of Pennsylvania. She is currently pursuing advanced fellowship training in complex coronary and CTO interventions.

Dr. Khan's clinical passion centers on delivering high-quality, patient-centered cardiovascular care and advancing healthcare equity, with a particular focus on improving outcomes in her home country of Pakistan.

Outside of work, she enjoys reading, practicing yoga, and learning new languages.