



Atul Madan, M.D., MBA

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Summary of Expertise

I am board-certified in five specialties, including cardiovascular diseases and interventional cardiology. In my 21 years of cardiology practice, I have treated over 260,000 patients and performed over 11,000 procedures. I did my interventional cardiology fellowship at the Brigham and Women's Hospital, Harvard Medical School. I recently served as the Chairman of the Department of Cardiology at HCA Florida Osceola Hospital. Additionally, I am an Assistant Professor and Focused Inquiry and Research Experience (FIRE) research mentor at the University of Central Florida College of Medicine. I am actively involved in leadership, teaching, research, and peer-reviewed journal publications. I am certified as a Medical Doctor Expert Witness and Workers' Compensation Expert Medical Advisor, State of Florida. I hold an unrestricted license to practice medicine in the states of Florida and Georgia.

Medical Staff and Leadership Appointments

Medical Staff, Department of Cardiology

Advent Health, Orlando Health, and HCA Florida Hospital Systems

7/2005 – Present

Chairman, Department of Cardiology

HCA Florida Osceola Hospital, Kissimmee, Florida.

1/2022 – 12/2023. 2-year tenure.

Director, Cardiac Catheterization Laboratory

Orlando Health St. Cloud Hospital

12/2015-12/2017. 2-year tenure.

Medical Staff, Department of Cardiology

Huntington Hospital, Huntington, New York.

7/2004-6/2005.

Medical Director, Emergency Department and Community Clinic

Campbellton-Graceville Hospital, Graceville, Florida

7/1997-6/2000.

Academic Appointments

Assistant Professor of Internal Medicine

UCF College of Medicine (UCF-COM)

University of Central Florida, Orlando

3/2013 – Present

Medical Student Research Mentor

Focused Inquiry and Research Experience (FIRE) Program, UCF-COM.

University of Central Florida, Orlando.

9/2013 – Present.

Clinical Training

Interventional Cardiology Fellowship

Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts.

7/2003-6/2004.

Cardiovascular Disease Fellowship

SUNY-Downstate Medical Center, Brooklyn, New York.

7/2000-6/2003.

Internal Medicine Residency and Chief Residency

SUNY-Downstate Medical Center, Brooklyn, New York.

7/1993-6/1997.

Education

Bachelor of Medicine and Bachelor of Surgery (MBBS) and Internal Medicine Residency

All India Institute of Medical Sciences (AIIMS), New Delhi, India.

8/1985-6/1993.

Masters in Business Administration (MBA)

Troy State University, Dothan, Alabama.

7/1998-6/2000.

Board Certifications

Interventional Cardiology, American Board of Internal Medicine (ABIM) (2005, 2015)

Cardiovascular Diseases, ABIM (2004, 2014)

Internal Medicine, ABIM (1996, 2006)

American Society of Nuclear Cardiology (2005)

American Society of Echocardiography Boards (2003)

Certification in Internal Medicine, Cardiovascular Diseases, and Interventional Cardiology, National Board of Physicians and Surgeons (2024)

Licensure

Unrestricted license to practice medicine in Florida (ME72229) and Georgia (94717).

Certified Medical Doctor Expert Witness by the State of Florida (MEEW12002).

Certified Expert Medical Advisor, Florida Department of Financial Services, Division of Workers' Compensation (DWC Record No. 399843).

Awards/Accomplishments

President Honor's List (two consecutive years 1999 & 2000) and Outstanding Graduate Student Award, School of Business, Troy State University, Dothan, Alabama (6/2000)

ABC-Guidant Interventional Cardiology Fellowship Award, ABC annual meeting, Atlanta, Georgia. (3/2003)

Procedure Proficiency

Level II Transthoracic and Transesophageal Echocardiogram procedures

Level II Nuclear Cardiology procedures

Interventional Cardiology Procedures (ultrasound-guided trans-radial, femoral and transulnar artery cardiac catheterizations, coronary angiography, left ventriculography, peripheral angiography, percutaneous coronary balloon angioplasty & stenting, cutting balloon atherectomy, *Shockwave* coronary lithotripsy, thrombectomy, intravascular coronary ultrasound, fractional flow reserve, Intra aortic balloon pump, Impella ventricular assist devices, pulmonary artery hypertension studies and management of patients with Transcatheter Aortic Valve Replacement [TAVR], Transcatheter mitral and tricuspid valve Edge to Edge Repair, [TEER], Transcatheter Mitral Valve Replacement [TMVR] Tricuspid Valve replacement [TVR], Coronary Artery Bypass Surgery [CABG], cardiac transplant, left ventricular assist devices, ECMOs, CardioMEMS PA Sensor, Implantable loop recorder [ILR], Permanent Pacemaker [PPM], Implantable Cardioverter Defibrillator [ICD], Biventricular devices [BiV ICD, BiV PPM, CRT], Transcarotid Artery Revascularization [TCAR], Barostim, Left atrial appendage occluder devices [WATCHMAN, AMULET], atrial flutter/fibrillation and ventricular arrhythmias ablation, coronary artery laser therapy and aortic dissection & coronary perforation, cardiac tamponade, critical limb ischemia, peripheral artery interventions, and radiofrequency venous ablation procedures.

General Cardiology (consultative cardiology, lipid disorders, venous disease, peripheral artery disease, carotid & renal artery stenosis, hypertension, atrial fibrillation, ventricular tachycardias, stress testing, preoperative cardiac risk evaluation, holter & event monitors, transesophageal echocardiography, head up tilt table testing, aortic and mitral valve disorders, pericardial diseases, pulmonary embolism, pulmonary artery hypertension, cardiomyopathy, and congestive heart failure)

Anesthesia procedures (conscious and deep sedation certification), BLS, and ACLS Certification (valid till 2026).

Publications

1. Varudkar, NM, Emrani, H, Ebert SNand Madan, A (2012) Endothelial Dysfunction and Cardiovascular Disease: Critical Target for Cell-Based Therapies -Review Article. British Journal of Medicine and Medical Research, ISSN: 2231-0614, Vol.: 4, Issue.: 16 (01-10 June)
2. Madan, A and Schwartz, C (2004) Echocardiographic visualization of acute pulmonary embolus and thrombolysis in the ED. Case Report. Am J Emerg Med. 2004 Jul;22(4):294-00. doi:10.1016/j.ajem.2004.02.019.
3. Otah, K. E., Madan, A., Otah, E., Badero, O., Clark, L. T., & Salifu, M. O. (2004). The usefulness of an abnormal ankle-brachial index to predict the presence of coronary artery disease in African-Americans. *The American Journal of Cardiology*, 93(4), 481-483. <https://doi.org/10.1016/j.amjcard.2003.10.050>
4. Sun, T., McClanahan, A., & Madan, A. (PI). (2019) Assessing the Viability of Drone Technology in Combatting Out-of-Hospital Sudden Cardiac Arrest. Poster presentation, FIRE program, UCF COM, Orlando, Florida.

5. Sarmieto, F., Williams, R., Madan A. (2024) Spontaneous Coronary Artery Dissection (SCAD)— Unusual presentation of a rare disease. Poster presentation, FIRE program, UCF COM, Orlando, Florida.

Basic Sciences Experience

Research investigator, Laboratory of Molecular Immunology, National Institute of Allergy, Immunology and Infectious Diseases (NIAID) at NIH, Bethesda, MD (12/1994-1/1995).

Basic science researcher, working on DNA coding for RAB 3 enzyme at the Gastrointestinal Cell Biology Laboratory, Downstate Medical Center, Brooklyn, NY. (3/1995-5/1995)

Clinical Research Coordinator, Quantitative Coronary Angiography (QCA) Laboratory working on the in-stent restenosis involving left main bifurcation stenting at TIMI Study Group Core Lab, an academic research organization of Brigham & Women's Hospital, Harvard Medical School Boston, MA (7/2003-6/2004).

Teaching Assignments

Clinical Teaching Instructor, SUNY-Downstate Medical School, Brooklyn, New York (1996-97)

Harvard Medical Officer and Instructor, West Roxbury VA Medical Center and Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts (2003-2004).

Peer Review Presentations

Journal Club presentations

Internal Medicine Residency, Cardiology, and Interventional Cardiology Fellowships:

Subacute Bacterial Endocarditis 7/1993, Hypothermic injuries 9/1993, Pericardial diseases 9/1993, TIMI trials 3/1994, Opportunistic infections in AIDS patients 5/1994, Ventilator management 7/1994, Tamoxifen in Breast Cancer 10/1994, Autoimmune thyroiditis 1/1995, Allergic Rhinitis 3/1995, Adult vaccinations 7/1995, Screening Colonoscopy in high risk patients 9/1995, Lupus nephritis 11/1995, Resident call schedule and Bell Commission Guidelines 3/1996, Signal Average EKG 1/2001, ARVD 3/2001, Comprehensive pericardial disease therapy 5/2001, Update on Obesity drugs and their effect on cardiac structures 7/2001, Valvular heart disease- a review 9/2001, TIMI trial updates 9/2001, Takotsubo cardiomyopathy 11/2001, Peripartum Cardiomyopathy 1/2002, TAVI 3/2002, Syncope – a review 5/2002, Board review for fellows 9/2002, 3D and contrast echo 11/2002, Echo board review 1/2003, PET Scanning 3/2003, Physics of nuclear radioisotopes 5/2003, Rare cardiac tumors 6/2003, Unprotected Left Main Stenting 9/2003, QCA and its application in difficult interventions 11/2003, Intraventricular assist devices 1/2004, Complex peripheral interventions 3/2004, Compare and contrast second generation drug eluting stents 5/2004, Board review for Interventional Cardiology 6/2004, First transradial ST elevation MI

intervention in Central Florida (3/2011)

Research Presentations:

Board Review Course coordinator for medical residents, SUNY-Downstate (6/1995 to 6/1997).

Malaria in Kings County Hospital and New York City. Clinical Grand Round Presentation

(2/1997).

Pulmonary Osteitis Deformans (Paget's disease) – one of the few cases reported in the literature, Poster (3/1997).

The effect of Angiotensin receptor blockers (ARBs) on plasminogen activator inhibitor levels and antigen activity in African American hypertensives and comparisons with the controls: a prospective study (3/2001).

Yawning – An early sign of positive head-up tilt test (HUT), a retrospective study (3/2002).

Prevalence of anterior basal septal hypokinesia on stress echocardiography in patients with significant right coronary stenosis, a retrospective study (6/2001).

Is measurement of coagulation parameters necessary before cardiac catheterization – a retrospective study. (9/2001).

Effect of pravastatin on serum fibrinogen levels. An analytical study (3/2002).

Non-Bacterial Thrombotic Endocarditis and right ventricular mass in a patient with ovarian cancer – a case report (5/2002).

Brugada syndrome – a review (8/2002).

Signal averaged electrocardiogram – a predictor of Ventricular arrhythmia. (10/2002). Arrhythmogenic

Right Ventricular Cardiomyopathy – Role of cardiac MRI in making its diagnosis. (1/2003).

Assessing the Viability of Drone Technology in Combatting Out-of-Hospital Sudden Cardiac Arrest. (4/2019).

Spontaneous Coronary Artery Dissection (SCAD)—Unusual presentation of a rare disease. (3/2024).