

Curriculum Vitae

Melsjan Shkullaku, M.D., M.B.A.

Assistant Professor, University of Maryland School of Medicine

Structural Interventional Cardiology, Luminis Health

Structural Interventional Cardiology, Annapolis Heart LLC

Contact information

Address 129 Lubrano Dr
 Annapolis, MD 21401
 Office 443-607-2299
 Languages English, Albanian, Spanish

Education

2003-2007 Siena College, Loudonville, New York
 Bachelor of Science, Biology
 Magna Cum Laude
 2007-2011 Doctor of Medicine
 State University of New York, Upstate Medical University Syracuse, New York
 High Honors
 2013-2015 Master of Business Administration
 University System of Maryland
 University of Baltimore and Towson University MBA Program, AACSB
 Suma Cum Laude

Post Graduate training

2011-2014 Internal Medicine Residency
 University of Maryland Medical Center, Baltimore, Maryland
 Baltimore Veterans Affairs Medical Center, Baltimore, Maryland
 2015-2018 Cardiovascular Disease Fellowship
 University of Maryland Medical Center, Baltimore, Maryland
 Baltimore Veterans Affairs Medical Center, Baltimore, Maryland
 2018-2019 Interventional Cardiology Fellowship
 University of Maryland Medical Center, Baltimore, Maryland
 Baltimore Veterans Affairs Medical Center, Baltimore, Maryland
 2019-2020 Advanced Interventional and Structural Cardiology Fellowship
 University of Maryland Medical Center, Baltimore, Maryland
 Baltimore Veterans Affairs Medical Center, Baltimore, Maryland

Certifications

2014 Internal Medicine, American Board of Internal Medicine
 2017 National Board of Echocardiography
 Diplomate, Adult Comprehensive Echocardiography
 2018 Cardiovascular Disease

2019 American Board of Internal Medicine
Interventional Cardiology
American Board of Internal Medicine

Licensure

2014 Maryland State Licensed Physician and Surgeon, *Active*
2014 Maryland Controlled Dangerous Substances, *Active*
2014 Drug Enforcement Administration, *Active*
2022 Washington DC Licensed Physician and Surgeon, *Inactive*
2022 Washington DC Controlled Dangerous Substances, *Inactive*

Employment

2014-2015 Advanced Heart Failure and Cardiac Care Unit
Department of Medicine
University of Maryland Medical Center, Baltimore, Maryland
2020-2021 Structural Interventional Cardiology
Cardiovascular Medicine
Adventist HealthCare, White Oak Medical Center, Silver Spring,
Maryland
2021-current Structural Interventional Cardiology
Cardiovascular Medicine
University of Maryland, School of Medicine
University of Maryland Medical Center, Baltimore, Maryland
2023-current Annapolis Heart LLC
Cardiovascular Disease, Interventional and Structural Cardiology
Owner, Physician

Academic Appointments

2014-2015 Clinical Instructor, Department of Medicine
University of Maryland, School of Medicine, Baltimore, Maryland
2021-current Assistant Professor
Structural Interventional Cardiology, Cardiovascular Medicine
University of Maryland, School of Medicine, Baltimore, Maryland

Other Employment

2003-2004 Intern
New York State's Office of Attorney General
Intergovernmental Relations, Albany, New York
2004-2007 Patient Care Associate
Albany Medical Center, Albany, New York
Surgical Intensive Care Unit
2005-2007 Resident Assistant, Teacher Assistant
Siena College, Loudonville, New York
2005-2007 Biology Laboratory Assistant

Siena College, Loudonville, New York

Professional Societies

2020 Society of Cardiovascular Angiography & Interventions, Fellow
 2020 American College of Cardiology, Fellow

Clinical Expertise

Board certified structural interventional cardiologist with clinical focus on structural and valvular pathology.

Advanced Structural Interventional Cardiology dedicated fellowship training.

Board certified in cardiovascular disease, interventional cardiology, echocardiography and internal medicine.

Experience in advanced heart failure, advanced circulatory support, ECMO, pulmonary hypertension and inpatient cardiac ICU management.

Scope of Practice

2014-2015 Advanced Heart Failure Hospitalist, University of Maryland Medical Center
 Managed inpatient services in cardiology telemetry, IMC and CCU.
 Service included management of end stage, acute and chronic cardiovascular pathology, pulmonary hypertension, cardiac transplant, mechanical support, post-STEMI care and critical care.

2020-2021 Adventist Medical Group, Cardiovascular Consultants
 Outpatient primary cardiovascular disease care provider including interventional, structural and valve outpatient clinic. Duties included general/interventional/structural consultations, graphics (nuclear, echo, ECGs, peripheral studies).
 Inpatient cardiovascular service consultations for all services as above.
 Interventional and Structural Interventional Cardiology. Services included, but not limited to, STEMI, PCI, TAVR, TMVR, MitraClip, ASD/PFO closures, AAA repair, peripheral diagnostic and interventional studies.

2021-current University of Maryland School of Medicine
 University of Maryland Medical Center
 Interventional and Structural Cardiology. Services included, but not limited to, STEMI, PCI, TAVR, TMVR, MitraClip, ASD/PFO closures, management of advanced heart failure and management of mechanical cardiovascular support.
 Support complex PCI and ECMO program.

2023-current Annapolis Heart LLC
 Operating primary cardiovascular disease care, interventional, structural and valve clinic.
 Cardiovascular disease consult, imaging and interventional/structural cardiology service line development.
 Physician recruitment and business strategy development.

2023-current Luminis Healthcare
Interventional and Structural Interventional Cardiology
Support STEMI program

2023-current University of Maryland Medical System
University of Maryland Shore Regional Health
Interventional and Structural Cardiology.
Support STEMI program

Clinical Programs

2020-2021 Interventional Cardiology and Structural Cardiology Program
Adventist HealthCare
Participant in strategic planning in maintaining and growing the
Interventional and Structural program as the Adventist HealthCare
transitioned into a 4-hospital system from a single center.
Participant in White Oak Medical Center Chest pain program for ACC
chest pain accreditation.
Lead physician in developing STEMI triaging system for Fort Washington
Medical Center along with a OneCall call system for Adventist
HealthCare.

2021-current Interventional Cardiology and Structural Cardiology Program
University of Maryland Medical Center
Primary operator unifying structural heart intervention therapies (aortic,
mitral, tricuspid, septal defects, left atrial appendage, etc.) and
structural programs.
Support complex coronary intervention program (surgical turn down
patients, CTO PCI).

2023-current Annapolis Heart LLC/Anne Arundel Medical Center
Structural Heart Program
Develop new structural heart program.

Administrative and Institutional Services

2008-2009 Member, Admission Committee
School on Medicine
SUNY Upstate Medical University

2014-current Interviewer, Internal Medicine Residency Program
School of Medicine
University of Maryland

2020-2021 STEMI Committee, Medical Director
Adventist HealthCare, White Oak Medical Center
Silver Spring, Maryland

2021-current Interventional and Structural Heart Program
University of Maryland Medical Center
Baltimore, Maryland

Academic Clinical Services

2014-2015	Attending Physician Inpatient Cardiovascular Services/Advanced Heart Failure
2020-2021	Preceptor Interventional and Structural Cardiology Walter Reed National Military Medical Center Cardiovascular Disease Fellowship
2021-current	Attending Physician Structural and Interventional Cardiology Inpatient Cardiovascular Services University of Maryland, School of Medicine University of Maryland Medical Center Baltimore, Maryland
2021-current	Faculty University of Maryland, School of Medicine Cardiovascular Disease Curriculum
2024-current	Preceptor Physician Assistant's, Master's Program University of Maryland, School of Graduate Studies University of Maryland Medical Center Baltimore, Maryland

Teaching Awards

2023	Faculty Physician of the Year Award In Honor of Dr. Gary Plotnick
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Hospital Affiliations

2011-current	University of Maryland Medical Center
2021-current	University of Maryland, Baltimore Washington Medical Center
2023-current	University of Maryland, Shore Medical Center at Easton
2023-current	Luminis Healthcare, Anne Arundel Medical Center
2020-2021	Adventist HealthCare White Oak Medical Center
2020-2021	Adventist HealthCare Shady Grove Medical Center
2020-2021	Adventist HealthCare Fort Washington Medical Center
2021-2023	University of Maryland, Midtown Campus
2021-2023	Carroll Hospital, LifeBridge Health

Clinical Trials

2020-2021	PACIFIC-AMI , sub-principal investigator
2022-2023	ALIGN-AR Pivotal Trial, sub-principal investigator
2022-2023	TRISCEND II Pivotal Trial, sub-principal investigator
2022-2023	MedAlliance Soluton ISR IDE, principal investigator
2026-current	Cardiosense Wearable Echo, principal investigator

Publications

- 2014 Safety of Computed Tomography Imaging in Patients with Cardiac Rhythm Management Devices: Assessment of the FDA Advisory in Real-World Practice.
Hussein, A., Abutaleb, A., Jeudy, J., Phelan, T., Patel, R., Shkullaku, M., Siddiqi, F., See, V., Saliaris, A., Shorofsky, S. R., & Dickfeld, T. (2014). *Journal of the American College of Cardiology*, 63(12_Supplement), A1165. doi.org (PMID: 24583299)
- 2016 Biventricular metastatic invasion from cervical squamous cell carcinoma.
Kapoor, K., Evans, M. C., Shkullaku, M., Schillinger, R., White, C. S., & Roque, D. M. (2016). *BMJ Case Reports*, 2016, bcr2016215612. doi.org (PMID: 27371746)
- 2017 Very Late Pathological Responses to Cobalt–Chromium Everolimus-Eluting, Stainless Steel Sirolimus-Eluting, and Cobalt–Chromium Bare Metal Stents in Humans.
Mori, H., Atmakuri, D. R., Torii, S., Braumann, R., Smith, S., Jinnouchi, H., Gupta, A., Harari, E., Shkullaku, M., Kutys, R., Fowler, D., Romero, M., Virmani, R., & Finn, A. V. (2017). *Journal of the American Heart Association*, 6(11), e007244. doi.org (PMID: 29150493)
- 2020 A Rare ST-Elevation Myocardial Infarction Mimic or a True Event?
Ahmed, T., & Shkullaku, M. (2020). *Cureus*, 12(4), e7742. doi.org (PMID: 32391218)
- 2020 Extensive coil embolization of a giant coronary artery aneurysm in an octogenarian: A case report.
Ahmed, T., Chahal, D., Shkullaku, M., & Gupta, A. (2020). *European Heart Journal - Case Reports*, 4(3), 1–5. doi.org (PMID: 32617506)
- 2020 Triple Valve Replacement in a Patient with Severe Combined Aortic and Mitral Stenosis.
Ahmed, T., Shkullaku, M., Chahal, D., Dawood, M., & Gupta, A. (2020). *Cureus*, 12(3), e7389. doi.org (PMID: 32337136)
- 2023 A Temporal Evaluation and Comparison of Hospitalization Costs of Transcatheter Aortic Valve Replacement and Surgical Aortic Valve Replacement from 2016 to 2020.
Na, J., Childress, J., Sokolow, M., Han, P., Norcross, G., Fitch, J., Davis, I., Welch, I., Moon, J., Shah, K., Bazarbashi, N., Clark, K., Alfaraidhy, M., Amir, R., Chen, K., Allam, S., Hossain, S., Abraham, M., Khan, Z., Patel, S., Park, J. E., Bang, V., Shkullaku, M., Chahal, D., & Gupta, A. (2022). *Journal of the American College of Cardiology*, 79(9_Supplement), 907. doi.org
- 2023 First-in-Human Endovascular Aortic Root Repair (Endo-Bentall) for Acute Type A Dissection.

Ghoreishi, M., Chahal, D., Shah, A., Kang, J., Hirsch, J., Tran, D., McCloskey, D., Shkullaku, M., Gupta, A., Strauss, E. R., Dahi, S., Taylor, B. S., & Toursavadkahi, S. (2023).

Circulation: Cardiovascular Interventions, 16(10), e013348. doi.org (PMID: 37737022)

- 2026 Acute Hypoxemic Respiratory Failure Following Mitral Transcatheter Edge-to-Edge Repair: The Role of Aortic Stenosis
Sonbol, M., MD, Bennett, S., MD, Pu, A., MD, Annabathula, R., MD, Chahal, D., MD, Aalaei-Andabili, SH., MD, Gupta, A., MD, Shkullaku, M., MD, Vesely, M., MD, Benitez, M., MD, Strauss, E., MD, Mysore, M., MD, Allaham H., MD

In Review

- 2026 Outcomes of Mitral Transcatheter Edge-to-Edge Repair in Severe Left Ventricular Dysfunction: A Systematic Review and Meta-Analysis
Allaham, H., MD, Taballat R., MD, Alhaddad, I., MD, Hamoudeh, A., MD, Kabubji, A., MD, Herzallah, A., MD, Alaaie, H., MD, Shkullaku, M., MD, Chahal, D., MD, Gupta, A., MD

In Review

Abstracts

- 2012 Evaluation of FDA Advisory Regarding Interaction of Computed Tomography with Cardiac Pacemakers and Implanted Defibrillators. Timothy P. Phelan, Ameer Abutaleb, Ronak Patel, Melsjan Shkullaku, Faisal Siddiqi, Robert W. Peters, Anastasios Saliaris, Vincent Y. See, Stephen R. Shorofsky, Timm-Michael Dickfeld. Baltimore VA Medical Center, Baltimore, MD
Heart Rhythm Society, 33rd Annual Scientific Sessions. Boston, Massachusetts.
- 2012 Protein-losing Enteropathy: The First Manifestation of Gastrointestinal Tract Kaposi Sarcoma.
Shkullaku M, Ganesan R.
University of Maryland School of Medicine and VA Medical Center, Baltimore, Maryland, American College of Physicians Maryland Regional Annual Associates Meeting
- 2012 Pheochromocytoma-Associated Takotsubo Cardiomyopathy.
Ganesan R, Shkullaku M.
University of Maryland School of Medicine and VA Medical Center, Baltimore, Maryland, American College of Physicians Maryland Regional Annual Associates Meeting
- 2013 Myocarditis, Conduction Abnormalities and Heart Failure in Lyme Disease.
Shkullaku M, Siddique N.
University of Maryland School of Medicine and VA Medical Center, Baltimore, Maryland, American College of Physicians Maryland Regional Annual Associates Meeting

- 2013 Spontaneous LAD Dissection in a 32-year-old Marathon Runner.
Siddique N, Shkullaku M.
University of Maryland School of Medicine and VA Medical Center,
Baltimore, Maryland, American College of Physicians Maryland Regional
Annual Associates Meeting
- 2019 Management of Refractory Cardiogenic Shock with VA-ECMO Support
Enabling Complex Percutaneous Coronary Interventions
Talha Ahmed, Melsjan Shkullaku, Diljon Chahal, Ronson, Madathil, Anuj
Gupta
University of Maryland School of Medicine, Baltimore, Maryland
TCT 2019
- 2020 Successful Coiling of Massive Coronary Artery Aneurysm.
Talha Ahmed, Diljon Chahal, Melsjan Shkullaku, Anuj Gupta
University of Maryland Midtown Campus, Baltimore, Maryland
ACC 2020
- 2020 Diagnosis and Treatment of Spontaneous Coronary Artery Dissection
with OCT.
Haytham Allaham, Varun Maheshwari, Melsjan Shkullaku, Diljon
Chahal, Jeremiah Pasion, Alope Finn
University of Maryland Midtown Campus, Baltimore, Maryland
SCAI 2020

Notable Presentations

- 2014 Patient Protection and Affordable Care Act: Review of Evidence for
Health Care Expansion and an Economic Perspective.
Shkullaku, Melsjan, MD.
Senior Conference, University of Maryland Medical Center, Baltimore,
Maryland
- 2015 Prosthetic Valve Complications and Management.
Shkullaku, Melsjan, MD.
Cardiovascular Medicine Clinical Conference, University of Maryland
Medical Center, Baltimore, Maryland
- 2018-current Lecturer
Structural Interventional Fellowship Curriculum
University of Maryland, School of Medicine
- 2018-current Lecturer
Structural Interventional Case Review
University of Maryland, School of Medicine
- 2022-Current University of Maryland, School of Medicine
Cardiovascular Disease Series
- 2023-current Lecturer
Structural Interventional Cardiology
Cardiovascular Medicine
Continued Medical Education

2025

Valve Replacement, Complex PCI, Circulatory Support, Morbidity and
Mortality Review

Anne Arundel Medical Center, Luminis Health

Presenter

2025 POCUS Inovators Forum