
Nader Makki, MD

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https://www.researchgate.net/profile/Nader_Makki

Education

M.D.: Medicine 2011

American University of Beirut Medical School - Bliss Street, Beirut

- Top 10 % of class
- Recipient of Alpha Omega Alpha

Bachelor of Science: Biology 2007

American University of Beirut - Bliss Street, Beirut

- Top 10% of class

Professional Training

Fellowship in Interventional Cardiology 07/2017 to Present

Ohio State Wexner Medical Center – Columbus, Ohio

Anticipated completion date: August 2018

Fellowship in Cardiovascular Medicine 07/2014 to 06/2017

Ohio State Wexner Medical Center – Columbus, Ohio

Residency in Internal Medicine, 07/2011 to 07/2014

University of Iowa Hospitals and Clinics – Iowa City, Iowa

Certifications

- Alliance for Physician Certification & Advancement – Registered Physician Vascular Interpretation, 06/2016
- Certification Board of Nuclear Cardiology, 04/2017

Licensure

Ohio – Training Medical License, 06/2014 to Present

Professional Organizations

- Fellow In training American College of Cardiology Council - Ohio Chapter 2016 to 2017
- Member of the American Medical Association 2013 to Present
- Member of the American Heart Association 2012 to Present
- Member of the American College of Physicians 2011 to Present
- Member of Alpha Omega Alpha Society 2011 to Present

Honors and Awards

- ACC travel award for ACC legislative conference 2016
- Internal medicine Resident Research Award 2014
- Alpha Omega Alpha 2011
- Dean's Honor List 2004 – 2010

Research Experience

- **Currently a co-investigator of an IRB approved project at Ohio State University titled:**
“Comparison of Cardiac Magnetic Resonance Imaging to Endomyocardial Biopsy in Diagnosis of Myocarditis.” This project is aimed at evaluating retrospectively patients admitted with suspicion of myocarditis who underwent EMB and CMR as well to determine if there is any correlation between CMR parameters (ECV, T2 mapping, T1 mapping and LGE) and degree of inflammation on EMG. It has already been approved and we are in data collection process.
- **Currently a co-investigator of an IRB approved project at Ohio State University titled:**
“Left Ventricular Diastolic Filling Slope as a Predictor of Aortic Insufficiency.” This project is aimed at retrospectively reviewing all patients referred to Ohio State Wexner Medical Center during a 5-year period (January 2012 and January 2017) for coronary angiography or Transcatheter aortic valve replacement (TAVR). The first step of our project is a quality control evaluation where we will compare the LV diastolic filling slopes performed between patients with severe aortic insufficiency (AI) referred for angiography prior to surgery and control patients: (1) patients referred for angiography without native aortic valve disease; (2) patients with moderate aortic valve disease. The second step involves reviewing retrospectively cases of patients who underwent TAVR between January 2012 and January 2017 from an existing database.
- **Basic science researcher** in the lab of Dr. Francis Miller, at University of Iowa Hospital: I worked in Dr. Miller's lab from 2012-2014. My research focus was delineating the role of EGFR like ligands on smooth muscle proliferation and relation to NADPH oxidase (Nox-1 and Nox-4). I have experience with western blot, Enzyme linked immunoassays -ELISA, cell culture techniques and smooth muscle proliferation assays (mainly thymidine uptake assays). I also have experience with performing minor surgeries on mice (carotid ligation and pump implantation) in addition to dissecting and harvesting of carotids and aorta. I am also familiar with tissue handling (paraffin embedding), sectioning and staining.

Publications

Publications – Peer Reviewed Articles

- **Makki N**, Dollery J, Jones D, Crestanello J, Lilly S. Conduction disturbances after TAVR: Electrophysiological studies and pacemaker dependency. *Cardiovasc Revasc Med*. 2017 Mar 15.
- Stiver K, Gao X, Shreenivas S, Boudoulas KD, Mazzaferri E, **Makki N**, Lilly SM. Complete Versus Incomplete Angiography Prior to Percutaneous Coronary Intervention in ST-Elevation Myocardial Infarction. . *J Invasive Cardiol*. 2017 Mar 15.
- Essa E, **Makki N**, Bittenbender P, Capers Q 4th, George B, Rushing G, Crestanello J, Boudoulas KD, Lilly SM. Vascular Assessment for Transcatheter Aortic Valve Replacement: Intravascular Ultrasound Compared With Computed Tomography. . *J Invasive Cardiol*. 2016 Dec; 28(12):E172-E178.
- Nkechinyere Ijioma MBBS, **Nader Makki MD**, Jennifer Dickerson MD. The role of CMR in the assessment and prognosis of stable CAD. Case report accepted to ACC.org as part of online patient quizzes
- Hirai T, Chen Z, Zhang L, Baaj S, Kovarnik T, Porcaro K, Kaminski J, Hawn S, Agrawal A, **Makki N**, Downe R, Wahle A, Sonka M, Lopez JJ. Evaluation of Variable Thin-Cap Fibroatheroma Definitions and Association of Virtual Histology Intravascular Ultrasound Findings With Cavity Rupture Size. *Am J Cardiol*. 2016 Jul 15; 118 (2):162-9.
- **Makki N**, Mesubi O, Steyers C, Olshansky B, Abraham WT. Meta-Analysis of the Relation of Ventricular Arrhythmias to All-Cause Mortality After Implantation of a Left Ventricular Assist Device. *M Am J Cardiol*. 2015 Nov 1; 116 (9):1385-90.
- Schlichting JA, Mengeling MA, **Makki N**, Malhotra A, Halfdanarson TR, Klutts JS, Levy BT, Kaboli PJ, Charlton ME. Veterans' Continued Participation in an Annual Fecal Immunochemical Test Mailing Program for Colorectal Cancer Screening. *S. J Am Board Fam Med*. 2015 Jul-Aug; 28 (4):494-7. doi: 10.3122/jabfm.2015.04.140241.
- **Makki N**, Brennan TM, Girotra S. Acute coronary syndrome. *J Intensive Care Med*. 2015 May; 30 (4):186-200.
- Hirai T, Cotseones G, **Makki N**, Agrawal A, Wilber DJ, Barron JT. Usefulness of left ventricular diastolic function to predict recurrence of atrial fibrillation in patients with preserved left ventricular systolic function. *Am J Cardiol*. 2014 Jul 1; 114 (1):65-9.
- Charlton ME, Mengeling MA, Halfdanarson TR, **Makki N**, Malhotra A, Klutts JS, Levy BT, Kaboli PJ. Evaluation of a home-based colorectal cancer screening intervention in a rural state. *J Rural Health*. 2014 Summer; 30 (3):322-32.
- Karrowni W, Dhaliwal A, **Makki N**, Dughman S, Blevins A, Cram P, Horwitz P. Single versus double stenting for unprotected left main coronary artery bifurcation lesions: a systematic review and meta-analysis. *K. J Invasive Cardiol*. 2014 Jun; 26 (6):229-33.
- **Makki N**, Dughman S, Blevins A, Cram P, Horwitz P. A Systematic Review and Meta-analysis of Ostial and Trunk versus Distal Lesions in Unprotected Left Main Coronary Artery Stenting. *International Journal of Angiology*. 2014 Jun; Publication Status: Published
- **Makki N**, Blevins A, Chatterjee K. Treatment Approaches to Diastolic Heart Failure: Systematic Review and Meta-Analysis. *International Journal of Angiology*. 2014 Jun; Publication Status: Published
- Suneja M, **Makki N**, Kuppachi S. Essential hypernatremia: evidence of reset osmostat in the absence of demonstrable hypothalamic lesions. *Am J Med Sci*. 2014 Apr; 347(4):341-2.
- Hirai T, **Makki N**, Barton H, Winterfield J, MD. Cardiac Effects of Bortezomib Therapy in a Case of AL Amyloidosis Presenting with Bradycardia and Heart Failure. *The Journal of Innovations in Cardiac Rhythm*, 5 (2014), 1861– 1868.
- Schlichting JA, Mengeling MA, **Makki NM**, Malhotra A, Halfdanarson TR, Klutts JS, Levy BT, Kaboli PJ, Charlton ME. Increasing colorectal cancer screening in an overdue population: participation and cost impacts of adding telephone calls to a FIT mailing program. *J Community Health*. 2014 Apr; 39 (2):239-47.
- **Makki N**, Swaminathan PD, Hanmer J, Olshansky B. Do implantable cardioverter defibrillators improve survival in patients with chronic kidney disease at high risk of sudden cardiac death? A meta-analysis of observational studies. *Europace*. 2014 Jan; 16 (1):55-62.

- **Makki N**, Thiel KW, Miller FJ Jr. The epidermal growth factor receptor and its ligands in cardiovascular disease. *Int J Mol Sci*. 2013 Oct 15; 14 (10):20597-613.
- **Makki N**, Swaminathan PD, Olshansky B. Does cardiac resynchronization therapy benefit patients with ischemic and non-ischemic cardiomyopathy similarly? *Int J Cardiol*. 2013 Oct 9; 168 (4):4378-80. doi: 10.1016/j.ijcard.2013.05.052. Epub 2013 May 24. No abstract available.
- **Makki N**, Hajj G, Schmidt GA. Seizure-induced acute urate nephropathy: case report and review *Chest*. 2013 Aug; 144 (2):666-9.
- **Makki N**, Karrowni W. Does Testosterone Therapy Increase Risk of Cardiovascular Event Among Men? A Meta-Analysis. *Cardiology and Angiology*. Publication Status: In- press.

Published Abstracts

- Karrowni W, Dhaliwal A, **Makki N**, Dughman S, Blevins A, Cram P, Horwitz P. A Systematic Review and Metaanalysis of Ostial and Trunk versus Distal Lesions in Unprotected Left Main Coronary Artery Stenting. *J Am Coll Cardiol* (published TCT meeting abstract). 2012 Oct; 60(17 supplement): B203.
- Karrowni W, **Makki N**, Dhaliwal A, Dughman S, Blevins A, Cram P, Horwitz P. Single Versus Double Stenting for the Left Main Coronary Bifurcation: A Systematic Review and Meta-Analysis. *J Am Coll Cardiol* (published TCT meeting abstract). 2012 Oct; 60(17 supplement)
- **Makki N.**, Dominic Swaminathan P., Clancy J. Lead Extractions Do Not Increase Morbidity or Lead Malfunction Compared to Lead Abandonment- a Meta-analysis. *Heart Rhythm Journal* (published meeting abstract). 2013 May; Lecture ID: 9772.
- **Makki, N.**, Dominic Swaminathan, P., Olshansky, B. Implantable Cardioverter Defibrillators Reduce Mortality in Patients with Chronic Kidney Disease: A Meta-Analysis. *Circulation* (published meeting abstract). 2012 Nov; 126(A13732): A13732. Publication Status: Published.
- **Makki, N.**, Dominic Swaminathan, P., Olshansky, B. Is There Any Difference in Benefit from Cardiac Resynchronization Therapy in Ischemic versus Non-ischemic Cardiomyopathy? Poster presented at: American Heart Association meeting 2012; Los Angeles, CA.
- **Makki N**, Heller E, Karrowni W, Jiang S, Takapoo M, Schickling B, Stanic B, Johnson F, Miller F. EGF-like Ligands Contribute to Neointimal Formation via Nox1-mediated SMC Growth. Poster presented at: American Heart Association meeting 2013; Dallas, TX
- Charlton M, Mengeling M, **Makki N**, Halfdanarson T, Malhotra A, Klutts S, Levy B, Kaboli P. Annual fecal immunochemical test mailing program for colorectal cancer screening: Rate of return in year 2. *Journal of American Public health* (published APHA meeting abstract). 2013 Nov; abstract # 283015.
- Dominic Swaminathan P, **Makki N**, Rangasamy S, Prasath A, Clancy J, Marieb M. Should Routine DFT Testing Be Performed At Device Implant? Results from a Meta-analysis. *Circulation* (published meeting abstract) 2013; 128:A16717. Publication Status: Published
- **Makki N**, Heller E, Karrowni W, Jiang S, Takapoo M, Schickling B, Stanic B, Johnson F, Miller F. EGF-like Ligands Contribute to Neointimal Formation via Nox1-mediated SMC Growth. *Circulation* (published meeting abstract) 2013; 128:A15916. Publication Status:
- Prasath A, Kalamkar P, **Makki N**, Dominic Swaminathan P, Akar J, Clancy J. Transvenous Cardioverter Defibrillator System Have Lower Defibrillation Thresholds and Impedances Compared to Single Coil Systems: A Meta-analysis. *Circulation* (published meeting abstract) 2013; 128:A16532. Publication Status: Published
- **Nader Makki**- CV November 12, 2015 Prasath A, Kalamkar P, Makki N, Dominic Swaminathan P, Akar J, Clancy J. Dabigatran is as safe as Warfarin for peri-procedural anticoagulation in Atrial Fibrillation Ablation: A Meta-analysis. *Circulation* (published meeting abstract) 2013; 128:A16656.
- **Makki N**, Mesubi O, Steyers C, Olshansky B. Ventricular Arrhythmias and Mortality after Left Ventricular Assist Devices Implantation: A Meta-Analysis. *Circulation* (published meeting abstract) 2014; 130: A12518. Publication Status: Published.
- **Makki N**, Karrowni W. Does Testosterone Therapy Increase Risk of Cardiovascular Event Among Men? A Meta- Analysis. *Circulation* (published meeting abstract) 2014; 130: A969. Publication Status: Published.

- Hirai T, **Makki N**, Barton H, Winterfield J, MD. Cardiac Effects of Bortezomib Therapy in a Case of AL Amyloidosis Presenting with Bradycardia and Heart Failure. Heart Rythm Journal (published meeting abstract). 2013 May; Lecture ID: 4941. Publication Status: Published

Poster Presentations

- Karrowni, W., **Makki, N.**, Dhaliwal, A., Horwitz, P. Makki, N. (2012). Single Versus Double Stenting for Left Main Coronary Bifurcation: A Systematic Review and Meta-Analysis. Poster presented at: Transcatheter Cardiovascular Therapeutics (TCT) meeting 2012; Miami, FL.
- Karrowni, W., Dhaliwal, A., **Makki, N.**, Horwitz, P. Karrowni W. (2012). A Systematic Review and Meta-analysis of Ostial and Trunk versus Distal Lesions in unprotected Left Main Coronary Artery Stenting. Poster presented at: Transcatheter Cardiovascular Therapeutics (TCT) meeting 2012; Miami, FL.
- **Makki, N.**, Dominic Swaminathan, P., Olshansky, B. Is There Any Difference in Benefit from Cardiac Resynchronization Therapy in Ischemic versus Non-ischemic Cardiomyopathy? Poster presented at: American Heart Association meeting 2012; Los Angeles, CA.
- **Makki N**, Heller E, Karrowni W, Jiang S, Takapoo M, Schickling B, Stanic B, Johnson F, Miller F. EGF-like Ligands Contribute to Neointimal Formation via Nox1-mediated SMC Growth. Poster presented at: American Heart Association meeting 2013; Dallas, TX.
- **Makki N**, Karrowni W. Does Testosterone Therapy Increase Risk of Cardiovascular Event Among Men? A Meta- Analysis. Poster presented at: American Heart Association meeting 2014; Chicago, IL
- **Makki N**, Mesubi O, Steyers C, Olshansky B. Ventricular Arrhythmias and Mortality After Left Ventricular Assist Devices Implantation: A Meta-Analysis. Poster presented at: American Heart Association meeting 2014; Chicago, IL

Oral Presentations

- **Makki, N.**, Dominic Swaminathan, P., Clancy, J. (2013). Lead Extractions Do Not Increase Morbidity or Lead Malfunction Compared to Lead Abandonment- a Meta-analysis. Oral Presentation at: Heart Rythm Society meeting 2013; Denver, CO.
- **Makki, N.**, Dominic Swaminathan, P., Olshansky, B. (2012). Does ICD Affect All-cause Mortality in High Risk Patients with CKD? Oral Presentation at: American Heart Association meeting 2012; Los Angeles, CA.

Extracurricular Activities

- Swimming
- Travelling

Languages

- English
- Arabic
- Persian

Visa Status

- I am eligible for H1-B Visa
- I filed green card application and it is currently pending

Skills

- Medical research comprehension
- Familiar with a number of statistical software (SPSS, SAS)
- Level II in echo, nuclear and vascular modalities
- Board certified in performing/ interpreting nuclear studies and vascular studies
- Strong interpersonal skills