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Summary of Qualifications

Board-certified interventional cardiologist with over 25 years of clinical, research, and teaching experience in academic cardiology. Proven leader with a track record in program development, clinical research, and medical education. Experienced in leading multidisciplinary teams and driving quality initiatives. Current member of the ABIM Interventional Cardiology Longitudinal Knowledge Assessment Approval Committee. Strong commitment to health equity and excellence in patient care.

Leadership Highlights

- Chair of Cardiology, NYC Health + Hospitals / Elmhurst (2026-present)
- Director of SUNY Downstate's Interventional Cardiology program (2003-2026)
- Led clinical and research programs, including NIH and industry-funded clinical trials
- Chief of Cardiology at SUNY Downstate (2016–2021)
- ABIM Interventional Cardiology Longitudinal Knowledge Assessment Approval Committee Member
- Former Editorial Board Member for multiple cardiology journals

Certifications

American Board Re-Certification in Interventional Cardiology, April 2018

American Board Re-Certification in Interventional Cardiology, November 2010

FACP- Fellow of the American College of Physicians, October 2010

Certification Board of Cardiovascular Computed Tomography, December 2008

American Board Certification in Interventional Cardiology, November 2000

FACC- Fellow of the American College of Cardiology, February 1995

American Board Certification in Cardiology, March 1990

Certificate of Competence in Cardiology, Royal College of Physicians of Canada, November

1988

FRCP- Fellow of the Royal College of Physicians and Surgeons of Canada, Specialist in Internal Medicine, June 1987

Diplomat of the American Board of Internal Medicine, January 1987

Diplomat of the National Board of Medical Examiners (USA), July 1983

Licentiate of the Medical Council of Canada, June 1982

MD: Laval University (Quebec City, Canada), May 1982

Appointments

September 2026-present: Co-Chair of NYC Health + Hospitals Cardiology Council

February 2026-present: Chair of Cardiology, NYC Health + Hospitals / Elmhurst

February 2026-present: Professor Emeritus, State University of New York (SUNY) Downstate Health Sciences University

2024-present: ABIM (American Board of Internal Medicine) Interventional Cardiology Longitudinal Knowledge Assessment Approval Committee

July 2022-July 2024: ABIM (American Board of Internal Medicine) Interventional Cardiology Item Writing Task Force Member

June 2016- July 2021: Chief of Cardiology, State University of New York Health Science Center at Brooklyn, NY

June 2015- June 2016 : Interim Chief of Cardiology, State University of New York Health Science Center at Brooklyn, NY

July 2010-Sept 2018: Editorial Board of the Journal Cardiology (Karger)

March 2007- June 2011: Editorial Board of the Journal of Invasive Cardiology

September 2005-present: Professor of Medicine, State University of New York Health Science Center at Brooklyn, NY

June 2005-2015: Research Core Director for NIH-sponsored Brooklyn Center for Health Disparities

April 2004-2010: Director of Clinical Research, Center for Cardiovascular and Muscle Research (CCMR), State University of New York at Brooklyn, NY

May 2003-present: Active Attending, Kings County Hospital Center, Brooklyn, NY

January 2003-Feb 2026: Director of Interventional Cardiology, State University of New York Health Science Center at Brooklyn, NY

January 2003- 2005: Editorial Board of the Journal of Cardiovascular Revascularization Medicine

January 2003-Sept 2005: Associate Professor of Medicine, State University of New York Health Science Center at Brooklyn, NY

July 2001-2005: Editorial Board of the Journal of the American College of Cardiology

January 1994-Dec 2002: Assistant Professor of Medicine, Attending Interventional Cardiologist, Mt. Sinai School of Medicine, NY

July 1992-Dec 1993: Instructor in Medicine, Mt. Sinai School of Medicine, NY

July 1988-June 1992: Cardiology Research Fellow and Coronary Angioplasty Fellow, Mount Sinai Medical Center, NY

July 1986-June 1988: Clinical Cardiology Fellow: St. Michael's Hospital and Mount Sinai

Hospital, University of Toronto, Canada

July 1983-June 1986: Internal Medicine Resident: Montreal General Hospital, McGill University, Canada

July 1982-June 1983: Intern: Queen Elizabeth Hospital, McGill University, Canada

Awards

July 1997: Preceptor to recipient of the American College of Cardiology/Merck Adult Cardiology Research Fellowship Award for 1997-98

June 1995: NIH General Clinical Research Center Award (Principal Investigator for Cardiovascular Project)

June 1994: NIH Clinical Investigator Development Award (KO8 HL03210-01)

June 1992: Denver Research Award for Excellence in Cardiovascular Research

March 1992: American College of Cardiology, New York State Chapter Young Investigators Honorable Mention Award

October 1990: Mt. Sinai Hosp., NY, Annual Research Day Award

June 1990: Medical Research Council of Canada Fellowship Award

July 1988: Canadian Heart and Stroke Foundation Research Fellowship Award

May 1987: Ursula Bangs Research Competition Award, University of Toronto

Publications

Total Citations: 9,129; H-Index: 49; i10-Index: 117 (Google Scholar)

Original Articles

Nso N, Emmanuel K, Nassar M, Bhargal R, Enoru S, Iluyomade A, Marmur JD, Ilonze OJ, Thambidorai S, Ayinde H. Impact of new-onset versus pre-existing atrial fibrillation on outcomes after transcatheter aortic valve replacement/implantation. *Int J Cardiol Heart Vasc.* 2022 Jan 17;38:100910. doi: 10.1016/j.ijcha.2021.100910. PMID: 35146118; PMCID: PMC8802123.

Sharma A, Lavie CJ, Elmariah S, Borer JS, Sharma SK, Vemulapalli S, Yerokun BA, Li Z, Matsouaka RA, Marmur JD. Relationship of Body Mass Index With Outcomes After Transcatheter Aortic Valve Replacement: Results From the National Cardiovascular Data-STS/ACC TVT Registry. *Mayo Clin Proc.* 2020 Jan;95(1):57-68. doi: 10.1016/j.mayocp.2019.09.027. PMID: 31902429.

Cavusoglu E, Kassotis JT, Anwar A, Marmur JD, Hussain SW, Yanamadala S, Hegde S, Parpas A, Eng C, Zhang M. Usefulness of Complement C1q to Predict 10-Year Mortality in Men With Diabetes Mellitus Referred for Coronary Angiography. *Am J Cardiol.* 2018 Jul 1;122(1):33-38. doi: 10.1016/j.amjcard.2018.03.008. Epub 2018 Mar 28.

Sharma A, Hai O, Garg A, Vallakati A, Lavie CJ, Marmur JD. Duration of Dual Antiplatelet Therapy Following Drug-Eluting Stent Implantation: A Systematic Review and Meta-analysis of

Randomized Controlled Trials. *Curr Probl Cardiol*. 2017 Dec;42(12):404-417. doi: 10.1016/j.cpcardiol.2017.04.001. Epub 2017 Apr 16

Cavusoglu E, Kassotis JT, Marmur JD, Banerji MA, Yanamadala S, Chopra V, Anwar A, Eng C. Usefulness of Plasma Tissue Inhibitor of Matrix Metalloproteinase-4 to Predict Death and Myocardial Infarction in Patients With Diabetes Mellitus Referred for Coronary Angiography. *Am J Cardiol*. 2017 Jul 1;120(1):1-7. doi: 10.1016/j.amjcard.2017.03.267. Epub 2017 Apr 12

Sharma N, Lee J, Aponte CS, Marmur JD, Lawson WE, Mann NN, Salifu MO, Youssef I, McFarlane SI. Clinical Characteristics and Angiographic Findings of Acute Myocardial Infarction Associated With Marijuana Use: Consecutive Case Series. *Scifed J Cardiol*. 2017;2(1). pii: 1000011. Epub 2017 Nov 22.

Sharma A, Helft G, Garg A, Agrawal S, Chatterjee S, Lavie CJ, Goel S, Mukherjee D, Marmur JD. Safety and efficacy of vorapaxar in secondary prevention of atherosclerotic disease: A meta-analysis of randomized control trials. *Int J Cardiol*. 2017 Jan 15;227:617-624. doi: 10.1016/j.ijcard.2016.10.088. Epub 2016 Oct 29.

Sharma A, Sharma SK, Vallakati A, Garg A, Lavie CJ, Mukherjee D, Marmur JD. Duration of dual antiplatelet therapy after various drug-eluting stent implantation. *Int J Cardiol*. 2016 Jul 15;215:157-66

Sharma A, Lavie CJ, Helft G, Chatterjee S, Goel S, Garg A, Mukherjee D, Marmur JD. Role of Vorapaxar After Coronary Revascularization. *Am J Cardiol*. 2016;117:1059-64.

Cavusoglu E, Marmur JD, Kassotis JT, Yanamadala S, Chopra V, Eng C. Usefulness of Plasma Matrix Metalloproteinase-3 Levels to Predict Myocardial Infarction in Men With and Without Acute Coronary Syndrome. *Am J Cardiol*. 2016;117:881-6.

Cavusoglu E, Marmur JD, Yanamadala S, Chopra V, Hegde S, Nazli A, Singh KP, Zhang M, Eng C. Elevated baseline plasma IL-8 levels are an independent predictor of long-term all-cause mortality in patients with acute coronary syndrome. *Atherosclerosis*. 2015;242:589-94.

Cavusoglu E, Marmur JD, Chhabra S, Hojjati MR, Yanamadala S, Chopra V, Eng C, Jiang XC. Elevated baseline plasma phospholipid protein (PLTP) levels are an independent predictor of long-term all-cause mortality in patients with diabetes mellitus and known or suspected coronary artery disease. *Atherosclerosis*. 2015;239:503-8.

Cavusoglu E, Marmur JD, Hegde S, Yanamadala S, Batuman OA, Chopra V, Ay G, Eng C. Relation of baseline plasma MMP-1 levels to long-term all-cause mortality in patients with known or suspected coronary artery disease referred for coronary angiography. *Atherosclerosis*. 2015;239:268-75.

Kumar S, Innasimuthu AL, Marmur JD. The nature and pattern of coronary stent recalls. *J Invasive Cardiol*. 2014;26:433-6.

Ko W, Tranbaugh R, Marmur JD, Supino PG, Borer JS. Myocardial Revascularization in New York State: Variations in the PCI-to-CABG Ratio and Their Implications. *J Am Heart Assoc*. 2012 Apr;1(2):e001446.

Zhang M, Hou YJ, Cavusoglu E, Lee DC, Steffensen R, Yang L, Bashari D, Villamil J, Moussa M, Fernaine G, Jensenius JC, Marmur JD, Ko W, Shevde K. MASP-2 activation is involved in ischemia-related necrotic myocardial injury in humans. *Int J Cardiol*. 2013 Jun 20;166(2):499-504.

Cavusoglu E, Marmur JD, Hojjati MR, Chopra V, Butala M, Subnani R, Huda MS, Yanamadala S, Ruwende C, Eng C, Pinsky DJ. Plasma interleukin-10 levels and adverse outcomes in acute coronary syndrome. *Am J Med*. 2011 Aug;124(8):724-30.

Azari BM, Marmur JD, Salifu MO, Ehrlich YH, Kornecki E, Babinska A. Transcription and translation of human F11R gene are required for an initial step of atherogenesis induced by inflammatory cytokines. *J Transl Med*. 2011;9:98.

Azari BM, Marmur JD, Salifu MO, Cavusoglu E, Ehrlich YH, Kornecki E, Babinska A. Silencing of the F11R gene reveals a role for F11R/JAM-A in the migration of inflamed vascular smooth muscle cells and in atherosclerosis. *Atherosclerosis*. 2010;212:197-205.

Cavusoglu E, Ruwende C, Chopra V, Poludasu S, Yanamadala S, Frishman WH, Eng C, Pinsky DJ, Marmur JD. Relation of baseline plasma ADMA levels to cardiovascular morbidity and mortality at two years in men with diabetes mellitus referred for coronary angiography. *Atherosclerosis*. 2010;210:226-31.

Poludasu S, Cavusoglu E, Khan W, Marmur JD. Neutrophil to lymphocyte ratio as a predictor of long-term mortality in African Americans undergoing percutaneous coronary intervention. *Clin Cardiol*. 2009;32:E6-E10.

Marmur JD, Bullock-Palmer RP, Poludasu S, Cavusoglu E. Avoiding intelligence failures in the cardiac catheterization laboratory: Strategies for the safe and rational use of dalteparin or enoxaparin during percutaneous coronary intervention. *J Invasive Cardiol*. 2009;21:653-64.

Poludasu S, Marmur JD, Weedon J, Khan W, Cavusoglu E. Red cell distribution width (RDW) as a predictor of long-term mortality in patients undergoing percutaneous coronary intervention. *Thromb Haemost*. 2009;102:581-7.

Cavusoglu E, Marmur JD, Chhabra S, Chopra V, Eng C, Jiang XC. Relation of baseline plasma phospholipid transfer protein (PLTP) activity to left ventricular systolic dysfunction in patients referred for coronary angiography. *Atherosclerosis*. 2009;207:261-5.

Cavusoglu E, Chopra V, Gupta A, Choksi PU, Ruwende C, Yanamadala S, Frishman WH, Pinsky DJ, Marmur JD. Relation of baseline serum potassium levels to angiographic findings in

patients with known or suspected coronary artery disease. *Am J Hypertens*. 2009;22:754-62.

Poludasu S, Marmur JD, Weedon J, Khan W, Cavusoglu E. Effect of hemoglobin level on long-term all-cause mortality after percutaneous coronary intervention in African-Americans. *Am J Cardiol*. 2009;103:1078-82.

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Marmur JD, Poludasu S, Lazar J, Cavusoglu E. Long-term mortality after bolus-only administration of abciximab, eptifibatide, or tirofiban during percutaneous coronary intervention. *Catheter Cardiovasc Interv*. 2009;73:214-221.

Cavusoglu E, Chopra V, Gupta A, Battala VR, Poludasu S, Eng C, Marmur JD. Relation between red blood cell distribution width (RDW) and all-cause mortality at two years in an unselected population referred for coronary angiography. *Int J Cardiol*. 2009 Jan 12.

Poludasu S, Cavusoglu E, Khan W, Marmur JD. Impact of body mass index on long-term all-cause mortality after percutaneous coronary intervention in African-Americans. *J Invasive Cardiol*. 2009;21:20-25.

Poludasu S, Cavusoglu E, Khan W, Marmur JD. All-cause mortality after drug-eluting stent implantation in African-Americans. *Coron Artery Dis*. 2008;19:551-557.

Marmur JD, Lakhani M, El Rouby S, Cavusoglu E. A novel point-of-care assay for the monitoring of low-molecular weight heparins in the cardiac catheterization laboratory. *J Invasive Cardiol*. 2008;20:449-454.

Marmur JD, Poludasu S, Feit A, Battala VR, Cavusoglu E. Activated clotting time (ACT)-guided intravenous dalteparin dosing during percutaneous coronary intervention. *J Invasive Cardiol*. 2008;20:323-327.

Cavusoglu E, Chopra V, Battala V, Ruwende C, Yanamadala S, Eng C, Pinsky DJ, Marmur JD. Baseline plasma adiponectin levels as a predictor of left ventricular systolic dysfunction in patients referred for coronary angiography. *Am J Cardiol*. 2008;101:1073-1078.

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Cavusoglu E, Chhabra S, Jiang XC, Hojjati MR, Chopra V, Eng C, Gupta A, Yanamadala S, Pinsky DJ, Marmur JD. Relation of baseline plasma phospholipid levels to cardiovascular outcomes at two years in men with acute coronary syndrome referred for coronary angiography.

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Cavusoglu E, Kornecki E, Sobocka MB, Babinska A, Ehrlich YH, Chopra V, Yanamadala S, Ruwende C, Salifu MO, Clark LT, Eng C, Pinsky DJ, Marmur JD. Association of plasma levels of F11 receptor/junctional adhesion molecule-A (F11R/JAM-A) with human atherosclerosis. J Am Coll Cardiol. 2007;50:1768-1776.

Anand SX, Kim MC, Kamran M, Sharma SK, Kini AS, Fareed J, Hoppensteadt DA, Carbon F, Cavusoglu E, Varon D, Viles-Gonzalez JF, Badimon JJ, Marmur JD. Comparison of platelet function and morphology in patients undergoing percutaneous coronary intervention receiving bivalirudin versus unfractionated heparin versus clopidogrel pretreatment and bivalirudin. Am J Cardiol. 2007;100:417-424.

Cavusoglu E, Eng C, Chopra V, Ruwende C, Yanamadala S, Clark LT, Pinsky DJ, Marmur JD. Usefulness of the serum complement component C4 as a predictor of stroke in patients with known or suspected coronary artery disease referred for coronary angiography. Am J Cardiol. 2007;100:164-168.

Cavusoglu E, Ruwende C, Eng C, Chopra V, Yanamadala S, Clark LT, Pinsky DJ, Marmur JD. Usefulness of baseline plasma myeloperoxidase levels as an independent predictor of myocardial infarction at two years in patients presenting with acute coronary syndrome. Am J Cardiol. 2007;99:1364-1368.

Poludasu S, Cavusoglu E, Clark LT, Marmur JD. Impact of gender on in-hospital percutaneous coronary interventional outcomes in African-Americans. J Invasive Cardiol. 2007;19:123-128.

Babinska A, Azari BM, Salifu MO, Liu R, Jiang XC, Sobocka MB, Boo D, Al Khoury G, Deitch JS, Marmur JD, Ehrlich YH, Kornecki E. The F11 receptor (F11R/JAM-A) in atherothrombosis: Overexpression of F11R in atherosclerotic plaques. Thromb Haemost 2007;97:272–281.

Cavusoglu E, Eng C, Chopra V, Clark LT, Pinsky DJ, Marmur JD. Low Plasma RANTES Levels Are an Independent Predictor of Cardiac Mortality in Patients Referred for Coronary Angiography. Arterioscler Thromb Vasc Biol. 2007;27:929-935.

Sobocki T, Jayman F, Sobocka MB, Marmur JD, Banerjee P. Isolation, sequencing, and functional analysis of the TATA-less murine ATPase II promoter and structural analysis of the ATPase II gene. Biochimica et Biophysica Acta 2007;1769:61–75.

Marmur JD, Poludasu S, Agarwal A, Vladutiu P, Feit A, Lapin R, Cavusoglu E. Bolus-only platelet glycoprotein IIb/IIIa inhibition during percutaneous coronary intervention. J Invasive Cardiol. 2006;18:521-526.

Marmur JD, Mitre CA, Barnathan E, Cavusoglu E. Benefit of Bolus-Only Platelet Glycoprotein IIb/IIIa Inhibition During Percutaneous Coronary Intervention: Insights From the Very Early Outcomes in the EPIC Trial. Am Heart J. 2006; 2006;152:876-881.

Cavusoglu E, Chopra V, Gupta A, Ruwende C, Yanamadala S, Eng C, Clark LT, Pinsky DJ, Marmur JD. Usefulness of the white blood cell count as a predictor of angiographic findings in an unselected population referred for coronary angiography. *Am J Cardiol* 2006;98:1189–1193.

Cavusoglu E, Chopra V, Gupta A, Clark LT, Eng C, Marmur JD. Usefulness of anemia in men as an independent predictor of two-year cardiovascular outcome in patients presenting with acute coronary syndrome. *Am J Cardiol* 2006;98:580-584.

Cavusoglu E, Ruwende C, Chopra V, Yanamadala S, Eng C, Clark LT, Pinsky DJ, Marmur JD. Adiponectin is an independent predictor of all-cause mortality, cardiac mortality, and myocardial infarction in patients presenting with chest pain. *Eur Heart J*. 2006;27:2300-2309.

Akerman MJ, Yaegashi M, Khiangte Z, Murugan AT, Abe O, Marmur JD. Bronchodilator effect of infused B-type natriuretic peptide in asthma. *Chest* 2006;130:66-72.

Kokolis S, Marmur JD, Clark LT, Kassotis J, Kokolis R, Cavusoglu E, Lapin R, Breitbart S, Lazar JM. Effects of alcoholism on coronary artery disease and left ventricular dysfunction in male veterans. *J Invasive Cardiol*. 2006;18:304-307.

Cavusoglu E, Ruwende C, Chopra V, Yanamadala S, Eng C, Clark LT, Pinsky DJ, Marmur JD. Tissue inhibitor of metalloproteinase-1 (TIMP-1) is an independent predictor of all-cause mortality, cardiac mortality, and myocardial infarction. *Am Heart J*. 2006 May;151(5):1108.e1-8.

Cavusoglu E, Lakhani M, Marmur JD. The Activated Clotting Time (ACT) Can Be Used to Monitor Enoxaparin and Dalteparin after Intravenous Administration. *J Invasive Cardiol* 2005;17:416-421.

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Kini AS, Lee P, Marmur JD, Agarwal A, Duffy ME, Kim MC, Sharma SK. Correlation of postpercutaneous coronary intervention creatine kinase-MB and troponin I elevation in predicting mid-term mortality. *Am J Cardiol* 2004;93:18-23.

Sharma SK, Kini A, Mehran R, Lansky A, Kobayashi Y, Marmur JD. Randomized trial of Rotational Atherectomy Versus Balloon Angioplasty for Diffuse In-stent Restenosis (ROSTER). *Am Heart J* 2004;147:16-22.

Kini AS, Lee PC, Mitre CA, Kim MC, Kamran M, Duffy ME, Marmur JD, Sharma SK. Prediction of outcome after percutaneous coronary intervention for the acute coronary syndrome. *Am J Med* 2003;115:708-714.

Doshi SN, Kini A, Kim MC, Payne N, Kamran M, Sherman W, Marmur JD, Sharma SK. A comparative study of rotational atherectomy in acute and stable coronary syndromes in the modern era. *Am J Cardiol* 2003;92:1404-1408.

Marmur JD, Anand SX, Bagga RS, Fareed J, Pan C-M, Sharma SK, Richard MF. The activated clotting time can be used to monitor the low molecular weight heparin dalteparin after intravenous administration. *J Am Coll Cardiol* 2003;41:394-402.

Kini AS, Richard M, Suleman J, Perez N, Lee P, Fisher EA, Kamran M, Marmur JD, Sharma SK. Effectiveness of tirofiban, eptifibatide, and abciximab in minimizing myocardial necrosis during percutaneous coronary intervention (TEAM pilot study). *Am J Cardiol* 2002;90:526-529.

Lev EI, Marmur JD, Zdravkovic M, Osende JI, Robbins J, Delfin JA, Richard M, Erhardtsen E, Thomsen MS, Lincoff AM, Badimon JJ. Antithrombotic effect of tissue factor inhibition by inactivated factor VIIa; an ex-vivo human study. *Arterioscler Thromb Vasc Biol* 2002;22:1036-1041.

Cavusoglu E, Chen I, Rappaport J, Marmur JD. Inhibition of tissue factor gene induction and activity using a hairpin ribozyme. *Circulation* 2002;105:2282-2287.

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Lev EI, Osende JI, Richard MF, Robbins JA, Delfin JA, Rodriguez O, Sharma SK, Jayasundera T, Badimon JJ, Marmur JD. Administration of abciximab to patients receiving tirofiban or eptifibatide – effect on platelet function. *J Am Coll Cardiol* 2001;37:847-855.

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Dangas G, Ambrose JA, Rehmann D, Marmur JD, Sharma SK, Hemdal-Monsen C, Sanborn TA, Fischman DL. Balloon optimization versus stent study (BOSS): provisional stenting and early recoil after balloon angioplasty. *Am J Cardiol*. 2000;85:957-961.

Kini A, Marmur JD, Dangas G, Choudhary S, Sharma SK. Angiographic patterns of in-stent restenosis and implications on subsequent revascularization. *Catheter Cardiovasc Interv*. 2000;49:23-29.

Kini A, Kini S, Marmur JD, Berteau T, Dangas G, Cocke TP, Sharma SK. Incidence and mechanism of creatine kinase-MB enzyme elevation after coronary intervention with different devices. *Catheter Cardiovasc Interv* 1999;48:123-129.

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Review Articles

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Cavusoglu E, Kini AS, Marmur JD, Sharma SK. Current status of rotational atherectomy. *Catheter Cardiovasc Interv*. 2004;62:485-98.

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Book Chapters

Marmur JD, Mitre C. Management of Acute Coronary Syndromes in Diabetic Patients, in Clark LT (ed.): Cardiovascular Disease and Diabetes. New York, McGraw-Hill, 2006; 67-88.

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Invited Lectures (up to 2008)

October 2008: (i) Moderator of Interventional Pharmacology Board Review. (ii) Anti-thrombins for ACS: UFH/LMWH $\pm$ upstream IIb/IIIa is still the best option. (iii) Dual antiplatelet and DES guidelines. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

October 2007: (i) New Insights Into Glycoprotein IIb/IIIa Inhibitor Use: Bolus Only GP IIb/IIIa Inhibition During PCI. (ii) Controversies in Adjunct Pharmacology: Low Molecular Weight Heparin in ACS and PCI. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

June 2005: The Evolving Role of Anticoagulation in Coronary Intervention. 3rd Annual New Jersey Cardiovascular Symposium: An Update in the Management of Acute Coronary Syndromes and Heart Failure. Newark, NJ.

March 2005: Unfractionated Heparin Is Obsolete in the Cath Lab-Opening Arguments/Rebuttal, Protagonist. Debate at the ACC Annual Scientific Sessions, Orlando, FL.

September 2004: Monitoring of Low Molecular Weight Heparins - from Theory to Practice. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

April 2004: Enoxaparin in Acute Coronary Syndromes and Percutaneous Coronary Intervention. Interventional Cardiology Review Course, San Jose, CA.

September 2003: The Emerging Role of Natriuretic Peptides in Percutaneous Coronary Intervention. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

July 2003: Anticoagulant effects of LMWHs in surgical and interventional indications. Presented to the WHO Working Group on Unfractionated Heparin and Low Molecular Weight Heparin / Working Party on Monitoring of Low Molecular Weight Heparin. Scientific and Standardisation Committee of the International Society on Thrombosis and Haemostasis, 49th Annual Meeting, Birmingham, UK

June 2003: Intravenous Low Molecular Weight Heparin During PCI. Tenth International Symposium on Thromboembolism, London, England.

March 2003: Role and Controversies of Antithrombin Therapy in the Cardiac Catheterization Laboratory. 4th Annual Antithrombotic Therapy Symposium, Detroit, MI.

Oct. 2002: Anti-inflammatory Effects of Anti-platelet Agents. Sixth Annual Scientific Meeting of the Institute of Cardiovascular Science and Medicine, Hong Kong.

September 2002: Low Molecular Weight Heparins and Direct Thrombin Inhibitors. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

June 2002: Monitoring Antithrombotic Therapy During Arterial Intervention. Ninth International Symposium on Thromboembolism, Seville, Spain.

September 2001: GPIIb/IIIa Inhibitors- New Trial Insights and Controversies. Transcatheter Cardiovascular Therapeutics (TCT) Annual Scientific Sessions, Washington, DC.

July 2001: Direct Thrombin Inhibition in Percutaneous Coronary Intervention. Second International Congress on Heart Disease, Washington, DC.

June 2001: Monitoring Low Molecular Weight Heparins During Coronary Intervention. Eighth International Symposium on Thromboembolism, Florence, Italy.

May 2001: Challenges in the Modern Management of Complex Coronary and Peripheral Vascular Disease. Scripps Memorial Hospital, La Jolla, CA.

March 2001: State of the Art Antithrombotic Therapy 2001. LMWH in Interventional Cardiology. Wayne State University, Dearborn, MI.

March 2001: Adenoviral-mediated Angiogenic Gene Therapy. Annual Scientific Sessions of the American College of Cardiology, Orlando, FL.

Nov. 2000: Low Molecular Weight Heparins in Coronary Intervention. Annual Scientific Sessions of the American Heart Association, New Orleans, LA.

Oct. 2000: Oral Antiplatelet Agents. Interventional Cardiology Review Course, Transcatheter Cardiovascular Therapeutics (TCT) Annual Symposium, Washington, DC.

August 2000: Congress of the European Society of Cardiology. Differentiation of Glycoprotein IIb/IIIa Inhibitors. Amsterdam, The Netherlands.

May 2000: Paris Course on Revascularization. Switching Patients from Small Molecules to Abciximab. Paris, France.

March 2000: Alternative Revascularization Strategies: PMR/DMR and Angiogenesis. Evening session panelist at the American College of Cardiology 49th Annual Scientific Sessions, Anaheim, CA.

Oct. 1999: Tirofiban in the Management of Acute Coronary Syndromes. Symposium on Platelet GP IIb/IIIa Inhibitors. Lisbon, Portugal.

Sept. 1999: Aspirin and Thienopyridines. Interventional Cardiology Review Course, Transcatheter Cardiovascular Therapeutics (TCT) Annual Symposium, Washington, DC.

Sept. 1999: Keynote Address: New Pharmacologic Adjuncts in Coronary Intervention. Cardiac Intervention in Chicagoland, Chicago, Illinois.

Sept. 1999: ACS Debate Club. Transcatheter Cardiovascular Therapeutics (TCT) Annual

Scientific Sessions, Washington, DC.

Sept. 1999: Platelet Receptor Inhibitors. Cardiology Grand Rounds, University of Virginia, Charlottesville, VA.

August 1999: Acute Myocardial Infarction: Invasive versus Medical Therapy. Invitational Cardiology Symposium, Akron General Medical Center, Akron, OH.

June 1999: Gene Therapy for Therapeutic Angiogenesis. A Live Symposium of Complex Coronary Cases. New York, NY.

April 1999: Platelet Glycoprotein IIb/IIIa Receptor Blockers in Coronary Interventions: What Did We Learn from EPIC, EPILOG, EPISTENT, RESTORE, and IMPACT II? Boston, MA

March 1999: GPIIb/IIIa Inhibition in Acute Coronary Syndromes Management. CME Symposium at the 1999 Annual Meeting of the American College of Cardiology. New Orleans, LA.

Jan. 1999: Indications for GP IIb/IIIa Inhibitors in Acute Coronary Syndromes and Percutaneous Coronary Interventions. St. Louis University Hospital, St. Louis, MO.

Nov. 1998: New Paradigm in the Treatment of Acute Coronary Syndromes. The Role of Troponin and IIb/IIIa Inhibitor Therapy. Stony Brook University Hospital, NY.

Sept. 1998: Interventional Cardiology Update 98. CK versus Troponin in the Diagnosis of Acute Coronary Syndromes and Periprocedural CK Elevation. Orlando, FL.

Sept. 1998: The Bernard and Helen Perlman Lecture: Platelet GP IIb/IIIa Receptor Blockers. The New York Cardiological Society, Inc. 70th Anniversary Program on Emerging Issues in the Practice of Cardiology. New York, NY.

July 1998: Acute Coronary Syndromes: Incorporating New Therapies to an Established Algorithm of Care. Hartford, CT

June 1998: Gene Therapy for the Management of In-stent Restenosis. A Live Symposium of Complex Coronary Cases. New York, NY.

June 1998: Molecular Biology of Restenosis. Current Medical and Interventional Therapy in Acute Coronary Syndromes. New York, NY.

April 1990: The Acute Biological Response to Excimer Versus Thermal Laser Angioplasty in Experimental Atherosclerosis. Symposium on Laser Angioplasty. University Hospital Utrecht, Maastricht, The Netherlands.

Media and Educational Materials

CD-ROM: Low Molecular Weight Heparin in the Cardiac Catheterization Laboratory. September 2002. (produced by alphaMED, New York, NY, and the Annenberg Center for Health Sciences at Eisenhower, 39000 Bob Hope Drive, Rancho Mirage, CA 92270).

CD-ROM: The Evolving Role of Tissue Factor and its Inhibitor, TFPI. The Margaux Conference on Critical Illness, Sedona, AZ 2001 (produced by Remedica Communications, UK; www.remedica.com).

CD-ROM: Antithrombotic drugs in Interventional Cardiology. 8th International Symposium on Thromboembolism. Palazzo dei Congressi, Florence, Italy 2001 (produced by Remedica Communications, UK; www.remedica.com).

CD-ROM: ACC Spotlight Series: ACCIS 2001. Alternative Revascularization Strategies. Orlando, FL 2001 (produced by PhysicianEd, Boston, MA).

CD-ROM: Oral antiplatelet therapy. 3rd Annual Interventional Cardiology Self-Assessment Course. Washington, DC 2000 (produced by The Cardiovascular Research Foundation).

CD-ROM: GP IIb/IIIa Inhibition in Acute Coronary Syndromes- Science and Practice. New Orleans, LA 1999 (produced by Conceptis Technologies, Montreal, Canada).

Patents

Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) is an Independent Predictor of All-Cause Mortality, Cardiac Mortality, and Myocardial Infarction. Submitted December 2, 2004 by The Research Foundation of the State University of New York (SUNY). For more information, visit: www.RFSUNY.org.

Grant Support History

- 1) Principal investigator: Jonathan D. Marmur
- source: Ontario Heart and Stroke Foundation
- title of project: Biologic Response to Vascular Injury
- dates of project: 1988-1990
- total direct cost of project \$70,000

- 2) Principal investigator: Jonathan D. Marmur
- source: Medical Research Council of Canada Fellowship Award (9211FER-1033-34668)
- title of project: Molecular Responses to Vascular Injury
- dates of grant: 1990-1994
- total direct cost of project \$202,000

- 3) Principal investigator: Jonathan D. Marmur
- source: NIH/NHLBI (KO8 HL03210-01)
- title of project: Tissue Factor Regulation In Arterial Injury
- dates of project: 1994-1999
- total direct cost of project \$436,590

- 4) Principal investigator: Jonathan D. Marmur
- source: Novo Nordisc
- title of project: FFR-rFVII in Patients Undergoing Elective PTCA-ACES
- dates of project: 1999-2001
- total direct cost of project \$65,750

- 5) Local (Mt. Sinai Hospital, NY) principal investigator: Jonathan D. Marmur
- source: Berlex Laboratories
- title of project: Adenovirus Mediated Human FGF4 Gene Transfer in Patients with Angina Pectoris
- dates of project: 1998-2001
- total direct cost of project \$155,000

- 6) Principal investigator: Jonathan D. Marmur
- source: Pharmacia & Upjohn
- title of project: Dalteparin Reopro ACT Monitoring (DREAM)
- dates of project: 2000-2003
- total direct cost of project \$182,000

- 7) Local (Mt. Sinai Hospital, NY) principal investigator: Jonathan D. Marmur
- source: Berlex Laboratories
- title of project: A Multicenter, Randomized Double-Blind, Placebo Controlled Study to Evaluate the Efficacy and Safety of Ad5FGF-4 in Patients with Stable Angina
- dates of project: 2000-2003
- total direct cost of project \$181,000

- 8) Principal investigator: Jonathan D. Marmur
- source: Pfizer, Inc.
- title of project: ACT-guided Titration of Low Molecular Weight Heparin Dosing in Percutaneous Coronary Intervention
- Period of Support: 2003-2013
- Total Cost of Project: \$600,000

- 9) Principal investigator: Erdal Cavusoglu (Jonathan Marmur role as Collaborator)
- source: National Institutes of Health (Grant Number: 1R21HL098661-01)
- title of project: Plasma F11R and Cardiovascular Outcomes in Patients with Coronary Artery Disease; dates of grant: 03/01/2010 – 02/29/2012
- Aim: The major aim of this project is to investigate the role of F11R in patients with established coronary artery disease

- 10) Principal investigator: Erdal Cavusoglu (Jonathan Marmur as Collaborator)
- source: American Heart Association (Founders Affiliate; Grant Number: 10GRNT3700003)
- title of project: Endogenous Erythropoietin and Outcome in Coronary Artery Disease
- dates of project: 07/01/2010 – 06/30/2013
- Aim: The major aim of this project is to determine the prognostic significance of erythropoietin in patients with the acute coronary syndromes