



Ezra A. Amsterdam, M.D.

Clinical Interests	Ezra Amsterdam specializes in management of acute ischemic syndromes, identification and management of low-risk patients with chest pain (immediate treadmill testing, role of panic attack, GERD), post-myocardial infarction risk stratification and management, and prevention of coronary artery disease.
Research/Academic Interests	Dr. Amsterdam's research interests include: Coronary artery disease, clinical pharmacology, noninvasive cardiac testing, exercise physiology, testing and training, women and heart disease, and evaluation of low risk patients presenting to ED with chest pain.
Title	Distinguished Professor, Department of Internal Medicine Master Clinician Teacher Associate Chief (Academic Affairs), Division of Cardiovascular Medicine
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Clinic	UC Davis Heart Center
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of Rochester School of Medicine and Dentistry, Rochester NY 1962 B.A., Wesleyan University, Middletown CT 1958
Internships	Internal Medicine, Strong Memorial Hospital, University of Rochester, Rochester NY 1962-1963
Residency	Cardiology, Bronx Municipal Hospital Center, Albert Einstein College of Medicine, Bronx NY 1963-1965 Mt. Sinai Hospital, New York City NY 1966
Fellowships	Cardiology, Peter Bent Brigham Hospital & Harvard Medical School, Boston MA 1967-1968



Ezra A. Amsterdam, M.D.

Board Certifications American Board of Internal Medicine

Professional Memberships American College of Cardiology
American Heart Association
Preventive Cardiology - Founding Editor 1994-2005
Society of Cardiac Patient Care

Honors and Awards Walter Bleifeld Memorial Award, Distinguished contribution in the Field of Clinical Research in Cardiology, 2015
Outstanding clinician Award, Department of Internal Medicine, UCDMD, 2015
University of California, Davis, School of Medicine presents 2014 School of Medicine Research Award in recognition of Mentoring Medical Research Fellowship Student Phong Ha, Class of 2016, 2014
University of California, Davis, School of Medicine presents 2014 School of Medicine Research Award in recognition of Mentoring Medical Research Fellowship Student Debbie Chen, Class of 2016., 2014
CVD in women: A Fresh perspective Seventh H.J.C. Swan Memorial Lecture, International Academy of Cardiology 18th World Congress on Heart Disease Annual Scientific Sessions 2013, Vancouver, BC, Canada, July 27, 2013

Select Recent Publications Richards JR, Garber D, Laurin EG, Albertson TE, Derlet RW, Amsterdam EA, Olson KR, Ramoska EA, Lange RA. Treatment of cocaine cardiovascular toxicity: a systematic review. Clin Toxicol (Phila). 2016 Feb 26;1-20.

Stauber SM, Teleten A, Li Z, Venugopal S, Amsterdam EA. Prognosis of Low-Risk Young Women Presenting to the Emergency Department With Chest Pain. Am J Cardiol. 2016 Jan 1;117(1):36-9.

Goyal A, de Lemos JA, Peng SA, Thomas L, Amsterdam EA, Hockenberry JM, Peterson ED, Wang TY. Association of Patient Enrollment in Medicare Part D With Outcomes After Acute Myocardial Infarction. Circ Cardiovasc Qual Outcomes. 2015 Nov;8(6):567-75.

Li Z, Amsterdam EA, Young JN, Hoegh H, Armstrong EJ. Contemporary Outcomes of Coronary Artery Bypass Grafting Among Patients With Insulin-Treated and Non-Insulin-Treated Diabetes. Ann Thorac Surg. 2015 Dec;100(6):2262-9.



Ezra A. Amsterdam, M.D.

Sab S, Dhruva SS, Paulsen J, Sidhu RS, Amsterdam EA, Venugopal S. Here Today, Gone Tomorrow. *Am J Med.* 2015 Dec;128(12):e7-9.

Malik LH, Singh GD, Amsterdam EA. Chagas Heart Disease: An Update. *Am J Med.* 2015 Nov;128(11):1251.e7-9.

Anderson IB, Amsterdam EA, Srivatsa U. Not Necessarily a Myocardial Infarction: New Left Bundle Branch Block. *Am J Med.* 2015 Sep;128(9):963-5.

Malik LH, Singh GD, Amsterdam EA. The Epidemiology, Clinical Manifestations, and Management of Chagas Heart Disease. *Clin Cardiol.* 2015 Sep;38(9):565-9.

Winchester DE, Brandt J, Schmidt C, Allen B, Payton T, Amsterdam EA. Diagnostic yield of routine noninvasive cardiovascular testing in low-risk acute chest pain patients. *Am J Cardiol.* 2015 Jul 15;116(2):204-7.

Armstrong EJ, Anderson DR, Yeo KK, Singh GD, Bang H, Amsterdam EA, Freischlag JA, Laird JR. Association of dual-antiplatelet therapy with reduced major adverse cardiovascular events in patients with symptomatic peripheral arterial disease. *J Vasc Surg.* 2015 Jul;62(1):157-165.

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William J. Bommer, M.D.

Clinical Interests	<p>William J. Bommer's clinical interests focus on sonography (thoracic esophageal and gastric imaging) and intraluminal echocardiography. Dr. Bommer is evaluating risk factors for preclinical disease, morbidity and mortality in patients 65 or older.</p> <p>Projects involve computer simulation of blood-flow models in finite difference analysis, restenosis prevention with time-release oligonucleotide site-specific delivery, bronchial airway circulation, and new contract agents. He is the director of the California Off-Site PCI Program.</p>
Title	<p>Professor of Clinical Internal Medicine Director of Noninvasive Services Director, Cardiology Fellowship Training Program Director, California Elective PCI Program, California Department of Public Health</p>
Specialty	<p>Cardiology, Cardiovascular Medicine, Internal Medicine</p>
Department	<p>Internal Medicine</p>
Division	<p>Cardiovascular Medicine</p>
Center/Program Affiliation	<p>Cardiovascular Services</p>
Address/Phone	<p>Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284</p>
Additional Phone	<p>Physician Referrals: 916-734-5678</p>
Education	<p>M.D., State University of New York School of Medicine, Buffalo NY 1972 B.A., Cornell University, Ithaca NY 1968</p>
Internships	<p>Internal Medicine, State University of New York, Buffalo NY 1972-1973</p>
Residency	<p>Internal Medicine, State University of New York, Buffalo NY 1973-1975</p>
Fellowships	<p>Cardiovascular Medicine, Martinez VA Hospital , Martinez CA 1975-1977</p>
Board Certifications	<p>American Board of Internal Medicine, 1975 American Board of Internal Medicine, Cardiovascular Disease, 1977</p>
Professional Memberships	<p>American College of Cardiology</p>



William J. Bommer, M.D.

Honors and Awards

American College of Physicians
Sacramento Sierra Yolo Medical Society

Best Doctors in Sacramento 2011, 2012, 2013, 2014, 2015
Best Doctors in America 2009, 2010, 2011, 2012, 2013, 2014, 2015

Select Recent Publications

Bommer WJ. California cardiovascular legislation 2014. *Rev Cardiovasc Med.* 2014;15(3):266-70.

Bommer WJ. Coronary revascularization: then, now, future trends. *Rev Cardiovasc Med.* 2014;15(2):176-7.

Smith TW, Bommer WJ. Multimodality imaging in transcatheter aortic valve replacement. *Rev Cardiovasc Med.* 2014;15(2):75-85.

Bommer WJ. Choosing wisely. *Rev Cardiovasc Med.* 2013;14(2-4):e134-5.

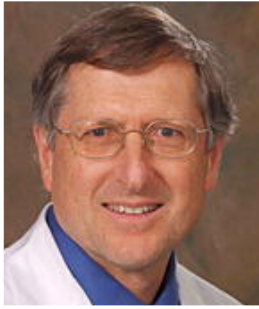
Bommer WJ. Health care reform: what's wrong with 17.6% GDP? *Rev Cardiovasc Med.* 2013;14(1):66-8.

Bommer WJ. California ACC goals. *Rev Cardiovasc Med.* 2012;13(2-3):e121-3.

Bommer WJ. Current and future alternatives to warfarin for the prevention of stroke in atrial fibrillation. *Crit Pathw Cardiol.* 2012 Jun;11(2):45-54.

Aryana M, Li Z, Bommer WJ. Obesity and physical fitness in California school children. *Am Heart J.* 2012 Feb;163(2):302-12.

Bommer WJ. Can docs bridge US over the cliff? *Rev Cardiovasc Med.* 2012;13(4):e196-7.



William J. Bommer, M.D.

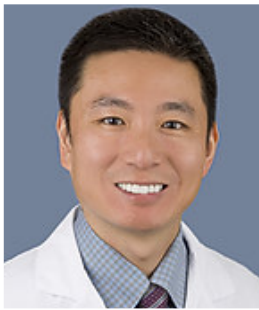
Bommer WJ. Use of angiotensin-converting enzyme inhibitor/angiotensin receptor blocker therapy to reduce cardiovascular events in high-risk patients: part 2. *Prev Cardiol.* 2008 Fall;11(4):215-22.

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Yung-Wei Chi, D.O.

Clinical Interests	Dr. Chi is a nationally recognized expert in vascular medicine with clinical expertise on venous, arterial and lymphatic disorders. A prolific author and researcher, he has presented his research works and lectured at major national and international conferences. His research comprises all aspects of vascular medicine, focusing on vascular ultrasound imaging, anti-thrombotic therapy, cellular based/angiogenesis therapy for peripheral arterial disease, and venous diseases and interventions. As part of the first group of board-certified phlebologists in the U.S., Dr. Chi is a regional expert in catheter-based endovenous treatment of venous disorders.
Title	Professor
Specialty	Cardiovascular Medicine , Internal Medicine, Vascular and Endovascular Care, Vascular Surgery
Department	Internal Medicine UC Davis Medical Group
Division	Cardiovascular Medicine
Clinic	UC Davis Medical Group, Rocklin
Center/Program Affiliation	Cardiovascular Services Vascular Center UC Davis Medical Group
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Vascular Center, 4860 Y St. Suite 2100 Sacramento, CA 95817 Phone: 916-734-3800 UC Davis Medical Group - Rocklin, 550 West Ranch View Dr. Suite 2005 Rocklin, CA 95765 Phone: 916-295-5700
Additional Phone	Clinic Phone: 916-734-3761 Clinic Fax: 916-734-3801 Clinic Fax: 916-295-5764 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Mandarin Chinese
Education	D.O., University of Health Sciences College of Osteopathic Medicine, Kansas City MO 1997 B.S., UC Irvine, Irvine CA 1992



Yung-Wei Chi, D.O.

Internships Cleveland Clinic Foundation, Cleveland OH 1998

Residency Cleveland Clinic Foundation, Cleveland OH 2000

Fellowships Cleveland Clinic Foundation, Cleveland OH 2001

Board Certifications American Board of Internal Medicine, 2000
American Board of Phlebology, 2009
American Board of Vascular Medicine, 2006

Select Recent Publications Santiago FR, Piscoya M, Chi YW. Change in perception of sclerotherapy results after exposure to pre-post intervention photographs. *Phlebology*. 2018 May;33(4):282-287. Epub 2017 Oct 23. Erratum in: *Phlebology*. 2018 May;33(4):292.

Lather HD, Gornik HL, Olin JW, Gu X, Heidt ST, Kim ESH, Kadian-Dodov D, Sharma A, Gray B, Jaff MR, Chi YW, Mace P, Kline-Rogers E, Froehlich JB. Prevalence of Intracranial Aneurysm in Women With Fibromuscular Dysplasia: A Report From the US Registry for Fibromuscular Dysplasia. *JAMA Neurol*. 2017 Sep 1;74(9):1081-1087.

Santiago FR, Piscoya M, Chi YW. A sonographic study of thigh telangiectasias. *Phlebology*. 2017 Jan 1:268355517717404.

Chi YW, Durbin-Johnson B, Schul M. Short-form 6D assessment in compression module of the American College of Phlebology Patient Reported Outcome Venous Registry. *Phlebology*. 2018 Jul; 33(6):425-429.

Chi YW, Tseng KH, Li R, Pan T. Comparison of piezoresistive sensor to PicoPress® in in-vitro interface pressure measurement. *Phlebology*. 2018 Jun;33(5):315-320.

Albernaz LF, Albernaz DTS, Zignani FRM, Chi YW. Treatment of foot varicose veins: A study of 119 consecutive patients. *Phlebology*. 2018 May;33(4):267-272.



Yung-Wei Chi, D.O.

Kadian-Dodov D, Gornik HL, Gu X, Froehlich J, Bacharach JM, Chi YW, Gray BH, Jaff MR, Kim ES, Mace P, Sharma A, Kline-Rogers E, White C, Olin JW. Dissection and Aneurysm in Patients With Fibromuscular Dysplasia: Findings From the U.S. Registry for FMD. *J Am Coll Cardiol.* 2016 Jul 12;68(2):176-85.

Li R, Nie B, Zhai C, Cao J, Pan J, Chi YW, Pan T. Telemedical Wearable Sensing Platform for Management of Chronic Venous Disorder. *Ann Biomed Eng.* 2016 Jul;44(7):2282-91.

Hedayati N, Carson JG, Chi YW, Link D. Management of mixed arterial venous lower extremity ulceration: A review. *Vasc Med.* 2015 Oct;20(5):479-86.

Mosti G, De Maeseneer M, Cavezzi A, Parsi K, Morrison N, Nelzen O, Rabe E, Partsch H, Caggiati A, Simka M, Obermayer A, Malouf M, Flour M, Maleti O, Perrin M, Reina L, Kalodiki E, Mannello F, Rerkasem K, Cornu-Thenard A, Chi YW, Soloviy M, Bottini O, Mendyk N, Tessari L, Varghese R, Etcheverry R, Pannier F, Lugli M, Carvallo Lantz AJ, Zamboni P, Zuolo M, Godoy MF, Godoy JM, Link DP, Junger M, Scuderi A. Society for Vascular Surgery and American Venous Forum Guidelines on the management of venous leg ulcers: the point of view of the International Union of Phlebology. *Int Angiol.* 2015 Jun;34(3):202-18.

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Nipavan Chiamvimonvat, M.D.

Title	Professor, Roger Tatarian Endowed Professor of Cardiovascular Medicine Staff Cardiologist at VA Medical Center
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	VA Northern CA Health Care System, Sacramento VA Medical Center, 10535 Hospital Way Mather, CA 95655 Phone: 916-843-7000
Additional Phone	Phone: 916-366-5392 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of Toronto, Toronto, Ontario, Canada 1984
Internships	Internal Medicine, University of Toronto, Toronto, Ontario, Canada 1984-1985
Residency	Internal Medicine, University of Toronto, Toronto, Ontario, Canada 1985-1987
Fellowships	Clinical Cardiac Electrophysiology, University of Calgary, Calgary, Alberta, Canada 1989-1991 Cardiology, University of Western Ontario, Toronto, Ontario, Canada 1987-1989
Board Certifications	American Board of Internal Medicine, 1988 American Board of Internal Medicine, Cardiovascular Medicine, 1989
Professional Memberships	American Heart Association - Chair, Peer Review Committee American Journal of Physiology - Member, Editorial Board, Circulation Research, Heart Rhythm Heart Rhythm Society - Member, Research Committee NIH Special Emphasis Panel - Member NIH T32 Study Section - Member
Honors and Awards	Deans Excellence in Mentoring Award, 2011
Select Recent Publications	To view a detailed list of Dr. Chiamvimonvat's publications, please click here .

Lu L, Timofeyev V, Li N, Rafizadeh S, Singapuri A, Harris TR and Chiamvimonvat N. Alpha-

Nipavan Chiamvimonvat, M.D.

actinin2 cytoskeletal protein is required for the functional membrane localization. 2009;106:18402-7.

Rafizadeh S, Zhang Z, Woltz RL, Kim HJ, Myers RE, Lu L, Tuteja D, Singapuri A, Bigdeli AA, Harchache SB, Knowlton AA, Yarov-Yarovoy V, Yamoah EN and Chiamvimonvat N. Functional interaction with filamin A and intracellular Ca²⁺ enhance the surface membrane expression of a small-conductance Ca²⁺-activated K⁺ (SK2) channel. Proc Natl Acad Sci U S A. 2014;111:9989-94

Timofeyev V, Myers RE, Kim HJ, Woltz RL, Sirish P, Heiserman JP, Li N, Singapuri A, Tang T, Yarov-Yarovoy V, Yamoah EN, Hammond HK and Chiamvimonvat N. Adenylyl cyclase subtype-specific compartmentalization: differential regulation of L-type Ca²⁺ current in ventricular myocytes. Circ Res. 2013;112:1567-76

Sirish P, Li N, Liu JY, Lee KS, Hwang SH, Qiu H, Zhao C, Ma SM, Lopez JE, Hammock BD and Chiamvimonvat N. Unique mechanistic insights into the beneficial effects of soluble epoxide hydrolase inhibitors in the prevention of cardiac fibrosis. Proc Natl Acad Sci U S A. 2013;110:5618-23.

Sirish P, Lopez JE, Li N, Wong A, Timofeyev V, Young JN, Majdi M, Li RA, Chen HS and Chiamvimonvat N. MicroRNA profiling predicts a variance in the proliferative potential of cardiac progenitor cells derived from neonatal and adult murine hearts. J Mol Cell Cardiol. 2012;52:264-72.

Li N, Liu JY, Timofeyev V, Qiu H, Hwang SH, Tuteja D, Lu L, Yang J, Mochida H, Low R, Hammock BD and Chiamvimonvat N. Beneficial effects of soluble epoxide hydrolase inhibitors in myocardial infarction model: Insight gained using metabolomic approaches. J Mol Cell Cardiol. 2009;47:835-45.

Nipavan Chiamvimonvat, M.D.

Lu L, Zhang Q, Timofeyev V, Zhang Z, Young JN, Shin HS, Knowlton AA, Chiamvimonvat N. Molecular coupling of a Ca²⁺-activated K⁺ channel to L-type Ca²⁺ channels via α -actinin2. *Circ Res*. 2007;100:112-120.

Xu D, Li N, He Y, Timofeyev V, Lu L, Tsai HJ, Kim IH, Tuteja D, Mateo RK, Singapuri A, Davis BB, Low R, Hammock BD, Chiamvimonvat N. Prevention and reversal of cardiac hypertrophy by soluble epoxide hydrolase inhibitors. *Proc Natl Acad Sci U S A*. 2006;103:18733-18738.

Xu Y, Tuteja D, Zhang Z, Xu D, Zhang Y, Rodriguez J, Nie L, Tuxson HR, Young JN, Glatter KA, Vazquez AE, Yamoah EN, Chiamvimonvat N. Molecular identification and functional roles of a Ca²⁺-activated K⁺ channel in human and mouse hearts. *J Biol Chem*. 2003;278:49085-49094.

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David Tom Cooke, M.D., F.A.C.S.

Philosophy of Care	Dr. Cooke's theme Song is "Land of Hope and Dreams", by Bruce Springsteen & The E Street Band
Clinical Interests	<p>Dr. Cooke specializes in general thoracic surgery, thoracic oncology, surgical treatment of malignant and benign esophageal disease, video assisted thoracic surgery (VATS) and Robotic surgery with special interest in Robotic pulmonary resection; interventional bronchoscopy, including EBUS and electromagnetic navigational bronchoscopy; EUS, esophageal stenting; tracheal and airway surgery; surgery for mesothelioma, surgical treatment of achalasia, hyperhidrosis surgery, diaphragm plication and diaphragm pacing; complex esophageal reconstruction for discontinuity.</p> <p>Additional interests include student mentoring, and community involvement.</p>
Research/Academic Interests	Dr. Cooke's research interests involve clinical studies including oncologic trials, surgical outcomes/health services research, patient-centered outcomes research, translational research, surgical education and medical social media. Dr. Cooke has authored over 100 scholarly products, including peer-reviewed manuscripts and text-book chapters.
Title	Vice Chair for Faculty Development & Wellness Task-Force Chair Comprehensive Lung Cancer Screening Program Head, Section of General Thoracic Surgery Associate Director Cardiothoracic Robotics Program Associate Professor
Specialty	Cancer , Surgery - Cardiothoracic , Surgery - Thoracic , Surgery - Robotic, Robotic Surgery
Department	Surgery
Division	Cardiothoracic Surgery
Center/Program Affiliation	Cardiovascular Services UC Davis Comprehensive Cancer Center UC Davis Medical Group Center for Healthcare Policy and Research
Address/Phone	UC Davis Medical Center - Cypress Building, 2221 Stockton Blvd. Suite 2112 Sacramento, CA 95817 Phone: 800-2-UCDAVIS
Additional Phone	Clinic Phone: 916-734-3861 Physician Referrals: 800-4-UCDAVIS (800-482-3284)



David Tom Cooke, M.D., F.A.C.S.

Email	thoracic@ucdavis.edu
Education	M.D., Harvard Medical School, Boston MA 1999 B.A., UC Berkeley, Berkeley CA 1994
Internships	Surgery, Massachusetts General Hospital/Harvard Medical School, Boston MA 1999-2000
Residency	Surgery, Massachusetts General Hospital/Harvard Medical School, Boston MA 2000-2006
Fellowships	Cardiothoracic Surgery, Stanford University School of Medicine, Research Fellow, Stanford CA 2002-2004 Cardiothoracic Surgery, University of Michigan School of Medicine, Ann Arbor, MI 2006-2008
Board Certifications	American Board of Surgery American Board of Thoracic Surgery, 2018 California DPH Fluoroscopy X-Ray Sup. and Operator
Professional Memberships	American Association for Thoracic Surgery Fellow, American College of Surgeons Harvard Medical School Alumni Association Massachusetts General Hospital Surgical Society Society of Thoracic Surgeons The International Society for Minimally Invasive Cardiothoracic Surgery Thoracic Surgery Outcomes Research Network
Honors and Awards	Accepted as American College of Surgeons Associate Member of the Academy of Master Surgeon Educators, 2020 2019 UC Davis Deans' Award for Excellence in Equity, Diversity and Inclusion, 2020 UC Davis Department of Surgery Leadership Award Outstanding Faculty Leader Inside and Outside of the Operating Room, 2020 UC Davis Joan Oettinger Memorial Award for outstanding research in cancer, 2020 U.S. News & World Report National Ranking for Pulmonology and Lung Cancer Surgery, 2019, 2020 U.S. News & World Report High Performing Hospitals, Lung Cancer Surgery, 2019, 2020 Sacramento Magazine's 2018 List of Top Doctors, 2018 U.S. News & World Report High Performing Hospitals, Lung Cancer Surgery, 2018, 2019 2017 Deans' Award for Excellence-Inspirational Faculty Educator, 2018 Thoracic Surgery Foundation The Levi Watkins Innovation and Leadership Development Scholarship, 2018



David Tom Cooke, M.D., F.A.C.S.

Sacramento Magazine's 2017 List of Top Doctors, 2017

U.S. News & World Report High Performing Hospitals, Lung Cancer Surgery, 2017, 2018

Castle Connolly Top Doctor in America - Cardiac and Thoracic Surgery, 2015

Elected to Membership to the American Association for Thoracic Surgery, 2015

University of California Alumni Association Excellence in Achievement Award, 2015

Select Recent Publications

To view Dr. Cooke's publications, please click [here](#).

Luc JG, Archer MA, Arora RC, Bender EM, Blitz A, Cooke DT, Elde S, Guy TS, Halpern AL, Harrington C, Ni Hlci T, Kidane B, Olive JK, Ouzounian M, Stamp N, Vervoort D, Varghese TK, Antonoff MB. The Thoracic Surgery Social Media Network Experience During the COVID-19 Pandemic. *Ann Thorac Surg*. 2020 Oct;110(4):1103–1107. Published online 2020 May 18. doi: 10.1016/j.athoracsur.2020.05.006.

Clark JM, Cooke DT, Brown LM. Management of Complications After Lung Resection: Prolonged Air Leak and Bronchopleural Fistula. *Thorac Surg Clin*. 2020 Aug;30(3):347-358. doi:10.1016/j.thorsurg.2020.04.008.

Thoracic Surgery Outcomes Research Network, Inc, Antonoff M, Backhus L, Boffa DJ, Broderick SR, Brown LM, Carrott P, Clark JM, Cooke DT, David E, Facktor M, Farjah F, Grogan E, Isbell J, Jones DR, Kidane B, Kim AW, Keshavjee S, Krantz S, Lui N, Martin L, Meguid RA, Meyerson SL, Mullett T, Nelson H, Odell DD, Phillips JD, Puri V, Rusch V, Shulman L, Varghese TK, Wakeam E, Wood DE. COVID-19 Guidance for Triage of Operations for Thoracic Malignancies: A Consensus Statement from Thoracic Surgery Outcomes Research Network, The Society of Thoracic Surgeons and The American Association for Thoracic Surgery. *J Thorac Cardiovasc Surg*. 2020 Aug;160(2):601-605. doi:10.1016/j.jtcvs.2020.03.061. Epub 2020 Apr 9.

Yanagawa B, Iannacone EM, Kaneko T, Rubens F, Cooke DT. Cardiothoracic Surgical Residency Programs: A Pandemic Playbook. *Innovations (Phila)*. 2020 Jul/Aug;15(4):300-305. doi:10.1177/1556984520937656. Online ahead of print.



David Tom Cooke, M.D., F.A.C.S.

Brown LM, Gosdin M, Cooke DT, Apesoa-Varano EC, Kratz A. Health-Related Quality of Life after Lobectomy for Lung Cancer: Conceptual Framework and Measurement. *Ann Thorac Surg.* 2020 Jul 21;S0003-4975(20)31112-7. doi:10.1016/j.athoracsur.2020.05.080. Online ahead of print.

Erkmen CP, Kane L, Cooke DT. Bias Mitigation in Cardiothoracic Recruitment. *Ann Thorac Surg.* 2020 Jul 18;S0003-4975(20)31171-1. doi:10.1016/j.athoracsur.2020.07.005. Online ahead of print.

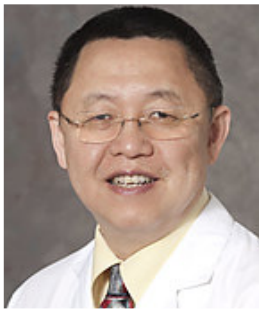
Mustoe MM, Clark JM, Huynh TT, Tong EK, Wolf TP, Brown LM, Cooke DT. Engagement and Effectiveness of a Smoking Cessation Quitline Intervention in a Thoracic Surgery Clinic. *JAMA Surg.* 2020 Jul 1;155(9):1-7. doi:10.1001/jamasurg.2020.1915. Online ahead of print.

Luc JG, Archer MA, Arora RC, Bender EM, Blitz A, Cooke DT, Ni Hlci T, Kidane B, Ouzounian M, Varghese TK, Antonoff MB. Does Tweeting Improve Citations? One-Year Results from the TSSMN Prospective Randomized Trial. *Ann Thorac Surg.* 2020 Jun 3;S0003-4975(20)30860-2. doi:10.1016/j.athoracsur.2020.04.065. Online ahead of print.

Tong EK, Wolf T, Cooke DT, Fairman N, Chen MS Jr. The Emergence of a Sustainable Tobacco Treatment Program across the Cancer Care Continuum: A Systems Approach for Implementation at the University of California Davis Comprehensive Cancer Center. *Int J Environ Res Public Health.* 2020 May;17(9):3241. Published online 2020 May 6. doi:10.3390/ijerph17093241.

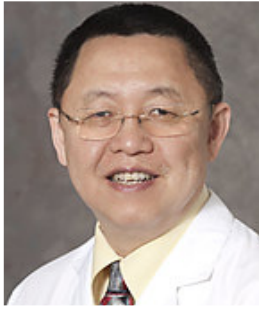
Clark JM, Cooke DT, Chin DL, Utter GH, Brown LM, Nuño M. Does one size fit all? An evaluation of the 2018 Leapfrog Group minimal hospital and surgeon volume thresholds for lung surgery. *J Thorac Cardiovasc Surg.* 2020 May;159(5):2071-2079.e2. doi:10.1016/j.jtcvs.2019.09.082. Epub 2019 Oct 1.

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Dali Fan, M.D., Ph.D.

Philosophy of Care	I want to understand your needs first before I make suggestions to you.
Clinical Interests	Dali Fans research interests include echocardiography guided ablations, echocardiography guide cardiac resynchronization therapy, electrical-mechanical relationship of the left atrium. Clinical application of 2-D echo acoustic marker based tracking and quantification, standardization of digital echo imaging and reporting.
Title	Health Science Clinical Professor
Specialty	Cardiac Electrophysiology, Cardiology , Cardiovascular Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Phone: 800-2-UCDAVIS
Languages	Chinese, English
Education	M.D., Beijing University School of Medicine, Beijing, 1989 M.D., Peking University Medical Science Center, Beijing, CN 1989 Ph.D., Albert Einstein College of Medicine, Bronx, New York, 1996 M.Sc., Albert Einstein College of Medicine, Bronx, New York, 1992 M.D., Peking University Medical Science Center, Beijing, CN 1989
Residency	Albert Einstein College of Medicine, Beth Israel Medical Center, New York, NY, 1999
Fellowships	Albert Einstein College of Medicine, Beth Israel Medical Center, New York, NY, 2002 Massachusetts General Hospital, Boston, Mass., 2004
Board Certifications	American Board of Internal Medicine, 1999 American Board of Internal Medicine, Cardiovascular Disease, 2002 National Board of Echocardiography, Adult Echocardiography, 2004



Dali Fan, M.D., Ph.D.

Professional Memberships

American College of Cardiology
American Heart Association
American Society of Echocardiography
Chinese American Heart Association (CnAHA)

Honors and Awards

Meritorious Service Award, International society of cardiovascular ultrasound, Chinese Ultrasound Doctor Association, 2011

Select Recent Publications

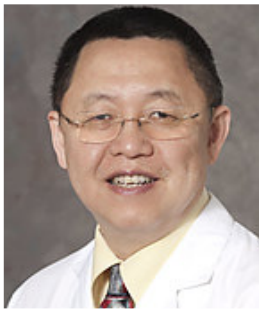
Sharma G, Singh GD, Smith TW, Fan D, Low RI, Rogers JH. Accuracy and procedural characteristics of the standard needle compared with radiofrequency needle transseptal puncture for structural heart interventions. *Catheter Cardiovasc Interv*. 2016 May 24; doi: 10.1002/ccd.26608.

Main ML, Fan D, Reddy VY, Holmes DR, Gordon NT, Coggins TR, House JA, Liao L, Rabineau D, Latus GG, Huber KC, Sievert H, Wright RF, Doshi SK, Douglas PS. Assessment of Device-Related Thrombus and Associated Clinical Outcomes With the WATCHMAN Left Atrial Appendage Closure Device for Embolic Protection in Patients With Atrial Fibrillation (from the PROTECT-AF Trial). *Am J Cardiol*. 2016 Apr 1;117(7):1127-34. doi:10.1016/j.amjcard.2016.01.039. Epub 2016 Feb 1.

Wettersten N, Fan D, Hsia HH. Not Simply Sinus Tachycardia. *Am J Med*. 2015 Sep;128(9):e13-4. doi:10.1016/j.amjmed.2015.04.024. Epub 2015 May 23.

Catanzaro JN, Makaryus JN, Makaryus AN, Sison C, Vavasis C, Fan D, Jadonath R. Echocardiographic predictors of ventricular tachycardia. *Clin Med Insights Cardiol*. 2015 Mar 12;8 (Suppl 4):37-42. doi:10.4137/CMC.S18499. eCollection 2014.8 PMID: 25861227

Fan D, Makaryus JN, Wassef B, Suma V, Masry M, Makaryus AN. Exacerbation of pulmonic regurgitation by diastolic tricuspid regurgitation. *Echocardiography*. 2014 Sep;31(8): E234-9. doi: 10.1111/echo.12673. Epub 2014 Jul 4. PMID: 25041155



Dali Fan, M.D., Ph.D.

Tournoux FB, Alabiad C, Fan D, Chen AA, Chaput M, Heist EK, Mela T, Mansour M, Reddy V, Ruskin JN, Picard MH, Singh JP. Acute hemodynamic response to cardiac resynchronization therapy is predictive of long-term clinical outcome in ischemic and non-ischemic cardiomyopathy. *European Heart Journal*, 28(9): 1143-8. 2007

Makaryus AN, Fan D. Dangerous Feather! *Journal of Cardiovascular Computed Tomography*. 2009 May-Jun;3(3):182-3. Epub 2009 Feb 21.

Suma S, Makaryus AN, Rascon M, Doddamani S, Fan D. Isolated Subacute Effusive And Nonconstrictive Epicarditis Masquerading As A Right Atrial Mass. *Echocardiography* 2009;26(6): 732-5. Epub 2009 Mar 10.

Fan D, Makaryus AN, Hamik A, Finn AV, Isselbacher EM. Prosthetic Valve Dysfunction Presenting as Intermittent Acute Aortic Regurgitation. *Echocardiography*. 2008 Sep;25(8):925-7. Epub 2008 May 13.

Barasch E, Fan D, Chukwu EO, Han J, Passick M, Petillo F, Norales A, Reichek N. Severe isolated aortic stenosis with normal left ventricular systolic function and low transvalvular gradients: pathophysiologic and prognostic insights. *J Heart Valve Dis*. 2008 Jan;17(1):81-8.

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Nobuko Hagiwara, M.S., Ph.D.

Clinical Interests	Nobuko Hagiwara has expertise in the field of molecular genetics. She completed postdoctoral training at the University of Iowa in biological sciences and the University of California, Irvine, in anatomy and neurobiology. She also was a postdoctoral fellow at the Fox Chase Cancer Center Institute for Cancer Research in Philadelphia, PA, and the University of Arizona College of Medicine in Tucson. The Hagiwara lab studies development of the heart and skeletal muscle at the molecular and cellular levels. We are researching the Sox6 mutant heart to understand the progression of early stages of heart failure. A deficiency of the Sox6 transcription factor shows cardiac and skeletal muscle degeneration and arrhythmia. Another interesting phenotype is fiber type distortion in skeletal muscle. Since specialization of slow- and fast-twitch fiber type is crucial for physiological function of skeletal muscle, Sox6 should play an important role in normal fetal muscle development as well as in muscle degenerative diseases. To understand the role of Sox6 in skeletal muscle development, we are investigating downstream targets and cofactors of the Sox6 protein. To conduct our research, we utilize genetic, molecular and cellular biology techniques.
Title	Assistant Professor
Specialty	Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	Ph.D., University of Tokyo, Tokyo, 1995 B.S., Ochanomizu Women's University, Tokyo, 1984 M.S., Ochanomizu Women's University, Tokyo, 1987
Professional Memberships	American Heart Association Society for Developmental Biology Society for Neuroscience
Honors and Awards	Japanese Ministry of Education Scholarship for graduate studies abroad., 1986
Select Recent Publications	Odeh H, Hunker KL, Belyantseva IA, Azaiez H, Avenarius MR, Zheng L, Peters LM, Gagnon LH, Hagiwara N, Skynner MJ, Brilliant MH, Allen ND, Riazuddin S, Johnson KR, Raphael Y, Najmabadi

Nobuko Hagiwara, M.S., Ph.D.

- H, Friedman TB, Bartles JR, Smith RJ, Kohrman DC. Mutations in *Grxcr1* are the basis for inner ear dysfunction in the pirouette mouse. *Am. J. Genet.* 2010;86:148-160.
- Wang Y, Chen L, Hagiwara N, Knowlton AA. Regulation of heat shock protein 60 and 72 expression in the failing heart. *J. Mol. Cell. Cardiol.* 2010;48:360-366.
- Hagiwara, N., Yeh M, and Liu A. (2007) Sox6 is required for normal fiber type differentiation of fetal skeletal muscle in mice. *Dev. Dynamics* 236: 2062-2076
- Yi, Z., Cohen-Barak, O., Hagiwara, N., Kingsley, P.D., Fuchs, D.A., Erickson, D.T., Epner, E.M., Palis, J., and Brilliant, M.H. (2006) Sox6 directly silences epsilon globin expression in definitive erythropoiesis. *PLoS Genetics* 2: e14
- Hagiwara, N., Ma, B., and Ly, A. (2005) Slow and fast fiber isoform gene expression is systematically altered in skeletal muscle of the Sox6 mutant, p100H. *Dev. Dynamics* 234:301-311
- Odeh H, Hagiwara N, Skynner M, Mitchem KL, Beyer LA, Allen N, Brilliant M, Lebart MC, Dolan DF, Raphael Y and Kohrman DC. Characterization of two transgene insertional mutations at pirouette, a mouse deafness focus. *Audiol. neurootol.* 2004;9:303-314.
- Cohen-Barak, O., Yi, Z., Hagiwara, N., Monzen, K., Komuro, I., and Brilliant, M. H. (2003) Sox6 regulation of cardiac myocytes development. *Nuc. Acids Res.* 31: 5941-5948.
- Hagiwara, N., Katarova, Z., Siracusa, L.D., and Brilliant, M.H. (2003) Non-neuronal expression of the GABAA 3 subunit gene is required for normal palate development in mice. *Dev. Biol.* 254:93-101.
- Cohen-Barak, O., Hagiwara, N., Arlt, M.F., Horton, J.P., and Brilliant, M.H. Cloning, characterization and chromosome mapping of the human SOX6 gene. *Gene* 265: 157-164, 2001.
- Newton, J.M., Cohen-Barak, O., Hagiwara, N., Gardner J.M., Davisson, M.T., King, R.A., Brilliant M.H. Mutations in the human orthologue of the mouse underwhite (*uw*) gene underlie a new form of oculocutaneous albinism, OCA4. *Am. J. Hum. Genet.* 69:981-988, 2001.
- Hagiwara, N., Klewer, S.E., Samson, R.A., Erickson, D.T., Lyon, M.F., and Brilliant, M.H. Sox6 is a candidate gene for p100H myopathy, heart block and sudden neonatal death. *Proc. Natl. Acad. Sci. USA* 97: 4180-4185, 2000.

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Nasim Hedayati, M.D., M.A.S., M.S.

Philosophy of Care

Dr. Hedayati works closely with her patients to establish a foundation of trust and optimizes their cardiovascular risk factor modifications and preventative care. She thoroughly discusses surgical and non-surgical options with patients and families so informed decisions are made as a team.

Clinical Interests

Dr. Hedayati's practice is focused on all aspects of vascular disease including treatment of venous disease and varicose veins, peripheral arterial disease, abdominal aortic aneurysm, and carotid artery disease. She uses the latest office-based non-invasive technologies to treat varicose veins and the latest endovascular as well as open surgical techniques for treatment of peripheral arterial disease, carotid artery disease, and abdominal aortic aneurysm.

Research/Academic Interests

Dr. Hedayati's research has focused on outcomes of minimally invasive endovascular peripheral arterial interventions compared to open bypass operations, treatment of patients with arterial and venous insufficiency. She is also interested in exploring outcomes of stem cell therapy for patients with peripheral arterial disease.

Title Medical Director, UC Davis Vein Center
Professor, Department of Surgery

Specialty Vascular Surgery

Department [Surgery](#)

Division Vascular Surgery

Clinic Vascular Surgery Clinic

Center/Program Affiliation [Cardiovascular Services](#)
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Languages Farsi

Education M.D., Chicago Medical School, Chicago IL 1998
M.S., Chicago Medical School, Chicago IL 1994
M.A.S., UC Davis School of Medicine, Sacramento CA 2011



Nasim Hedayati, M.D., M.A.S., M.S.

B.S., UCLA, Los Angeles CA 1993

Internships General Surgery, Case Western Reserve University, Cleveland OH 1998-1999

Residency General Surgery, Case Western Reserve University, Cleveland OH 1999-2005

Fellowships Vascular Surgery, Baylor College of Medicine, Houston TX 2005-2007

Board Certifications American Board of Surgery - General Surgery, 2016
American Board of Surgery - Vascular Surgery, 2018
Medical Board of California
Registered Physician in Vascular Interpretation

Professional Memberships American College of Surgeons - Fellow
American Registry for Diagnostic Medical Sonography
American Venous Forum
Association of VA Surgeons
Association of Women Surgeons
Society for Vascular Surgery
Western Vascular Society

Honors and Awards UC Davis Health, Nursing Excellence Award-Relationships and Teamwork, 2017
Society for Vascular Surgery's Women's Leadership Training Grant, 2016
UC Davis School of Medicine Appreciation Award-Mentoring Medical Research Fellowship Student, 2012
Mentored Clinical Research Training Program (K30), Masters of Advanced Study (MAS) in Clinical Research, 2009, 2010, 2011
Molecular Surgeon Young Investigator Award, Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX, 2006
Annual Resident Research Competition, Cleveland Surgical Society, Second Place Award. Cleveland, OH, 2002
C. Walton Lillehei Resident Forum Presentation, American Association for Thoracic Surgery, San Diego, CA, 2001

Select Recent Publications Kwong M, Hedayati N, Freischlag JA. Cervical Rib Resection. Cervical Spine Surgery: Standard and Advanced Techniques. Cervical Spine Research Society-Europe Instructional Surgical Atlas, Springer, Cham. 2019;58:381-387.



Nasim Hedayati, M.D., M.A.S., M.S.

Simon M, Hedayati N, Pevec WC. Hybrid approach to aneurysms of the pancreaticoduodenal artery associated with the occlusion of the celiac axis. *Ann Vasc Surg.* 2017 Oct;44:414.e11-414.e14. doi:10.1016/j.avsg.2017.04.012. Epub 2017 May 4.

Kwong M, Allen AE, Carson JG, Freischlag JA, Hedayati N. Young female vascular surgeons more likely to enter academia. *J Vasc Surg.* 2017 Aug;66(2):649-660. doi:10.1016/j.jvs.2017.02.055. Epub 2017 Jun 2.

Smeds MR, Duncan AA, Harlander-Locke MP, Lawrence PF, Lyden S, Fatima J, Eskandari MK, Vascular Low-Frequency Disease Consortium. Treatment and outcomes of aortic endograft infection. *J Vasc Surg.* 2016;63(2):332-40. doi:10.1016/j.jvs.2015.08.113.

Humphries MD, A Brunson A, N Hedayati, P Romano, J Melnikow. Amputation Risk in Patients With Diabetes Mellitus and Peripheral Artery Disease Using Statewide Data. *Ann Vasc Surg.* 2016 Jan;30:123-31. doi:10.1016/j.avsg.2015.04.089. Epub 2015 Jul 11.

Humphries MD, Brunson A, Hedayati N, Romano P, Melnkow J. Amputation Risk in Patients with Diabetes Mellitus and Peripheral Artery Disease Using Statewide Data. *Ann Vasc Surg.* 2016 Jan;30:123-31. doi:10.1016/j.avsg.2015.04.089. Epub 2015 Jul 11.

Hedayati N, Brunson A, Li CS, Baker AC, Pevec WC, White RH, Romano PS. Do Women Have Worse Amputation-Free Survival Than Men Following Endovascular Procedures for Peripheral Arterial Disease? An Evaluation of the California State-Wide Database. *Vasc Endovascular Surg.* 2015 Oct;49(7):166-74. doi:10.1177/1538574415608269. Epub 2015 Oct 13.

Tsai TT, Rehring TF, Rogers RK, Shetterly SM, Wagner NM, Gupta R, Jazaeri O, Hedayati N, Jones WS, Patel MR, Ho PM, Go AS, Magid DJ. The Contemporary Safety and Effectiveness of Lower



Nasim Hedayati, M.D., M.A.S., M.S.

Extremity Bypass Surgery and Peripheral Endovascular Interventions in the Treatment of Symptomatic Peripheral Arterial Disease. *Circulation*. 2015 Nov 24;132(21):1999-2011. doi:10.1161/CIRCULATIONAHA.114.013440. Epub 2015 Sep 11.

Hedayati N, Carson JG, Chi YW, Link D. Management of mixed arterial venous lower extremity ulceration: A review. *Vasc Med*. 2015 Oct;20(5):479-86. doi:10.1177/1358863X15594683. Epub 2015 Jul 23.

Jones WS, Patel MR, Tsai TT, Go AS, Gupta R, Hedayati N, Ho PM, Jazaeri O, Rehring TF, Rogers RK, Shetterly SM, Wagner NM, Magid DJ. Anatomic runoff score predicts cardiovascular outcomes in patients with lower extremity peripheral artery disease undergoing revascularization. *Am Heart J*. 2015 Aug;170(2):400-8. doi:10.1016/j.ahj.2015.04.026. Epub 2015 May 2.

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Misty D. Humphries, M.D., M.A.S.

Philosophy of Care

I believe comprehensive vascular care for patients with arterial and venous disease includes management of risk factors as well as disease treatment. I incorporate new research technologies with traditional vascular care, and believe that patients should take an active role in treatment planning.

I also welcome open communication with families in support of a common mission of optimal patient care.

Clinical Interests

Dr. Humphries specializes in open vascular and advanced endovascular treatment for arterial and venous disease. Her primary clinic interest is in endovascular treatment of complex peripheral artery disease, telemedicine, and thoracic outlet syndrome.

Her NIH funded research focuses on prevention of lower extremity amputations for patients in rural clinics with peripheral artery disease and the use of telemedicine to bring multidisciplinary wound care to rural communities.

Research/Academic Interests

Dr. Humphries' research focuses on outcomes and disparities in care for patients with critical limb ischemia.

Her goal is to identify new treatment strategies to prevent limb loss in this population with advanced arterial disease of the lower extremity.

Title Associate Professor, Department of Surgery

Specialty Vascular Surgery

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Misty D. Humphries, M.D., M.A.S.

Education	M.D., Texas A&M University, College Station TX 2003 M.A.S., Clinical Research Studies, UC Davis, Sacramento CA 2014 B.S., Texas A&M University, Corpus Christi TX 1999
Internships	General Surgery, UC Davis School of Medicine, Sacramento CA 2003-2004
Residency	General Surgery, UC Davis School of Medicine, Sacramento CA 2004-2010
Fellowships	Oncologic Research, Sloan Kettering Cancer Center, New York NY 2006-2007 Vascular Surgery, University of Utah, Salt Lake City UT 2010-2012
Board Certifications	American Board of Surgery - General Surgery American Board of Surgery - Vascular Surgery Medical Board of California Registered Physician in Vascular Interpretation
Professional Memberships	American College of Surgeons Association of Program Directors in Vascular Surgery Northern California Vascular Society Pacific Coast Surgical Society Sacramento Surgical Society Society for Vascular Surgery Vascular and Endovascular Surgical Society Western Vascular Society
Honors and Awards	Mentor, Vascular and Endovascular Surgical Society (VESS) Mentorship Development Program, 2019 Advanced Leadership Program UC Davis Medical Center, 2018, 2019 Research Career Development Travel Award, Society for Vascular Surgery Foundation, 2017 NIH-National Research Mentoring Network (NRMN) Proposal Preparation Program at UC Davis, 2016, 2017 Mentor, Western Vascular Society Resident Research Award, 2016 Winner, Pacific Northwest Endovascular Resident Skills Competition, 2010 Elected Class Vice-President, Texas A&M College of Medicine, 1999, 2000, 2001, 2002, 2003 Texas Department of Health Outstanding Rural Scholarship, 1999 Academic Honors, Texas A&M University Corpus Christi, 1999
Select Recent Publications	Lin JC, Humphries MD, Shutz WP, Aalami OO, Fischer UM, Hodgson KJ. Telemedicine Platforms and Their Use in the Coronavirus Disease-19 Era to Deliver Comprehensive Vascular Care. J Vasc



Misty D. Humphries, M.D., M.A.S.

Surg. 2020 Jul 1;S0741-5214(20):31473-7. doi:10.1016/j.jvs.2020.06.051. Online ahead of print.

Utter GH, Dhillon TS, Danielsen BH, Salcedo ES, Shouldice DJ, Humphries MD, White RH. Use of statewide administrative data to assess clinical outcomes: A retrospective cohort study of therapeutic anticoagulation for isolated calf vein thrombosis- Medical Care. Med Care. 2020 Jul;58(7):658-662. doi:10.1097/MLR.0000000000001347.

Lin J, Jeon SY, Romano PS, Humphries MD. Rates and Timing of Subsequent Amputation After Primary Minor Amputation. J Vasc Surg. 2020 Jul;72(1):268-275. doi:10.1016/j.jvs.2019.10.063. Epub 2020 Jan 21.

Lin J, Brunson A, Romano P, Mell M, Humphries MD. Endovascular First Treatment is Associated with Improved Amputation Free Survival in Patients with Critical Limb Ischemia. Circ Cardiovascular Qual Outcomes. 2019 Aug;12(8):e005273. doi:10.1161/CIRCOUTCOMES.118.005273. Epub 2019 Jul 30.

Dayama A, Tsilimparis N, Kolakowski S, Matolo NM, Humphries MD. Clinical outcomes of bypass-first versus endovascular-first strategy in patients with chronic limb threatening ischemia due to infrageniculate arterial disease. J Vasc Surg. 2019 Jan;69(1):156-163.e1. doi:10.1016/j.jvs.2018.05.244.

Rodriguez MC, Realyvasquez A, Galante J, Pevac W, Misty Humphries M. Differences in Aortic Diameter Measurements with Intravascular Ultrasound and Computed Tomography after Blunt Traumatic Aortic Injury. Ann Vasc Surg. 2018 Jul;50:148-153. doi:10.1016/j.avsg.2017.11.056. Epub 2018 Feb 23.

Loja M, Abbot C, Isaccs R, Brawley J, Humphries MD. Stage Definitive Repair after Carotid Blowout: A Case Report. Ann Vasc Surg. 2017 Nov;45:263.e5-263.e9. doi:10.1016/j.avsg.2017.06.031. Epub 2017 Jun 27.



Misty D. Humphries, M.D., M.A.S.

Humphries MD. Creating a Registry for Patients with Thoracic Outlet Syndrome. *Diagnostics (Basel)*. 2017 Jun 17;7(2):36. doi:10.3390/diagnostics7020036.

Russo RM, Girda E, Kennedy, Humphries MD. Two lives, one REBOA: Hemorrhage control for urgent cesarean hysterectomy in a Jehovah's Witness with placenta percreta. *J Trauma Acute Care Surg*. 2017 Sep;83(3):551-553. doi:10.1097/TA.0000000000001602.

Grova MM, Yang AD, Humphries MD, Galante JM, Salcedo ES. Dedicated Research Time During Surgery Residency Leads to a Significant Decline in Self Assessed Clinical Aptitude and Surgical Skills. *J Sur Edu*. 2017 Nov-Dec;74(6):980-985. doi:10.1016/j.jsurg.2017.05.009. Epub 2017 May 19.

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Anne A. Knowlton, M.D.

Clinical Interests

Dr. Anne A. Knowlton specializes in cardiology, with particular interests in atrial fibrillation and heart failure. She graduated from Harvard University magna cum laude with a degree in biology. After earning her medical degree from Yale University and doing her internship and residency training at Boston City Hospital, Dr. Knowlton completed a cardiology fellowship at Boston University Medical Center. She was honored with a National Research Award as a postdoctoral fellow at the Cardiovascular Institute at Boston University School of Medicine from 1984 to 1986.

Research/Academic Interests

Dr. Knowlton has research interests in heat shock protein, apoptosis, heart failure, estrogen and aging. She has written numerous papers and several book chapters on topics related to cardiovascular medicine and serves on the editorial board of the Journal of Heart Disease and Open Autoimmunity.

Synopsis: The research in our laboratory focuses in 4 areas related to the protective properties of heat shock proteins (HSPs), and a developing area of research on aging, estrogen and mechanisms of cardiovascular disease. These four areas of research are:

- 1) Mechanisms underlying the protective properties of HSP72 in the cell, with particular focus of localization of HSP72 to the nucleus with stress.
- 2) Role of HSP60 in apoptosis and heart failure; we are interested in whether HSPs in heart failure paradoxically have a detrimental effect on the heart mediated by the immune system and an inflammatory response.
- 3) Estrogen and the HSPs - regulation of expression of HSPs by estrogen in cardiac myocytes and endothelial cells.
- 4) Estrogen, aging and the cardiovascular system.

We are interested in the interaction of aging and estrogen loss on the expression of HSP72 in the heart, and what impact this has on the response to ischemia. We use simulated ischemia of isolated cardiac myocytes, endothelial cell culture and failing hearts as models in our work. We are particularly interested in protein localization and post-translational modification, and the effect of disease on this.

In studying particular aspects of HSP function we use various molecular methods including yeast-2-hybrid, site-directed mutagenesis and overexpression systems to study the effects of these changes. Our overall goal is to better understand cardiovascular injury in order to develop better treatments.

Title

Professor
Staff Cardiologist at VA Medical Center



Anne A. Knowlton, M.D.

Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
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Additional Phone	Phone: 916-366-5392 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Email	aaknowlton@ucdavis.edu
Education	M.D., Yale University, New Haven CT 1979 Cell Biology, Yale University, New Haven CT 1974-1977 A.B., Harvard University, Boston MA 1974
Internships	Internal Medicine, Boston City Hospital, Boston MA 1979-1980
Residency	Internal Medicine, Boston City Hospital, Boston MA 1980-1982
Fellowships	Cardiology, Boston University Medical Center, Boston MA 1982-1984
Board Certifications	American Board of Internal Medicine, 1984 American Board of Internal Medicine, Cardiology, 1987
Professional Memberships	American College of Cardiology American Heart Association American Physiological Society Council on Basic Science International Society for Heart Research
Honors and Awards	Albrecht Fleckenstein Memorial Award for Distinguished Contribution to Basic Research, International, 2013 Vice Chancellor's Faculty Award for Excellence and Achievement, University of California, Davis, 2007 Patient Service Award, VA Medical Center, 2000



Anne A. Knowlton, M.D.

Select Recent Publications

To view a detailed list of Dr. Knowlton's publications, please [click here](#).

Chen L, Liu T, Tran A, Lu X, Tomilov AA, Davies V, Cortopassi G, Chiamvimonvat N, Bers DM, Votruba M, Knowlton AA. OPA1 mutation and late-onset cardiomyopathy: mitochondrial dysfunction and mtDNA instability. *J Am Heart Assoc.* 2012 Oct;1(5):e003012.

Stice, J.P., L. Chen, S.C. Kim, J.S. Jung, A. L. Tran, T. T. Liu and A.A. Knowlton. 17 β -Estradiol, Aging, Inflammation and the Stress Response in the Female Heart. *Endocrinology*, 2011;152:1589-98

A.S. Pechenino, L. Lin, F. N. Mbai, A. R. Lee, X. M. He, J. N. Stallone and A. A. Knowlton. Impact of Aging vs. Estrogen Loss on Cardiac Gene Expression: Late Estrogen Replacement and Inflammation. *Physiologic Genomics*, 2011; 43:1065-1073

Wang, Y., L. Chen, N. Hagiwara, and A. A. Knowlton. Regulation of Heat Shock Protein (HSP) 60 and 72 Expression in the Failing Heart. *J. Mol. Cell. Cardiol.* 2010;48:360-366

Kim SC, Stice JP, Chen L, Jung JS, Gupta S, Wang Y, Baumgarten G, Trial J, Knowlton AA. Extracellular heat shock protein 60, cardiac myocytes, and apoptosis. *Circ Res.* 2009 Dec 4;105(12):1186-95.

Chen L, Gong Q, Stice JP, Knowlton AA. Mitochondrial OPA1, apoptosis, and heart failure. *Cardiovasc Res.* 2009 Oct 1;84(1):91-9.

Lin L, Kim SC, Wang Y, Gupta S, Davis B, Simon SI, Torre-Amione G, Knowlton AA. HSP60 in heart failure: abnormal distribution and role in cardiac myocyte apoptosis. *Am J Physiol Heart Circ Physiol.* 2007 Oct;293(4):H2238-47.

Bozkurt B, Agoston I, Knowlton AA. Complications of inappropriate use of spironolactone in heart failure: when an old medicine spirals out of new guidelines. *J Am Coll Cardiol.* 2003 Jan 15;41(2):211-4.



Anne A. Knowlton, M.D.

Howell MD, Geraci JM, Knowlton AA. Congestive heart failure and outpatient risk of venous thromboembolism: a retrospective, case-control study. *J Clin Epidemiol.* 2001 Aug;54(8):810-6.

Knowlton AA, Kapadia S, Torre-Amione G, Durand JB, Bies R, Young J, Mann DL. Differential expression of heat shock proteins in normal and failing human hearts. *J Mol Cell Cardiol.* 1998 Apr;30(4):811-8.

Knowlton AA, Brecher P, Apstein CS. Rapid expression of heat shock protein in the rabbit after brief cardiac ischemia. *J Clin Invest.* 1991 Jan;87(1):139-47.

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Lawrence J. Laslett, M.D.

Clinical Interests	Lawrence J. Laslett specializes in general cardiology, providing both short- and long-term cardiac care. His practice focuses on acute-care cardiac problems, (particularly coronary disease), including diagnostic catheterization, coronary angioplasty and stent placement. Laslett's research involves the effects of angiographic contrast on left ventricular function and dynamic resistance exercise on myocardial oxygen supply and demand. He is also assessing post-thrombosis coronary anatomy, potential myocardial injury from high-intensity endurance running, and the impact of serologic infarct markers on prognosis for "rule out" MI patients.
Title	Professor Emeritus
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Center/Program Affiliation	Cardiovascular Services UC Davis Medical Group
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., University of Iowa College of Medicine, Iowa City, Iowa, 1969 B.S., Iowa State University, Ames, Iowa, 1964
Internships	Hennepin County General Hospital, Minneapolis, Minnesota, 1970
Residency	University of California, Davis Medical Center, Sacramento, California, 1976
Fellowships	University of California, Davis Medical Center, Sacramento, California, 1978
Board Certifications	American Board of Internal Medicine, 1976 American Board of Internal Medicine, Cardiovascular Medicine, 1981
Professional Memberships	American College of Cardiology American Heart Association
Honors and Awards	Service Award, California Chapter, American College of Cardiology, 2000 Kaiser Foundation Annual Award for Excellence in Clinical Science Teaching, 2000



Lawrence J. Laslett, M.D.

Select Recent Publications

- Hawkes WC, Laslett LJ. Selenium supplementation does not improve vascular responsiveness in healthy North American men. *American Journal Physiology Heart Circulation Physiology* 2009; 296:H256-H262.
- Hecker JG, Laslett L, Campbell E, Nunnally M, O'Connor A, Ellis JE, Frogel JK, Fleisher LA. Catastrophic Cardiovascular Collapse During Carotid Endarterectomy. *Journal of Cardiothoracic and Vascular Anesthesia* 2006;20:259-268.
- Wang H, Laslett LJ, Richman CM, Wun T. Acute myocardial infarction in hemoglobin SC disease. *Annals of Hematology* 2004;83:622-624.
- Laslett L. Did you know? Chelation therapy: New proof of lack of efficacy. *Preventive Cardiology* 2002;2:91-92.
- Laslett L. Exercise electrocardiography in the asymptomatic patient. Chapter 8 in: Ellestad MH, Amsterdam EA, Exercise Testing. *New Concepts for the New Century*. Kluwer Academic Publishers, Boston, 2002
- Amsterdam EA, Laslett L, Diercks D, Kirk JD. Reducing the knowledge-practice gap in the management of patients with cardiovascular disease. *Preventive Cardiology* 2002;1:12-15.
- Schaefer S, SD Correa, L Laslett, RJ Valente. Blockade of adenosine receptors with aminophylline limits ischemic preconditioning in man. *American Heart Journal* 142:E4, 2001.
- Laslett L, Eisenbud E. Lack of detection of myocardial injury during competitive races of 100 miles lasting 18 to 30 hours. *American Journal of Cardiology* 1997;80:379-380
- Laslett L. Risk for exercise-induced myocardial injury for athletes performing prolonged strenuous endurance exercise - Reply. *American Journal of Cardiology* 1997;80:544
- Laslett L, Eisenbud E, Lind R. Evidence of Myocardial Injury During Prolonged Strenuous Exercise. *American Journal of Cardiology* 1996;78:488-490
- Laslett L. Normal left coronary artery diameter can be predicted from diameters of its branch vessels *Clinical Cardiology* 1995;18:580-582
- Schaefer A, R Valente, Laslett L, JC Longhurst. Cardiac reflex effects of intracoronary bradykinin in humans *Journal of American Coll. Cardiology Invest. Medicine* 1995;44:160-176

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William R. Lewis, M.D.

Clinical Interests	William R. Lewis' study of immediate exercise treadmill testing of chest pain patients in the emergency room has shown the safety and efficacy of this care pathway. He continues to be interested in appropriateness and accuracy of stress testing in selected populations.
Research/Academic Interests	Dr. Lewis is interested in immediate exercise testing for chest pain patients and the utility of noninvasive testing in subgroups (ie left bundle branch block).
Title	Health Sciences Clinical Professor, Division of Cardiovascular Medicine
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Clinic	UC Davis Heart Center
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., Duke University School of Medicine, Durham NC 1985 B.S., UC Davis, Davis CA 1978
Internships	Internal Medicine, UC Davis Medical Center, Sacramento CA 1986-1987
Residency	Internal Medicine, UC Davis Medical Center, Sacramento CA 1987-1989
Fellowships	Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 1989-1993
Board Certifications	American Board of Internal Medicine, 1989 American Board of Internal Medicine, Cardiovascular Medicine, 2011
Professional Memberships	American College of Cardiology California Chapter of the American College of Cardiology Sierra Sacramento Valley Medical Association



William R. Lewis, M.D.

Select Recent Publications

Figuroa JA, Mansoor JK, Allen RP, Davis CE, Walby WF, Aksenov AA, Zhao W, Lewis WR, Schelegle ES. Exhaled volatile organic compounds in individuals with a history of high altitude pulmonary edema and varying hypoxia-induced responses. *J Breath Res.* 2015 Apr 20;9(2):026004.

Bukkapatnam RN, Gabler NB, Lewis WR. Statins for primary prevention of cardiovascular mortality in women: a systematic review and meta-analysis. *Prev Cardiol.* 2010 Spring;13(2):84-90.

Lewis WR. The politics of health care. *Rev Cardiovasc Med.* 2010 Winter;11(1):41-2.

Sauvé MJ, Lewis WR, Blankenbiller M, Rickabaugh B, Pressler SJ. Cognitive impairments in chronic heart failure: a case controlled study. *J Card Fail.* 2009 Feb;15(1):1-10.

Karnik RS, W Lewis, P Miles, L Baker. The effect of beta-blockade on heart rate recovery following exercise stress echocardiography. *Preventive Cardiology* 11(1):26-28, 2008.

Lewis WR, Ganim R, Sabapathy R. Utility of stress echocardiography in identifying significant coronary artery disease in patients with left bundle-branch block. *Crit Pathw Cardiol.* 2007 Sep;6(3):127-30.

Lewis WR and EA Amsterdam. Predictive instruments, critical care pathways, algorithms, and protocols in the rapid evaluation of chest pain. *Critical Pathways in Cardiology*; 4:30-36, 2005.

Amsterdam EA, Kirk JD, Diercks DB, Lewis WR, Turnipseed SD. Exercise testing in chest pain units: rationale, implementation, and results. *Cardiol Clin.* 2005 Nov;23(4):503-16, vii. Review.

Amsterdam EA, JD Kirk, DB Diercks, SD Turnipseed, and WR Lewis. Early exercise testing for risk stratification of low-risk patients in chest pain centers. *Critical Pathways in Cardiology*; 3(3):114-120, 2004.

Lewis WR. Echocardiography in the evaluation of patients in chest pain units. *Cardiol Clin.* 2005



William R. Lewis, M.D.

Nov;23(4):531-9, vii. Review.

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Tehani Anne Liyanage, M.B.B.S.

Clinical Interests	As well as providing general anesthesia, Dr. Liyanage also administers anesthesia to obstetric, neuro, geriatric and vascular patients. Dr. Liyanage's future research interests are in neuro anesthesiology.
Title	Assistant Clinical Professor
Specialty	Anesthesiology
Department	Anesthesiology and Pain Medicine
Division	General Anesthesiology
Center/Program Affiliation	Cardiovascular Services
Address/Phone	UC Davis Medical Center, 2315 Stockton Blvd. Sacramento, CA 95817 Phone: 800-2-UCDAVIS (800-282-3284)
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Sinhalese
Education	M.B.B.S., University of Kelaniya, Ragama, 1998
Internships	National Hospital, Colombo, 1999-2000 UC Davis Medical Center, Sacramento, California, 2004-2005
Residency	National Hospital, Colombo, 2001-2002 UC Davis Medical Center, Sacramento, California, 2005-2008
Board Certifications	American Board of Anesthesiology, 2009
Professional Memberships	American Society of Anesthesiologists California Society of Anesthesiologists Kaplan Honorary Society

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Javier Lopez, M.D.

Clinical Interests Javier E. Lopez is interested in studying how soluble factors may regulate the transition of cardiac myocytes from regeneration during fetal growth to hypertrophic growth postnatally. It is postulated that the lack of cardiac regeneration in the postnatal heart confounds the myocyte dysfunction, cell death and tissue fibrosis that is associated with decompensated heart failure. Our global hypothesis is that by manipulating the cardiac gene program of the failing heart with soluble factors (drugs), we may augment endogenous and/or transplanted cardiac myocyte regeneration to ameliorate the progression of left and/or right ventricular failure. My laboratory focus is in studying the fundamental mechanisms of this growth transition to enhance the translational efficacy of soluble factors (drugs) and cell-based strategies (stem-cells) for cardiac regeneration in the failing heart.

Title Assistant Adjunct Professor

Specialty [Cardiology](#), [Cardiovascular Medicine](#), Internal Medicine

Department [Internal Medicine](#)

Division Cardiovascular Medicine

Center/Program Affiliation [Cardiovascular Services](#)

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Phone: 800-282-3284

Additional Phone Physician Referrals: 800-4-UCDAVIS (800-482-3284)

Education M.D., Temple University School of Medicine, Philadelphia, Pennsylvania, 1999

Internships University of Texas Southwestern, Parkland Hospital, Dallas, Texas, 2000

Residency University of Texas Southwestern, Parkland Hospital, Dallas, Texas, 2002

Fellowships UC Davis, Sacramento, California, 2009
UC San Francisco, San Francisco, California, 2006
UC San Francisco, San Francisco, California, 2007



Javier Lopez, M.D.

Board Certifications

American Board of Internal Medicine, 2002
American Board of Internal Medicine, Cardiovascular Medicine, 2010

Professional Memberships

Alpha Omega Alpha
Fellow and Scholar, Sarnoff Endowment for Cardiovascular Research
Member, American Heart Association, Basic Science Council
Member, International Society for Stem Cell Research

Select Recent Publications

Sirish P, Li N, Liu J, Lee K, Hwang SH, Qiu H, Ma S, Lpez JE, Hammock BD, Chiamvimonvat N: Unique Mechanistic Insights into the Beneficial Effects of Soluble Epoxide Hydrolase Inhibitors in the Prevention of Cardiac Fibrosis. Proc Natl Acad Sci U S A, 2013

Watt C, Sirish P, Chiamvimonvat N, López JE: MicroRNAs as a window into cellular processes occurring soon after acute myocardial infarction. World Congress of Heart Disease (Abstract) 2012.

Lopez JE, Myagmar BE, Swigart PM, Montgomery MD, Haynam S, Bigos M, Rodrigo M, Simpson PC. Beta-Myosin Heavy Chain Is Induced by Pressure Overload in a Minor Sub-Population of Smaller Mouse Cardiac Myocytes. Circulation Research. 2011, 109:629-638.

Sirish P, Lpez JE, Li N, Wong A, Timofeyev V, Young JN, Majdi M, Li RA, Chen HS, Chiamvimonvat N. (2012). MicroRNA profiling predicts a variance in the proliferative potential of cardiac progenitor cells derived from neonatal and adult murine hearts. J Mol Cell Cardiol. Jan;52(1):264-72. Epub 2011 Oct 20.

Timofeyev V, Porter CA, Tuteja D, Qiu H, Li N, Tang T, Singapuri A, Han PL, Lopez JE, Hammond KH, and Chiamvimonvat N. Disruption of Adenylyl Cyclase Type V does not Rescue the Phenotype of Cardiac-Specific Over-Expression of Gaq Protein-Induced Cardiomyopathy. American Journal of Physiology. 2010, 299(5):H1459-67.

Lopez JE, Yeo K, Caputo G, Buonocore MH and Schaefer S. Recovery of methamphetamine-associated cardiomyopathy using late gadolinium contrast enhanced magnetic resonance imaging: case report. 2009. Journal of cardiovascular MR. 11:46.

Epting CL*, Lopez JE*, Pendersen A, Brown C, Spitz P, Ursell PC, and Bernstein HS. Stem cell antigen-1 regulates the tempo of muscle repair through effects on proliferation of a7 integrin-expressing myoblasts. 2008. Experimental Cell Research. 314: 1125-1135. 2008. *co-authors listed alphabetically.

Lopez JE, Myagmar BE, Swigart P, Bigos M, Rodrigo M, Simpson PC. Beta-Myosin Heavy Chain induction after pressure overload is in a minor sub-population of myocytes and requires the Alpha-1A-Adrenergic Receptor. 2007. Circulation Supplement. 116(II) 19. Abstract.



Javier Lopez, M.D.

Epting CL, Lopez JE, Shen X, Liu L, Bristow J, and Bernstein HS. Stem cell antigen-1 is necessary for cell-cycle withdrawal and myoblast differentiation in C2C12 cells. 2004. Journal of Cell Science. 117(25): 6185-6195.

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Reginald Low, M.D.

Clinical Interests	Reginald Low is a nationally recognized clinical investigator in cardiology who incorporates the best of leading-edge technology with the highest quality of patient care. His research focuses on coronary artery disease and developing minimally invasive methods of diagnosis and treatment.
Title	Chief of Cardiovascular Medicine Director of the Heart Center Professor Lum and Dere Endowed Professor in Cardiovascular Medicine
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine, Interventional Cardiology
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., UC Davis School of Medicine, Sacramento, California, 1975 B.A., UCLA, Los Angeles, California, 1969
Internships	University of California, Davis Medical Center, Sacramento, California, 1975-76
Residency	University of California, Davis Medical Center, Sacramento, California, 1976-78
Fellowships	University of California, Davis Medical Center, Sacramento, California, 1978-80
Board Certifications	American Board of Internal Medicine, 1978 American Board of Internal Medicine, Cardiovascular Medicine, 1981
Professional Memberships	American College of Angiology American College of Cardiology American College of Chest Physicians American College of Laser Medicine and Surgery



Reginald Low, M.D.

Select Recent Publications

American Heart Association

Sacramento-El Dorado County Medical Society

Treede H, Tubler T, Reichensperner H, Grube E, Pascotto A, Franzen O, Mueller R, Low R, Bolling SF, Meinertz T, Schofer J. Six-month results of a repositionable and retrievable pericardial valve for transcatheter aortic valve replacement: the Direct Flow Medical aortic valve. *J Thorac Cardiovasc Surg* 2010 Oct;140(4):897-903.

feldman T, Kar S, Rinaldi M, Fail P, Hermiller J, Smalling R, Whitlow PL, Gray W, Low R, Herrmann HC, Lim S, Foster E, Glower D, for the EVEREST Investigators. Percutaneous mitral repair with the MitraClip system: safety and midterm durability in the initial EVEREST (endovascular Valve Edge-to-Edge REpair Study) cohort. *Journal of the American College of Cardiology* 2009; 54:686-694.

Li N, liu JY, Timofeyev V, Qiu H, Hwang SH, Tuteja D, Lu L, Yang J, Mochida H, Low R, Hammock BD, Chiamvimonvat N. Beneficial effects of soluble epoxide hydrolase inhibitors in myocardial infarction model: Insight gained using metabolomic approaches. *J Mol Cell Cardiol* 2009 Dec;47(6):835-45.

Rogers JH, Rahdert DA, Caputo GR, Takeda PA, Palacios IF, Tio FO, Taylor EA, Low RI. Long-term safety and durability of percutaneous septal sinus shortening (The PS2 System) in an ovine model. *Catheterization and Cardiovascular Interventions* 2009; 73:540-548.

Taneja M, Tay KH, sebastian M, Pasupathy S, Lin SE, Teo T, Low R, Irani FG, Chng SP, Dewan A, Tan BS. Self-expanding nitinol stents in recanalisation of long-length superficial femoral artery occlusions in patients with critical limb ischaemia. *Singapore Med J* 2009 Dec;50(12):1184-8.

Low RI, Bolling SF, Yeo KK, Ebner A. Direct flow medical percutaneous aortic valve: proof of concept. *EuroIntervention* 2008;4(2):256-261.

Fellmeth, B.D., Baron, S.B., Brown, P.R., Ang, J.G., Clayson, K.R., Morrison, S.L., Low, R. Repair of postcatheterization femoral pseudoaneurysms by color flow ultrasound guided compression *AHJ* 1992 Feb;123(2):547-51

Lee, G., Reis, R.L., Boggan, M.D., Chan, M.C., Lee, M.H., Low, R., Hannah, H. 3d, Mason, C.T. Laser recanalization in severe end-stage peripheral vascular disease *American Journal of Cardiology* 1987 Feb 1;59(4):386-7

Low, R., Takeda, P., Lee, G., Mason, D.T. Potential efficacy of calcium antagonists and heparin in patients with embolic strokes *American Heart Journal* 1986 Dec; 112(6):1338-9

Lee, G., Ikeda, R.M., Chan, M.C., Lee, M.H., Rink, J.I., Reis, R.L. Theis, J.H., Low, R., Bommer, W.



Reginald Low, M.D.

J., Kung, A.H., et al. Limitations, risks and complications of laser recanalization: a cautious approach warranted. American Journal of Cardiology 1985; Ju

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Lindsey Helen Malik, D.O.

Title	Associate Physician
Specialty	Cardiovascular Medicine
Department	Internal Medicine UC Davis Medical Group
Division	Cardiovascular Medicine
Clinic	UC Davis Medical Group, Davis
Center/Program Affiliation	Cardiovascular Services UC Davis Medical Group
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Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	D.O., Western University of Health Sciences- College of Osteopathic Medicine of the Pacific, Pomona CA 2010 B.S., University of Miami, Miami FL 2005
Internships	Internal Medicine, University of Illinois, Chicago IL 2010-2011
Residency	Internal Medicine, University of Illinois, Chicago IL 2011-2013
Fellowships	Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 2013-2016
Board Certifications	American Board of Internal Medicine, 2013 American Board of Internal Medicine, Cardiovascular Medicine, 2016 National Board of Echocardiography, 2016
Select Recent Publications	Malik LH, Singh GD, Amsterdam EA. Chagas Heart Disease: An Update. Am J Med. 2015 Nov;128(11):1251.e7-9. Epub 2015 Jun 4. Malik LH, Singh GD, Amsterdam EA. The Epidemiology, Clinical Manifestations, and Management of Chagas Heart Disease. Clin Cardiol. 2015 Sep;38(9):565-9.



Lindsey Helen Malik, D.O.

Malik LH, Singh GD, Amsterdam EA. T-wave tease: apical hypertrophic cardiomyopathy. *Am J Med.* 2014 Jun;127(6):498-500.

Duong TN, Malik L, Venugopal S, Amsterdam EA. Fulminant but Not Fatal. *Am J Med.* 2016 Jul; 129(7):e47-9. Epub 2016 Apr 11.

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Peter G. Moore, M.D., Ph.D.

Clinical Interests	Dr. Moore's clinical and research interests involve cardiovascular and thoracic anesthesia as well as lung transplant anesthesia, subjects on which he has published widely in books and journals.
Research/Academic Interests	Dr. Moore has also conducted research investigating hypertonic saline, airway thermal volume in humans and its relation to body size, and the effects of calcitonin-gene related peptide (CGRP) and adenosine on regional coronary conductance in dogs with ventricular pacing.
Title	Professor
Specialty	Anesthesiology, Pain Medicine
Department	Anesthesiology and Pain Medicine
Division	General Anesthesiology
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Patient Support Services Building, 4150 V St. Suite 1200 Sacramento, CA 95817 Phone: 916-734-5031
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of Sydney, Sydney, New South Wales, 1972 Ph.D., University of Newcastle, Callaghan, New South Wales, 1991 B.S., University of Sydney, Sydney, New South Wales, 1972
Residency	Royal Brisbane Hospital, Brisbane, Australia, 1972 Royal Newcastle Hospital, Newcastle, Australia, 1973
Fellowships	Australian and New Zealand College of Anaesthetists, Melbourne, Australia, 1992 Royal Australasian College of Surgeons, Melbourne, Australia, 1977
Professional Memberships	American Association for the Advancement of Science American Medical Association American Society of Anesthesiologists American Society of Echocardiography Association of Anesthesia Clinical Directors Association of Anesthesiology Program Directors & Society of Academic Anesthesiology Chairs Association of University Anesthesiologists



Peter G. Moore, M.D., Ph.D.

Select Recent Publications

International Anesthesia Research Society

Society of Cardiovascular Anesthesiologists

Zhong C, Fleming NW, Lu X, Moore P and H Liu. Age-associated differences in gene expression in response to delayed anesthetic preconditioning. *Age*, 2012; (34) 1459-1472.

Lu X, Moore PG, Liu H, Schaefer S. Phosphorylation of ARC is a critical element in the antiapoptotic effect of anesthetic preconditioning. *Anesth Analg*, 2011; 112(3): 525-31.

Liu H, Moore PG. KATP channel blocker does not abolish the protective effect of Na/H exchange 1 inhibition against ischaemia/reperfusion in aged myocardium. *Eur J Anaesthesiol*, 2010; 27(8): 740-6.

Macres SM, Moore PG, Fishman SM: *Acute Pain Management*, Barash, Cullen, Stoelting, Cahalan and Stock, 6th edition, (ed), *Clinical Anesthesia*, 2009; Vol. Chapter 57, pp.1473-1504.

Konia M, Uppington J, Moore P, Liu H. Ascending aortic pseudoaneurysm: a late complication of coronary artery bypass. *Anesth Analg*, 2008; 106(3): 767-8.

Nguyen NT, Ho HS, Fleming NW, Moore P, Lee SJ, Goldman CD, Cole CJ, Wolfe BM. Cardiac function during laparoscopic vs open gastric bypass. *Surg Endosc*, 2002; 16(1): 78-83.

P.G. Moore, Quail, A. W., Cottee, D.B., McIlveen S.A., and White, S.W. Effect of Fentanyl on baroreflex control of circumflex coronary conductance. *Clinical and Experimental Pharmacology and Physiology*, (2000) 27, 1034-1038.

Porges, W.L., Hennessy, E.J., Quail, A.W., Cottee, David B.F., Moore, P.G. McIlveen, S.A., G.H. Parsons and S.W. White. Heart-Lung interactions: The sigh and autonomic control in the bronchial and coronary circulations. *Clinical and Experimental Pharmacology and Physiology* (2000) 27, 1022-1027.

Cottee, D.B., Quail, A., Porges, W.L., P.G. Moore and S.W. White. Effects of anaesthesia on regional coronary control mechanisms. *Clinical and Experimental Pharmacology and Physiology* (2000) 27, 1034-1038.

Kien ND, Reitan JA, Moore PG. Hypertonic saline: current research and clinical implications. *Seminars in Anesthesia, Perioperative Medicine and Pain*, 1998; 17(3): 167-173.

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Nayereh Pezeshkian, M.D.

Philosophy of Care	I consider the highlight of my work at UCDCM the performance of a wide variety of complex invasive electrophysiologic (EP) procedures. Of great importance, our patients are experiencing arrhythmia-free survival off of antiarrhythmic drugs after ablation for atrial fibrillation and ventricular tachycardia.
Clinical Interests	Cardiac electrophysiology, the science of elucidating, diagnosing, and treating the electrical activities of the heart. Performing a wide variety of invasive procedures including mapping and ablation of SVT, VT, and atrial fibrillation, ; device implantation including cardiac resynchronization.
Research/Academic Interests	My clinical and research interests focus on ventricular tachycardia in a normal heart and sudden cardiac death.
Title	Professor, Cardiac Electrophysiology
Specialty	Cardiovascular Medicine , Cardiac Electrophysiology
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services Coronary Heart Disease Reversal Program
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284 UC Davis Medical Center, 2315 Stockton Blvd. Sacramento, CA 95817 Phone: 800-2-UCDAVIS (800-282-3284)
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., Shaheed Beheshti University of Medical Sciences, Tehran, Iran 1992
Internships	Internal Medicine, Hennepin County Medical Center, Minneapolis MN 1995-1996
Residency	Internal Medicine, Hennepin County Medical Center, Minneapolis MN 1996-1998
Fellowships	Cardiac Electrophysiology, Krannert Institute of Cardiology, Indianapolis IN 2005-2007



Nayereh Pezeshkian, M.D.

Cardiovascular Disease, University of Minnesota, Minneapolis MN 1998-2001

Board Certifications

American Board of Internal Medicine, 1998
American Board of Internal Medicine, Cardiac Electrophysiology, 2008
American Board of Internal Medicine, Cardiovascular Medicine, 2001

Professional Memberships

American Society of Echocardiography
Heart Rhythm Society

Select Recent Publications

Srivatsa UN, Danielsen B, Anderson I, Amsterdam E, Pezeshkian N, Yang Y, White RH. Risk predictors of stroke and mortality after ablation for atrial fibrillation: the California experience 2005-2009. *Heart Rhythm*. 2014 Nov;11(11):1898-903. Epub 2014 Jul 15.

Miller JM, Pezeshkian NG, Yadav AV. Catheter mapping and ablation of right ventricular outflow tract ventricular tachycardia. *J Cardiovasc Electrophysiol*. 2006 Jul;17(7):800-2.

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Gary Wayne Raff, M.D.

Philosophy of Care	I provide the type of care for my patients that I expect to have for my own children. My goal is to treat patients in a safe and cost effective way that allows them to grow and thrive.
Clinical Interests	Dr. Raff is a senior pediatric cardiothoracic surgeon with over 20 years of experience. He has had special interest in treating patients with complex congenital heart disease, especially those with complex newborn lesions. Dr. Raff has also been active in developing self sustaining congenital heart surgery programs in other countries including in Russia and Mexico. Dr. Raff also has special expertise in chest wall anomalies and their treatments, both surgical and non-surgical.
Research/Academic Interests	Dr. Raff has had an interest in factors that lead to pulmonary hypertension and the mechanisms of pulmonary hypertension in children with and without congenital heart disease. He has been actively involved in research in this area for almost 20 years. He has a special interest in unusual congenital heart condition and long term neurologic outcomes in patients after congenital heart surgery. Dr. Raff also is keenly interested in using strategies to reduce pain and limit narcotic use. He is a national expert on the use of cryoanalgesia therapy in the thorax.
Title	Co-Chair, Children's Hospital Multidisciplinary Continuous Quality Assurance Committee Surgical Director, Pediatric Heart Center Chief, Division of Pediatric Cardiothoracic Surgery Professor of Clinical Surgery
Specialty	Surgery - Thoracic , Pediatric Cardiac Surgery, Pediatric Surgery, Surgery - Cardiothoracic
Department	Surgery
Division	Cardiothoracic Surgery Pediatric Surgery
Center/Program Affiliation	Cardiovascular Services Pediatric Heart Center UC Davis Children's Hospital
Address/Phone	Glassrock Building, 2521 Stockton Blvd. Suite 3200 Sacramento, CA 95817
Additional Phone	Clinic Phone: 916-734-3456 Clinic Phone: 916-734-2680 Clinic Fax: 916-734-0424 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., Hahnemann University School of Medicine, Philadelphia PA 1990 Leadership Development for Physician in Academic Health, Harvard University, New York NY



Gary Wayne Raff, M.D.

2018

Mid-Career Leadership Program, UC Davis School of Medicine, Sacramento CA 2010

B.S., State University of New York, Stony Brook, Stony Brook NY 1985

Internships University of Medicine and Dentistry of New Jersey, Newark NJ 1990-1996

Residency Thoracic Surgery, University of Medicine and Dentistry of New Jersey, Newark NJ 1996-1998

Administrative Chief Resident in Surgery, University of Medicine and Dentistry of New Jersey, Newark NJ 1992-1993

Administrative Chief Resident in Thoracic Surgery, University of Medicine and Dentistry of New Jersey, Newark NJ 1997-1998

Fellowships Pediatric Cardiac Surgery (Clinical and Research), Children's Hospital of Philadelphia, Philadelphia PA 1998-2000

Surgery, University of Medicine and Dentistry of New Jersey, Newark NJ 1995-1996

Research Fellow in Surgery, University of Medicine and Dentistry of New Jersey, Newark NJ 1992-1993

Board Certifications American Board of Thoracic Surgery

CA Medical Board, License

Fluoroscopy: X-Ray Supervisor and Operator

Professional Memberships American Board of Thoracic Surgeons

American College of Cardiology

American College of Surgeons

American Medical Association

Northern California Chapter

Pediatric Cardiac Intensive Care Society

Society of Thoracic Surgeons

Honors and Awards Faculty Excellence in Medical Student Education, UC Davis Medical Center, 2020

Deans Excellence Award, UC Davis Medical Center, 2010

Winner 1994 Resident's Trauma Paper Competition (New Jersey Committee on Trauma of the American College of Surgeons), 1994

Letter of Recognition, Stony Brook Volunteer Ambulance Corps., 1985

Service Citation, Stony Brook Volunteer Ambulance Corps., 1985

Dean's List - State University of New York, Stony Brook, NY, 1981, 1982, 1983, 1984, 1985

Select Recent Publications Zhu T, Chiacchia S, Kameny RJ, Garcia De Herreros A, Gong W, Raff GW, Boehme JB, Maltepe E, Lasheras JC, Black SM, Datar SA, Fineman JR. Mechanical Forces Alter endothelin-1 Signaling:



Gary Wayne Raff, M.D.

Comparative Ovine Models of Congenital Heart Disease. *Pulm Circ.* 2020 May 14;10(2):2045894020922118. doi:10.1177/2045894020922118. eCollection 2020 Apr-Jun. PMID:32489641.

Guenther TM, Sherazee EA, Wisneski AD, Gustafson JD, Wozniak CJ, Raff GW. Anomalous Origin of the Right Coronary Artery From the Pulmonary Artery: A Systematic Review. *Ann Thorac Surg.* 2020 Mar 7:S0003-4975(20)30352-0. doi:0.1016/j.athoracsur.2020.01.082. Online ahead of print. PMID:32156586.

Guenther T, Godoy L, Chen S, Yeh J, Raff G. Left Ventricle to Right Atrial Shunt Associated with Ventricular-Atrial Malalignment, Double Outlet Right Atrium, and Subaortic Membrane. *Semin Thorac Cardiovasc Surg.* 2020 Spring;32(1):140-142. doi:10.1053/j.semtcvs.2019.09.004. Epub 2019 Sep 11. PMID:31520731.

Johnson Kameny R, Datar SA, Boehme JB, Morris C, Zhu T, Goudy BD, Johnson EG, Galambos C, Raff GW, Sun X, Wang T, Chiacchia SR, Lu Q, Black SM, Maltepe E, Fineman JR. Ovine Models of Congenital Heart Disease and the Consequences of Hemodynamic Alterations for Pulmonary Artery Remodeling. *Am J Respir Cell Mol Biol.* 2019 May;60(5):503-514. doi:10.1165/rcmb.2018-0305MA. PMID:30620615.

Morris CJ, Kamney RJ, Boehme J, Gong W, He Y, Zhu T, Maltepe E, Raff GW, Fineman JR, Datar SA. KFL2-mediated Disruption of PPAR Signaling in Lymphatic Endothelial Cells Exposed to Chronically Increased Pulmonary Lymph Flow. *Am J Physiol Heart Circ Physiol.* 2018 Jul 1;315(1):H173-H181. doi:10.1152/ajpheart.00635.2017. Epub 2018 Apr 6. PMID:29631374.

Kameny RJ, He Y, Zhu T, Gong W, Raff GW, Chapin CJ, Datar SA, Boehme J, Hata A, Fineman JR. Analysis of the microRNA signature driving adaptive right ventricular hypertrophy in an ovine model of congenital heart disease. *Am J Physiol Heart Circ Physiol.* 2018 Jun 15. doi:10.1152/ajpheart.00057.2018. Epub ahead of print. PMID:29906222.



Gary Wayne Raff, M.D.

Kabagambe SK, Goodman LF, Chen YJ, Keller BA, Becker JC, Raff GW, Stark RA, Stephenson JT, Rahm A, Farmer DL, Hirose S. Subcutaneous local anesthetic infusion could eliminate use of epidural analgesia after the Nuss procedure. *Pain Manag.* 2018 Jan;8(1):9-13. doi:10.2217/pmt-2017-0042. Epub 2017 Dec 6. PMID:29210330.

Graves CE, Hirose S, Raff GW, Iqbal CW, Imamura-Ching J, Christensen D, Fechter R, Kwiat D, Harrison MR. Magnetic Mini-Mover Procedure for pectus excavatum IV: FDA sponsored multicenter trial. *J Pediatr Surg.* 2017 Jun;52(6):913-919. doi:10.1016/j.jpedsurg.2017.03.009. Epub 2017 Mar 15. PMID:28342579.

Perry P, David E, Atkins B, Raff G. Novel application of a percutaneous left ventricular assist device as a bridge to transplant in a paediatric patient with severe heart failure due to viral myocarditis. *Interact Cardiovasc Thorac Surg.* 2017 Mar 1;24(3):474-476. doi:10.1093/icvts/ivw387.

Keller BA, Kabagambe SK, Becker JC, Chen YJ, Goodman LF, Clark-Wronski JM, Furukawa K, Stark RA, Rahm AL, Hirose S, Raff GW. Intercostal nerve cryoablation versus thoracic epidural catheters for postoperative analgesia following pectus excavatum repair: Preliminary outcomes in twenty-six cryoablation patients. *J Pediatr Surg.* 2016 Dec;51(12):2033-2038. doi:10.1016/j.jpedsurg.2016.09.034. Epub 2016 Sep 28. PMID:27745867.

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Jason H. Rogers, M.D.

Philosophy of Care

My philosophy of care is to give every patient an exceptional care experience at a level that I would provide for my own family. I enjoy listening to my patients' personal lives and view each one as an individual with unique concerns and needs. My goal is to always provide the highest level of compassionate and skillful care for my patients.

Clinical Interests

Dr. Rogers is board certified in interventional cardiology and vascular medicine, and is an integral member of the cardiovascular clinical and research program. He serves as the Director of Interventional Cardiology and is the Program Director for the Interventional Cardiology Fellowship.

Dr. Rogers has been widely published and has served as invited faculty at national and international meetings. His current clinical focus is the treatment of adult structural heart disease using minimally invasive transcatheter methods, such as MitraClip therapy for mitral regurgitation and transcatheter left atrial appendage occlusion.

Research/Academic Interests

Dr. Rogers serves as the Medical Director of the Cardiovascular Medicine Clinical Research Unit. Research is directed at the treatment of adult structural heart disease with an emphasis on the management of valvular heart disease using emerging minimally invasive and percutaneous procedures.

Title

Clinical Professor of Cardiovascular Medicine
Director, Interventional Cardiology
Program Director, Cardiovascular Interventional Fellowship
Medical Director, Cardiovascular Research Unit

Specialty

Adult Structural Heart Disease, Interventional Cardiology, [Cardiovascular Medicine](#), Internal Medicine

Department

[Internal Medicine](#)

Division

Cardiovascular Medicine

Center/Program Affiliation

[Cardiovascular Services](#)
[Vascular Center](#)

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UC Davis Medical Center, 2315 Stockton Blvd. Sacramento, CA 95817

Phone: 800-2-UCDAVIS (800-282-3284)



Jason H. Rogers, M.D.

Additional Phone	Fax: 916-734-6474 Physician Referrals: 916-734-5678
Education	M.D., St. Louis University School of Medicine, St. Louis MO 1995 M.A., Clinical Research K30 MCRTP Program, UC Davis School of Medicine, Sacramento CA 2007 A.B., Harvard University, Cambridge MA 1991
Internships	Internal Medicine, Barnes-Jewish Hospital , St. Louis MO 1995-1996
Residency	Internal Medicine, Barnes-Jewish Hospital, St. Louis MO 1997-1998
Fellowships	Cardiovascular Disease, Barnes-Jewish Hospital, St. Louis MO 1998-2002 Interventional Cardiology, Barnes-Jewish Hospital, St. Louis MO 2002-2003
Board Certifications	American Board of Internal Medicine, 1998 American Board of Internal Medicine, Cardiovascular Medicine, 2002 American Board of Internal Medicine, Interventional Cardiology, 2003 American Board of Vascular Medicine, 2005
Professional Memberships	Alpha Omega Alpha American College of Cardiology American Heart Association SCAI Structural Heart Disease Council Society for Cardiac Angiography and Interventions
Honors and Awards	Interventional Procedures for Adult Structural Heart Disease Textbook: Highly Commended in the Cardiology category of the 2014 British Medical Association (BMA) Medical Book Awards, 2014 Young Investigator Best Abstract for Mitral Valve Technologies Research, New Interventions in Transcatheter Valve Techniques Symposium, 2006 First place, Sixth Annual AstraZeneca Cardiovascular Young Investigators' Forum, 2000 Knowlton Incentive for Excellence Award, Barnes-Jewish Hospital, 1998 American College of Physicians' William M. Fogarty Jr. Book Award, 1995 Harvard National Scholar, 1991
Select Recent Publications	Singh GD, Smith TW, Boyd WD, Southard JA, Wong GB, Philip F, Low RI, Rogers JH. Complete Transcatheter Treatment of Degenerated Bioprosthetic Mitral Regurgitation: Transapical Paravalvular Leak Closure Followed by Transseptal Mitral Valve-in-Valve Replacement. JACC Cardiovasc Interv. 2015 Dec 21;8(14):e229-31



Jason H. Rogers, M.D.

Rogers JH, Thomas M, Morice MC, Narbutė I, Zabunova M, Hovasse T, Poupineau M, Rudzitis A, Kamzola G, Zvaigzne L, Greene S, Erglis A. Treatment of Heart Failure With Associated Functional Mitral Regurgitation Using the ARTO System: Initial Results of the First-in-Human MAVERIC Trial (Mitral Valve Repair Clinical Trial). *JACC Cardiovasc Interv*. 2015 Jul;8(8):1095-104.

Singh GD, Smith TW, Rogers JH. Multi-MitraClip therapy for severe degenerative mitral regurgitation: 'anchor' technique for extremely flail segments. *Catheter Cardiovasc Interv*. 2015 Aug;86(2):339-46.

Kuhn BT, Javed U, Armstrong EJ, Singh GD, Smith TW, Whitcomb CJ, Allen RP, Rogers JH. Balloon dilation atrial septostomy for advanced pulmonary hypertension in patients on prostanoid therapy. *Catheter Cardiovasc Interv*. 2015 May;85(6):1066-72.

Rogers JH, Bolling SF. Approaches to the management of functional tricuspid regurgitation. *J Comp Eff Res*. 2015 Nov;4(6):665-76.

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John Calvert Rutledge, M.D.

Clinical Interests	John C. Rutledge is an expert in atherosclerosis and lipid disorders. He specializes in preventive cardiology, lipid disorders and reversal of atherosclerotic cardiovascular disease.
Research/Academic Interests	Dr. Rutledge's current laboratory research includes biology of the vascular wall. https://www.ucdmc.ucdavis.edu/internalmedicine/research/vascular-lab/
Title	Professor, Division of Cardiovascular Medicine Vice Chair of Research, Internal Medicine Richard A. and Nora Eccles Harrison Endowed Chair for Diabetes Research
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., Baylor College of Medicine, Houston TX 1976 B.A., University of Texas, Austin TX 1972
Internships	Internal Medicine, University of Tennessee, Memphis TN 1976-1977
Residency	Internal Medicine, UC Davis Medical Center, Sacramento CA 1979-1981
Fellowships	Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 1981-1983
Board Certifications	American Board of Internal Medicine, 1983 American Board of Internal Medicine, Cardiovascular Disease, 1985
Professional Memberships	American Association for the Advancement of Science American College of Cardiology, Fellow American College of Physicians American Federation of Clinical Research



John Calvert Rutledge, M.D.

American Heart Association, Fellow

Honors and Awards

NIH Travel Award: The Intersection of Metabolic and Neurocognitive Function, NIH Workshop, NIH campus, July 17-18, 2015
Greater Bay Area Research Award Reception, Honoring AHA Northern California Research Awardees, 2011
Top Cited Article 2008-2010, Journal of Vascular Pharmacology, Altman R, Motton DD, Kota RS, Rutledge JC: Inhibition of vascular inflammation by DHEAS in human aortic endothelial cells: Roles of PPAR and NF-kB, 2010
Co-Chair, UC Davis School of Medicine Vice-Chairs for Research, 2011
Chair, Research Affairs Committee, UC Davis Center 2005-, 2013
Executive Council, UC Davis Academic Senate, 2005
Deans Excellence in Mentoring Award, UC Davis, 2000
Co-Chair, Mouse Models of Diabetic Complications Consortium Study Sect. Review, NIDDK, 2001
Richard A. and Nora Eccles Harrison Endowed Chair in Diabetes Research, 2000
Chair, Graduate Group in Physiology 1998-, 2001

Select Recent Publications

To view a detailed list of Dr. Rutledge's publications, please click [here](#).

Eiselein L, Nyunt T, Lamé MW, Ng KF, Wilson DW, Rutledge JC, Aung HH. TGRL Lipolysis Products Induce Stress Protein ATF3 via the TGF- Receptor Pathway in Human Aortic Endothelial Cells. PLoS One. 2015 Dec 28;10(12):e0145523.

Ng KF, Anderson S, Mayo P, Aung HH, Walton JH, Rutledge JC. Characterizing blood-brain barrier perturbations after exposure to human triglyceride-rich lipoprotein lipolysis products using MRI in a rat model. Magn Reson Med. 2015 Oct 20. [Epub ahead of print]

Walton JH, Ng KF, Anderson SE, Rutledge JC. MRI measurement of blood-brain barrier transport with a rapid acquisition refocused echo (RARE) method. Biochem Biophys Res Commun. 2015 Aug 7;463(4):479-82.



John Calvert Rutledge, M.D.

Yahiatène I, Aung HH, Wilson DW, Rutledge JC. Single-molecule quantification of lipotoxic expression of activating transcription factor 3. *Phys Chem Chem Phys*. 2014 Oct 21;16(39):21595-601.

Altman R, Keenan AH, Newman JW, Rutledge JC. The Postprandial Effects of a Moderately High-Fat Meal on Lipid Profiles and Vascular Inflammation in Alzheimer's Disease Patients: A Pilot Study. *J Gen Pract (Los Angel)*. 2014;2(6). pii: 186.

den Hartigh LJ, Altman R, Norman JE, Rutledge JC. Postprandial VLDL lipolysis products increase monocyte adhesion and lipid droplet formation via activation of ERK2 and NFB. *Am J Physiol Heart Circ Physiol*. 2014 Jan 1;306(1):H109-20.

Aung HH, Tsoukalas A, Rutledge JC, Tagkopoulos I. A systems biology analysis of brain microvascular endothelial cell lipotoxicity. *BMC Syst Biol*. 2014 Jul 4;8:80.

Ellis CL, Bokulich NA, Kalanetra KM, Mirmiran M, Elumalai J, Haapanen L, Schegg T, Rutledge JC, Raff G, Mills DA, Underwood MA. Probiotic administration in congenital heart disease: a pilot study. *J Perinatol*. 2013 Sep;33(9):691-7.

Aung HH, Lame MW, Gohil K, An CI, Wilson DW, Rutledge JC. Induction of ATF3 gene network by triglyceride-rich lipoprotein lipolysis products increases vascular apoptosis and inflammation. *Arterioscler Thromb Vasc Biol*. 2013 Sep;33(9):2088-96.

Snodgrass RG, Huang S, Choi IW, Rutledge JC, Hwang DH. Inflammasome-mediated secretion of IL-1 in human monocytes through TLR2 activation; modulation by dietary fatty acids. *J Immunol*. 2013 Oct 15;191(8):4337-47.

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Saul Schaefer, M.D.

Philosophy of Care	My goal is to thoughtfully listen to and evaluate a patient's complaints and develop an evidence-based diagnostic and therapeutic plan that aligns with the patients goals.
Clinical Interests	Dr. Schaefer focuses his clinical research on the utilization of non-invasive cardiac testing to diagnosis ischemic heart disease and pulmonary embolism.
Research/Academic Interests	Dr. Schaefer's laboratory studies involve the modulation of calcium uptake into mitochondria as a method of preventing and treating heart failure. These studies use transgenic mice with conditional knockout of the mitochondrial translocator protein.
Title	Professor Director of Medical Student Research and Physician Scientist Training Program Chief of Cardiology Section, VA Northern California Health Care System
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine, Invasive Cardiology
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., UC Davis School of Medicine, Sacramento CA 1981 B.E., Mechanical Engineering, The Cooper Union, New York NY 1968
Internships	Internal Medicine, UC San Francisco Medical Center, San Francisco CA 1981-1982
Residency	Internal Medicine, UC San Francisco Medical Center, San Francisco CA 1982-1984
Fellowships	Cardiovascular Medicine, University of Texas Southwestern Medical Center, Dallas TX 1984-1987
Board Certifications	American Board of Internal Medicine, 1984 American Board of Internal Medicine, Cardiovascular Disease, 1987
Professional Memberships	American College of Cardiology American Federation of Clinical Research



Saul Schaefer, M.D.

Honors and Awards

American Heart Association
American Society of Echocardiography
Society of Magnetic Resonance in Medicine

Best Doctors in America 2001-2012
UC Davis School of Medicine Alumni Association Distinguished Alumnus Award, 2009

Select Recent Publications

Ma L, Lee BH, Clifton H, Schaefer S, Zheng J. Nicotinic acid is a common regulator of heat-sensing TRPV1-4 ion channels. *Sci Rep.* 2015 Mar 10;5:8906.

Clifton HL, Inceoglu B, Ma L, Zheng J, Schaefer S. TRPV1 channels are involved in niacin-induced cutaneous vasodilation in mice. *J Cardiovasc Pharmacol.* 2015 Feb;65(2):184-91.

Tate S, Griem A, Durbin-Johnson B, Watt C, Schaefer S. Marked elevation of B-type natriuretic peptide in patients with heart failure and preserved ejection fraction. *J Biomed Res.* 2014 Jul;28(4):255-61.

Ma L, Lee BH, Mao R, Cai A, Jia Y, Clifton H, Schaefer S, Xu L, Zheng J. Nicotinic acid activates the capsaicin receptor TRPV1: Potential mechanism for cutaneous flushing. *Arterioscler Thromb Vasc Biol.* 2014 Jun;34(6):1272-80.

Stripe B, Rechenmacher S, Jurewitz D, Lee C, Schaefer S. The diagnostic yield of cardiac catheterization in low-risk troponinemia. *JAMA Intern Med.* 2013 Dec 9-23;173(22):2088-90.

Browning AC, Schaefer S: What Lies Beneath – Posterior ST Elevation Myocardial Infarction With Underlying Right Ventricular Paced Rhythm. *J Experimental and Clinical Cardiology.* 2013;(18)(1):e55-e56.

Inceoglu AB, Clifton HL, Yang J, Hegedus C, Hammock BD, Schaefer S: Inhibition of epoxide hydrolase prevents niacin-induced flushing in mice. *J Cardiovasc Pharmacology.* 2012;60(1):70-



Saul Schaefer, M.D.

75.

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Amrik Singh, M.D.

Philosophy of Care	Dr. Singh's philosophy of care incorporates evidence-based practice blended with common sense and compassion.
Clinical Interests	Dr. Singh's area of interests include cardiovascular and thoracic anesthesiology and transesophageal echocardiography.
Research/Academic Interests	Dr. Singh's research focuses on improving oxygenation monitoring techniques and outcomes in patients undergoing cardiac surgery.
Title	Professor Associate Chief, Division of Perioperative Medicine
Specialty	Anesthesiology
Department	Anesthesiology and Pain Medicine
Division	Cardiovascular and Thoracic Anesthesia
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Patient Support Services Building, 4150 V St. Suite 1200 Sacramento, CA 95817 Phone: 916-734-5031
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Languages	Hindi, Punjabi
Education	M.B.B.S., Medicine, Government Medical College, Patiala, India 1991 Pre Med, SGGS Khalsa College, Mahilpur, Punjab, India 1986
Internships	Rotating Internship, Government Medical College, Patiala, India 1991-1992 Surgery, UC Davis Medical Center, Sacramento CA 1997-1998
Residency	Anesthesiology & Pain Medicine, UC Davis Medical Center, Sacramento CA 1998-2001
Fellowships	Cardiovascular and Thoracic Anesthesia, UC Davis Medical Center, Sacramento CA 2001-2002
Board Certifications	American Board of Anesthesiology, 2012 Educational Commission For Foreign Medical Graduates (ECFMG) National Board of Echocardiography, Perioperative Transesophageal Echocardiography, 2013



Amrik Singh, M.D.

Professional Memberships

American Medical Association
American Society of Anesthesiologists
California Society of Anesthesiologists
Society of Cardiovascular Anesthesiologists

Honors and Awards

Outstanding Teacher of the Year, Department of Anesthesiology & Pain Medicine, UC Davis School of Medicine 2002, 2003, 2004, 2005, 2007
Outstanding Senior Resident, Department of Anesthesiology & Pain Medicine, UC Davis School of Medicine, 2001
Chief Resident, Department of Anesthesiology & Pain Medicine, UC Davis School of Medicine, 2000, 2001

Select Recent Publications

Fleming N, Singh A, Lee L, Applegate R. Oxygen Reserve Index: Utility as an early warning for desaturation in high risk surgical patients. *Anesth Analg*. 2020 Aug 12. doi:10.1213/ANE.0000000000005109. Online ahead of print. PMID:32815872.

Tsymbal E, Ayala S, Singh A, Applegate R, Fleming N. Study of early warning for desaturation provided by Oxygen Reserve Index in obese patients. *J Clin Monit Comput*. 2020 May 18. doi:10.1007/s10877-020-00531-w. Online ahead of print. PMID:32424516.

Singh A. Cardiac Output Methods to Measure. *The 5-Minute Anesthesia Consult*. Wolters Kluwer-LWW. 2013:170-1.

Singh A. Ejection Fraction. *The 5-Minute Anesthesia Consult*. Wolters Kluwer-LWW. 2013:350-1.

Singh A, Antognini JF. Perioperative pharmacology in elderly patients. *Curr Opin Anaesthesiol*. 2010;23(4):449-54.

Singh A, Antognini JF. Perioperative hypotension and myocardial ischemia: Diagnostic and therapeutic approaches. *Ann Card Anaesth*. 2011;14(2):127-32.



Amrik Singh, M.D.

Muilenburg OJ, Singh A, Torzilli G, Khatri VP: Surgery in the patient with liver disease. *Medical Clinics of North America*. 2009;93(5):1065-81.

Singh A, Fleming N. Right heart embolism and acute right atrial dilation during total knee arthroplasty. *Anesth Anal*. 2007 Nov;105(5):1224-7.

Grow MP, Singh A, Fleming NW, Young N, Watnik M. Cardiac output monitoring during off-pump coronary artery bypass grafting. *J Cardiothoracic and Vascular Anesthesia*. 2004;18(1):43-6.

Singh A, Ayyalapu A, Keochekian A: Anesthetic management in fibrodysplasia ossificans progressiva (FOP): a case report. *J Clinical Anesthesia*. 2003;15:211-213.

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Gagan D. Singh, M.D., M.S.

Philosophy of Care

Deliver patient-centered, evidence-based, quality cardiovascular care through a compassionate and open patient-physician relationship. My hope is for each patient to receive personalized care for their given lifestyle, quality of life, and overall goals. Not all patients fit the mold of clinical trials and no single patient nor their families want to be treated as such. Each patient presents with a problem that is unique to them and while there may be many different ways to treat a particular problem, my job is to find the solution that best fits the patient's needs in efforts to improve quality of life and their overall lifespan.

Clinical Interests

Dr. Singh is a board certified cardiologist and interventional cardiologist who received his medical degree from New York Medical College with induction to the Alpha Omega Alpha Society on graduation. He completed both internship and residency at Stanford University. He completed his cardiology, interventional cardiology, and vascular medicine/intervention training at UCDMC where he received Clinical Fellow of the Year Award and Trainee Research Award with the Department of Internal Medicine. His main clinical interests include high-risk complex percutaneous coronary interventions and complex structural heart interventions. His clinical interests are the development, practice, and research of a range of minimally invasive procedures for the treatment of complex coronary, structural, and vascular diseases. His other major interest is in educating and mentoring the doctors of tomorrow by working with medical students, residents, and fellows on the inpatient and outpatient cardiology services, and creation and development of research projects to help foster life-long learning and evidence based medical practice.

Research/Academic Interests

Dr. Singh is an investigator on multiple research protocols directed at the treatment of heart disease. He is Director of the Clinical Cardiovascular Research Unit at UC Davis and has co-authored several published articles relating to his research interests.

Title

Director, Clinical Cardiovascular Research Unit
Co-Director, Fellowship in Cardiovascular Medicine
Associate Professor, Division of Cardiovascular Medicine

Specialty

[Cardiovascular Medicine](#), Interventional Cardiology

Department

[Internal Medicine](#)

Division

Cardiovascular Medicine

Center/Program Affiliation

[Vascular Center](#)
[Cardiovascular Services](#)



Gagan D. Singh, M.D., M.S.

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Languages	Hindi, Punjabi, Spanish
Education	M.D., New York Medical College, Valhalla NY 2008 M.S., Physiology, New York Medical College, Valhalla NY 2004 B.A., Manhattanville College, Purchase NY 2001
Internships	Internal Medicine, Stanford University Hospital, Stanford CA 2008-2011
Residency	Internal Medicine, Stanford University Hospital, Stanford CA 2008-2011
Fellowships	Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 2011-2014 Interventional Cardiology, UC Davis Medical Center, Sacramento CA 2014-2016
Board Certifications	American Board of Internal Medicine American Board of Internal Medicine, Cardiovascular Medicine American Board of Internal Medicine, Interventional Cardiology
Professional Memberships	American College of Cardiology Society of Coronary Angiography and Interventions
Honors and Awards	CRT Emerging Leader Awardee, 2020 SCAI Emerging Leader - Circle Membership, 2019 First Place, Society for Cardiovascular Angiography and Interventions 2015 C3 Annual Summit for Interventional Fellows-in-Training. SCAI 2015 Scientific Sessions. San Diego, CA, 2015 Finalist, Best Cases of the Year, Trans-Valvular Therapeutics (TVT) 2014. More is less: multiple MitraClip therapy for severe degenerative mitral regurgitation. Vancouver, British Columbia, Canada, 2014 Trainee Research Award, Department of Internal Medicine, University of California (Davis) Medical Center, Sacramento CA, 2014



Gagan D. Singh, M.D., M.S.

Select Recent Publications

Clinical Fellow of the Year Award, University of California (Davis) Medical Center, Sacramento CA, 2012

Department of Medicine Excellence in Research Award, New York Medical College, Valhalla, NY, 2008

Alpha Omega Alpha Inductee, New York Medical College, Valhalla, NY, 2007

Singh GD, Rogers, JH, Chen S, Smith, TWR, Fan D, Stripe B, Aman E. Adjunctive use of fluoroscopy during MitraClip implantation reduces sub-valvular manipulation, number of grasps, and need for eversion. *Catheter Cardiovasc Interv.* 2020 Oct 22. doi:10.1002/ccd.29323.

Yap J, Chen S, Stripe BR, Smith TWR, Rogers JH, and Singh GD. Transseptal access for left heart structural heart procedures in the setting of prior atrial septal defect closure. *Catheter Cardiovasc Interv.* 2020 Feb 15;95(3):414-419. doi:10.1002/ccd.28548. Epub 2019 Oct 22.

Glassy MS, Wung W, Westcott S, Smith TWR, Fan D, Rogers JH, Singh GD. Left Atrial Appendage Dimensions Are Larger And Are At Greater Risk For Residual Leak After Watchman Occlusion In Patients With Long Standing Persistent Atrial Fibrillation. *JACC Cardiovasc Interventions.* 2019; 12:1018-1026.

Singh GD, Southard JA. Hostile Territory: Navigating Complex Iliofemoral Access for a Transfemoral First Strategy in Patients Undergoing Transcatheter Aortic Valve Replacement. *Structural Heart J.* 2018 Dec 13;3(1):41-43. Published Online 2019 Jan 7. doi:10.1080/24748706.2018.1556829.

Chen L, Mantri N, Eng ML, Wung W, Smith TWR, Stripe BR, Fan D, Boyd WD, Low RI, Rogers FH, Singh GD. Intraprocedural direct left atrial and wedge pressure correlation during transcatheter mitral valve repair: results from a single center registry. *Catheter Cardiovasc Interv.* 2019 Jul 1;94(1):165-170. doi:10.1002/ccd.28035. Epub 2018 Dec 27.

Singh GD, Smith TW, and Rogers, JH. Targeted Transseptal Access for MitraClip Percutaneous Mitral Valve Repair. *Interv Cardiol Clin.* 2016 Jan;5(1):55-69. doi:10.1016/j.iccl.2015.08.005.



Gagan D. Singh, M.D., M.S.

Epub 2015 Nov 18.

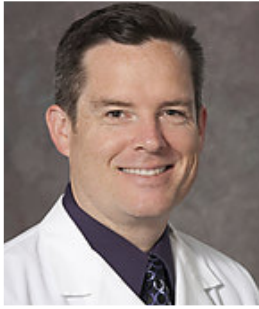
Laird JR, Singh GD. Drug-Coated Balloons as the New Standard of Care for Femoropopliteal In-Stent Restenosis: FAIR Assumption? *Circulation*. 2015 Dec 8;132(23):2198-200.

Singh GD, Smith TW, Boyd WD, Southard JA, Wong GB, Philip F, Low RI, Rogers JH. Complete Transcatheter Treatment of Degenerated Bioprosthetic Mitral Regurgitation: Transapical Paravalvular Leak Closure Followed by Transseptal Mitral Valve-in-Valve Replacement. *JACC Cardiovasc Interv*. 2015 Dec 21;8(14):e229-31.

Singh GD and Rogers JH. The Use of Ultrasound Guidance for Targeted Femoral Access. *Cardiovascular Interventions Today*. 2015 Sept/Oct.

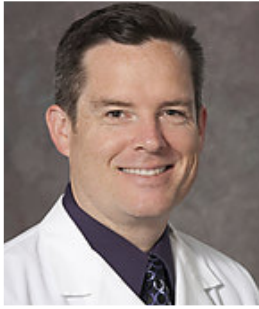
Singh GD, Armstrong EJ, Laird JR. Laser Revascularization in Critical Limb Ischemia. *Lasers in Cardiovascular Interventions*. 2015;pp 141-155. doi:10.1007/978-1-4471-5220-0_10.

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Thomas Smith, M.D.

Clinical Interests	<p>Thomas Smith is a specialist in cardiovascular imaging utilizing multiple techniques including echocardiography (transesophageal and transthoracic), computed tomography, nuclear medicine and magnetic resonance imaging to evaluate cardiac structure and function.</p> <p>He completed his general cardiology fellowship here at UC Davis with additional, advanced training at Cedars Sinai. Currently, he is the Director of the Adult Echocardiography Laboratory. His clinical interests include echocardiographic guidance of minimally invasive cardiac procedures, cardiac computed tomography, valvular heart disease and prevention of coronary artery disease.</p>
Research/Academic Interests	<p>Dr. Smith is active in multiple research studies focusing on transcatheter aortic valve replacement and transcatheter mitral valve repair. He is also involved in research studies using specialized blood tests and nuclear imaging to evaluate the heart muscle following myocardial infarctions.</p>
Title	<p>Interim-Chief, Division of Cardiovascular Medicine Director, Adult Echocardiography Laboratory Co-Director, Cardiology Fellowship Training Program Associate Professor of Medicine</p>
Specialty	<p>Cardiology, Cardiovascular Medicine, Cardiovascular Imaging, Internal Medicine</p>
Department	<p>Internal Medicine</p>
Division	<p>Cardiovascular Medicine</p>
Center/Program Affiliation	<p>Cardiovascular Services</p>
Address/Phone	<p>Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284</p>
Additional Phone	<p>Physician Referrals: 916-734-5678</p>
Education	<p>M.D., UC San Diego School of Medicine, San Diego CA 2002 B.A., UC Berkeley, Berkeley CA 1998</p>
Internships	<p>Internal Medicine, UC San Diego, San Diego CA 2002-2003</p>
Residency	<p>Internal Medicine, UC San Diego, San Diego CA 2003-2005</p>



Thomas Smith, M.D.

Fellowships Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 2006-2009
Multimodality Cardiovascular Imaging, UC Davis Medical Center and Cedars Sinai Medical Center, Sacramento CA 2009-2010

Board Certifications American Board of Internal Medicine, 2006
American Board of Internal Medicine, Cardiovascular Disease, 2010
Certification Board Of Cardiovascular Computed Tomography, 2010
National Board of Echocardiography, 2011

Professional Memberships American College of Cardiology
American Society of Echocardiography
Society of Cardiovascular Computed Tomography

Select Recent Publications Paulsen JM, Smith, TW. Echocardiographic Imaging of the Mitral Valve for Transcatheter Edge-to-Edge Repair. *Interventional Cardiology Clinics*. Volume 5, Issue 1, Jan 2016, Pages 17–31. 2015.

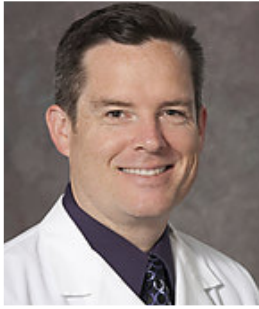
Mahmud E, Smith T, Palakodeti V, et al. Renal Frame Count and Renal Blush Grade: Quantitative Measures That Predict Success of Renal Stenting in Hypertensive Patients with Renal Artery Stenosis. *JACC, Cardiovascular Interventions* 2008; 1:286-292.

Lim W, Smith T, Rogers JH. Transcatheter repair of aortic leaflet perforation in a patient with prior surgical bicuspid aortic valve repair. *Catheter Cardiovasc Interv*. 2015 Apr 24. [Epub ahead of print]

Smith TW, Bommer WJ. Multimodality imaging in transcatheter aortic valve replacement. *Rev Cardiovasc Med*. 2014;15(2):75-85. Review.

Jensen G, Smith T, Flores M. Repair of a duplicate mitral valve in a patient with ascending aortic aneurysm and bicuspid aortic valve. *Ann Thorac Surg*. 2014 Mar;97(3):e67-9.

Armstrong EJ, Kwa AT, Bhat A, Romick B, Smith T, Rogers JH. Intracardiac echocardiography to guide percutaneous closure of atrial baffle defects. *J Invasive Cardiol*. 2012 Sep;24(9):473-6.



Thomas Smith, M.D.

aved U, Smith TW, Rogers JH. Percutaneous repair of anterior mitral leaflet perforation. *J Invasive Cardiol.* 2012 Mar;24(3):134-7.

Smith T, McGinty P, Bommer W, Low RI, Lim S, Fail P, Rogers JH. Prevalence and echocardiographic features of iatrogenic atrial septal defect after catheter-based mitral valve repair with the MitraClip system. *Catheter Cardiovasc Interv.* 2012 Oct 1;80(4):678-85.

Nakazato R, Tamarappoo BK, Smith TW, Cheng VY, Dey D, Shmilovich H, Gutstein A, Gurudevan S, Hayes SW, Thomson LEJ, Friedman JD, Berman DS. Assessment of left ventricular regional wall motion and ejection fraction with low-radiation dose helical dual-source CT: Comparison to two dimensional echocardiography. *J of Cardiovascular Computed Tomography.* 2011; 5: 149-157.

Mahmud E, Smith T, Palakodeti V, et al. Renal Frame Count and Renal Blush Grade: Quantitative Measures That Predict Success of Renal Stenting in Hypertensive Patients with Renal Artery Stenosis. *JACC, Cardiovascular Interventions.* 2008; 1:286-292.

Singh G, Smith TW, Rogers J. Targeted Transseptal Access for MitraClip Percutaneous Mitral Valve Repair. *Interventional Cardiology Clinics*, Volume 5, Issue 1, 55 - 69. 2015.

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Jeffrey Allen Southard, M.D.

Philosophy of Care

I do my best to treat patients with the same care I wish my family to have. I serve as a medical advisor to my patients trying to explain why we should do the things I am suggesting. Ultimately the decision is theirs to make. Sometimes patients come to me because they are frustrated with the medical system. Lending a comforting ear can be all the medicine that is required.

Clinical Interests

Dr. Southard is an interventional cardiologist with an interest in cardiovascular medicine. He sees patients in clinic, in the hospital and in consultation. He is the director of the Transcatheter Aortic Valve Replacement Program and has been the principle investigator in many research related valve trials.

In addition his research interests focus on expanding care to patients in underserved areas and he is working with our Telemedicine program to continue cardiology consultation in that regard. He also has an interest in patients with hypertrophic cardiomyopathy and was the principle investigator for the first ever cardiovascular stem cell trial here at UC Davis.

Research/Academic Interests

Dr. Southard's research interests include Transcatheter Aortic Valve Replacement, Hypertrophic Cardiomyopathy and Optical Coherence Tomography.

Title Associate Clinical Professor

Specialty [Cardiology](#), [Cardiovascular Medicine](#), Interventional Cardiology, Internal Medicine

Department [Internal Medicine](#)

Division Cardiovascular Medicine

Center/Program Affiliation [Cardiovascular Services](#)

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Education M.D., Georgetown University School of Medicine, Washington, D.C., 1999
B.S., UC Davis, Davis CA 1995

Internships Internal Medicine, Georgetown University Medical Center, Washington, D.C. 1999-2000

Residency Internal Medicine, Georgetown University Medical Center, Washington D.C. 2000-2002



Jeffrey Allen Southard, M.D.

Fellowships Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 2003-2006

Board Certifications American Board of Internal Medicine, 2002
American Board of Internal Medicine, Cardiology, 2006
American Board of Internal Medicine, Interventional Cardiology, 2008

Professional Memberships American College of Cardiology
American Heart Association

Honors and Awards Outstanding Fellow Award, Cardiology Fellowship, University of California, Davis Medical Center, 2006
Housestaff Professionalism Award, Cardiology Fellowship, University of California, Davis Medical Center, 2006
William P. Argy Award Winner, Outstanding Teaching Resident, Georgetown University Hospital, 2002

Select Recent Publications Singh GD, Smith TW, Boyd WD, Southard JA, Wong GB, Philip F, Low RI, Rogers JH. Complete Transcatheter Treatment of Degenerated Bioprosthetic Mitral Regurgitation: Transapical Paravalvular Leak Closure Followed by Transseptal Mitral Valve-in-Valve Replacement. *JACC Cardiovasc Interv.* 2015 Dec 21;8(14):e229-31.

Fatakawala H, Gorpas D, Bishop JW, Bec J, Ma D, Southard JA, Margulies KB, Marcu L. Fluorescence Lifetime Imaging Combined with Conventional Intravascular Ultrasound for Enhanced Assessment of Atherosclerotic Plaques: an Ex Vivo Study in Human Coronary Arteries. *J Cardiovasc Transl Res.* 2015 Jun;8(4):253-63.

Dinesen B, Nonnecke B, Lindeman D, Toft E, Kidholm K, Jethwani K, Young HM, Spindler H, Oestergaard CU, Southard JA, Gutierrez M, Anderson N, Albert NM, Han JJ, Nesbitt T. Personalized Telehealth in the Future: A Global Research Agenda. *J Med Internet Res.* 2016 Mar 1; 18(3):e53.

Chu LL, Katzberg RW, Solomon R, Southard J, Evans SJ, Li CS, McDonald JS, Payne C, Boone JM, RamachandraRao SP. Clinical Significance of Persistent Global and Focal Computed Tomography Nephrograms After Cardiac Catheterization and Their Relationships to Urinary Biomarkers of



Jeffrey Allen Southard, M.D.

Kidney Damage and Procedural Factors: Pilot Study. *Invest Radiol.* 2016 Mar 11. [Epub ahead of print]

Philip F, Stewart S, Southard JA. Very late stent thrombosis with second generation drug eluting stents compared to bare metal stents: Network meta-analysis of randomized primary percutaneous coronary intervention trials. *Catheter Cardiovasc Interv.* 2016 Feb 24. [Epub ahead of print]

Philip F, Wong GB, Southard JA. Cerebral Embolization After Implantation of a Balloon-Expandable Aortic Valve Without Prior Balloon Valvuloplasty: When Is Doing Less More? *JACC Cardiovasc Interv.* 2016 Jan 11;9(1):107-8.

Nesbitt T, Doctorvaladan S, Southard JA, Singh S, Fekete A, Marie K, Moser DK, Pelter MM, Robinson S, Wilson MD, Cooper L, Dracup K. Correlates of quality of life in rural patients with heart failure. *Circ Heart Fail.* 2014 Nov;7(6):882-7.

Dracup K, Moser DK, Pelter MM, Nesbitt TS, Southard J, Paul SM, Robinson S, Cooper LS. Randomized, controlled trial to improve self-care in patients with heart failure living in rural areas. *Circulation.* 2014 Jul 15;130(3):256-64.

Dracup K, Moser DK, Pelter MM, Nesbitt T, Southard J, Paul SM, Robinson S, Hemsey JZ, Cooper L. Rural patients' knowledge about heart failure. *J Cardiovasc Nurs.* 2014 Sep-Oct;29(5):423-8.

Singh GD, Wong GB, Southard JA, Amsterdam EA. Food for thought: atrioventricular dissociation. *Am J Med.* 2013 Dec;126(12):1050-3.

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Uma N. Srivatsa, M.B.B.S., MAS

Philosophy of Care	Dr. Srivatsa believes in improving quality of life and likes to make a collective recommendation regarding treatment options, taking into consideration the individual patient's approach to life. Having originated from the East, she understands and adapts to diverse cultural beliefs. In addition to invasive treatments, she incorporates lifestyle management techniques such as meditation for improved well-being.
Clinical Interests	Dr. Srivatsa is a cardiologist with specialization in arrhythmias and electrophysiology. She has special interest in complex arrhythmia management including atrial fibrillation, ventricular tachycardia and arrhythmias in congenital heart disease.
Research/Academic Interests	Dr. Srivatsa is interested in clinical outcome studies of ablative treatment for arrhythmias.
Title	Clinical Professor of Medicine Fellowship director, cardiac electrophysiology
Specialty	Cardiac Electrophysiology, Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Hindi, Tamil
Education	M.B.B.S., Tirunelveli Medical College, Madurai Kamaraj University, Tirunelveli, Tamilnadu, 1984-1990
Residency	Kilpauk Medical College, Kilpauk, Chennai, 1997 West LA VA Medical Center/UCLA, Los Angeles, California, 1999
Fellowships	Electrophysiology, UC San Diego, San Diego, California, 2003-2005 Cardiology, West LA VA Medical Center/OVMC/UCLA, Los Angeles, 2000-2003
Board Certifications	American Board of Internal Medicine, 1999 American Board of Internal Medicine, Cardiac Electrophysiology, 2005



Uma N. Srivatsa, M.B.B.S., MAS

American Board of Internal Medicine, Cardiology, 2003

Professional Memberships

American College of Cardiology
Heart Rhythm Society

Honors and Awards

Fellow, Heart Rhythm Society, 2009
Fellow, American College of Cardiology, 2011
QI subcommittee for Heart Rhythm Society, 2014
Leader, medical mission to India awarded by Childrens Lifeline, San Diego, 2014
Faculty research award, UC Davis, 2018

Select Recent Publications

Matthew Glassy, Nayereh Pezeshkian, Yingbo Yang, Uma N Srivatsa. Cause for the pause-obstructive sleep apnea Am J Med. 2018 Feb;131(2):141-143

Matthew Glassy, Nayereh Pezeshkian, Yingbo Yang, Uma Srivatsa. Resolution of AV block after ablation for atrial fibrillation. J Atr Fibrillation. 2017 Aug 31;10(2):1658

Uma N Srivatsa, Eric J Nordsieck, Nayereh Pezeshkian, Yingbo Yang, Jeffrey Southard. Ablation of frequent premature ventricular complexes arising from left ventricular outflow tract following trans-catheter aortic valve replacement. Heart Rhythm case reports 2017 (accepted)

Uma Srivatsa, Beate Danielsen, Ezra Amsterdam, Yingbo Yang, Dali Fan, Nayereh Pezeshkian, MPH, Richard H White. CALifornia study of ABLation (CAABL): early utilization after index hospitalization for non-valvular atrial fibrillation. J Atr Fibrillation. 2017 Jun 30;10(1):1599

Srivatsa U, Swaminathan K, SA Muvarah, Amsterdam EA, Shantaraman K. Sudden cardiac death in South India incidence, risk factors and pathology. Indian Pacing and Electrophysiology. 2016, 16 (4):121-125

Ling EB, Stayton TL, Stripe BR, Srivatsa U, Amsterdam E, Venugopal S. Too Fast for Comfort: Tachycardia in Post Ablation Wolf Parkinson White. Am J Med. 2016 Nov;129(11):e269-e272



Uma N. Srivatsa, M.B.B.S., MAS

Anderson I, Amsterdam EA, Srivatsa U. New Left Bundle Branch Block - Not Always Acute Myocardial Infarction. Am J Med. 2015 Sep;128(9):963-5

Maia Eng, William Wung, Uma N Srivatsa and Gagan D Singh . “ C” trouble: Class IC Antiarrhythmic toxicity. J Cardiovasc Med Cardiol 4(2): 033-037.

Bukkapatnam RN, Robinson M, Turnipseed S, Amsterdam E, Srivatsa UN. Troponin testing- not significant for CAD in supraventricular tachycardia. Am J Cardiol 2010;106:374-377.

Bukkapatnam RN, Robinson M, Turnipseed S, Tancredi D, Amsterdam E, Srivatsa UN.

Relationship of myocardial ischemia and injury to coronary artery disease in patients with supraventricular tachycardia. Am J Cardiol 2010 Aug;106(3):374-7.

Uma N Srivatsa. Antiarrhythmic Drug Therapy vs Catheter Ablation for Paroxysmal Atrial Fibrillation. JAMA 2010;303(18):1809.

Lindberg M, Amsterdam EA, Li Z, Srivatsa U. 'QRS Duration, an Indirect Reflection of Ventricular Synergy, Is not Altered in Decompensated Heart Failure.' Critical Pathways in Cardiology 2009;8 (2):88-90.

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Jeffrey Uppington, M.B.B.S.

Clinical Interests	Dr. Uppington's clinical support involves working in the operating room two-to-three days/week providing cardiothoracic anesthesia, transesophageal echocardiograms (TEE) and general anesthesia. His research includes new anesthetic agents and servo control of anesthetic infusions.
Title	Clinical Professor Chief of Staff Director, Division of Perioperative Medicine
Specialty	Anesthesiology, Anesthesiology - Cardiovascular and Thoracic
Department	Anesthesiology and Pain Medicine
Division	General Anesthesiology
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Patient Support Services Building, 4150 V St. Suite 1200 Sacramento, CA 95817 Phone: 916-734-5031
Additional Phone	Department Fax: 916-734-7980
Education	M.B.B.S., The London Hospital Medical School, London, England 1971
Internships	St. Martin's Hospital, Bath, England 1971-1972 Surgery, The London Hospital, London, England 1971
Residency	Anesthesia, United Bath Hospitals, Bath, England 1972-1973 Ob/Gyn- Psychiatry- General Practice, United Bath Hospitals, Bath, England 1973-1975
Board Certifications	American Board of Anesthesiology, 1988 National Board of Echocardiography, 2002
Professional Memberships	American Society of Anesthesiologists Association of Anesthetics of Great Britain and Ireland Society for Education in Anesthesia Society of Anesthetists of the South Western Region, Great Britain Society of Cardiovascular Anesthesiologists Society of Obstetric Anesthetists, Great Britain
Honors and Awards	Dean's Team Award for Excellence, Geriatric Fracture Hip Study collaborated with Dr. Phillip



Jeffrey Uppington, M.B.B.S.

Select Recent Publications

Wolinsky, 2016

Dean's Team Award for Excellence in Clinical Care: Interstitial Gynecological Brachytherapy Program, UC Davis School of Medicine, 2015

Best Poster Award Certificate, UC Davis Health, In recognition of the outstanding poster titled: Delayed Time to Surgery: A Possible Risk Factor for Post-Hip Fracture Mortality?, 2015

Spirit of Excellence Award, Quality Week Physician Recognition, UC Davis Health, 2015

Chief of Staff award for UCDCM Excellence in Quality, UC Davis Medical Center, 2014

Neuman MD, Gaskins LJ, Ziolek T and the REGAIN Investigators. Time to institutional review board approval with local versus central review in a multicenter pragmatic trial. SAGE Journals. 2017 e-pub.

Dort JC, Farwell DG, Findlay M, Huber GF, Kerr P, Shea-Budgell MA, Simon C, Uppington J, Zygun D, Ljungqvist O, Harris J. Optimal Perioperative Care in Major Head and Neck Cancer Surgery with Free Flap Reconstruction: A Consensus Review and Recommendations From the Enhanced Recovery After Surgery Society. JAMA Otolaryngology-Head & Neck Surgery. 2017;143(3): 292-303.

Dort JC, Farwell G, Findlay M, Huber G, Kerr P, Shea-Budgell M, Simon C, Uppington J, Zygun D, Ljungqvist O, Harris J. Consensus Review of Optimal Perioperative Care in Major Head and Neck Surgery with Free Flap Reconstruction- Multidisciplinary Approaches to Enhanced Recovery After Surgery: A Focus on Nutrition Care Recommendations. Journal of the American Medical Association. 2016.

Haskins J, Carson JG, Chang C, Kirshuit C, Link D, Navarra L, Scher L, Sciolla A, Uppington J, Yellowlees P. The Suicide Prevention, Depression Awareness and Clinical Engagement Program for Faculty and Residents at the University of California Davis Health System. Acad. Psychiatry. 2015; 40: 23-29.

Haskins J, Carson JG, Chang C, Kirshuit C, Link D, Navarra L, Scher L, Sciolla A, Uppington J, Yellowlees P. The Suicide Prevention, Depression Awareness and Clinical Engagement Program for Faculty and Residents at the University of California Davis Health System. Acad. Psychiatry. 2015;



Jeffrey Uppington, M.B.B.S.

40: 23-29.

Konia M, Uppington J, Moore P, Liu H. Ascending aortic pseudoaneurysm: a late complication of coronary artery bypass. *Anesth Analg*. 2008;106(3):767-8.

Konia MR, Uppington J. Diastolic regurgitation through a bi-leaflet mechanical valve in the mitral position. *Anesth Analg*. 2008;107(4):1166-7.

Uppington J: Guidelines, recommendations, protocols and practice, Shorten G, Brown J, Carr O, Puig M, Harmon O, (ed), *Postoperative Pain Management--A Guide to Evidence Based Practice* (Chapter 3), Elsevier, 2006.

Uppington J: Opioids, Ballantyne JC, (ed), *The Massachusetts General Hospital Handbook of Pain Management*, 3rd edition, Lippincott Williams and Wilkins, 2006;104-26.

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Sandhya Venugopal, M.D., MS-HPED

Philosophy of Care

My goal has always been to provide the best standard of care for my patients. I believe that decision-making in health care should be collaboration between the health care team and the patient and family. Communication is key in order to make this collaboration work well.

Clinical Interests

Sandhya Venugopal is a noninvasive cardiologist and specialist in the use of frontline assessments — the stress test, electrocardiograms and echocardiography — to determine cardiac health. She is passionate about educating students, residents and fellows in all medical fields about the importance of heart disease prevention and knowing when a cardiac specialist should be added to a patient's health-care team.

Research/Academic Interests

Dr. Venugopal's unique skills and passion lie in imparting optimal medical education to the adult learner. She endeavors to constantly search and continually strive to reshape the role of the clinician educator.

She is a talented lecturer, leader, and respected member of the UC Davis School of Medicine; dedicated to the interrelatedness of teaching, student learning and development, research and scholarship, and applied clinical skills.

For his full details on Dr. Venugopal's leadership role and activities, please visit her executive leadership bio page.

Title

Associate Dean, Continuing Medical Education
Director, Heart Station/ECG Laboratory
Co-Director, Cardiovascular Fellowship Training Program
Professor

Specialty

[Cardiology](#), [Cardiovascular Medicine](#), Internal Medicine, Non-invasive Cardiology

Department

[Internal Medicine](#)

Division

Cardiovascular Medicine

Center/Program Affiliation

[Cardiovascular Services](#)

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Additional Phone

Physician Referrals: 916-734-5678

Education

M.D., University of Kentucky College of Medicine, Lexington KY 1995



Sandhya Venugopal, M.D., MS-HPED

Internships Internal Medicine, Oregon Health Sciences University, Portland OR 1999-2000
M.D., Oregon Health Sciences University, Portland OR 1999

Residency Internal Medicine, Oregon Health Sciences University, Portland OR 2000-2002

Fellowships General Medicine, Oregon Health Sciences University, Portland OR 2002-2003
Cardiovascular Medicine, Rush University Medical Center, Chicago IL 2003-2006

Board Certifications American Board of Echocardiography
American Board of Internal Medicine
American Board of Internal Medicine, Cardiovascular Medicine

Professional Memberships American College of Cardiology
American College of Cardiology - California Chapter
American Heart Association
American Society of Echocardiography

Honors and Awards Hedwig Van Ameringen Executive Leadership in Academic Medicine (ELAM) Program for Women, Drexel University, Philadelphia, 2018
Dean's Award for Excellence in Medical Education, 2015
Master of Science: Health Professions Education, MGH/Harvard University, 2014
AAMC Mid-Career Women Faculty Professional Development Seminar, 2014
Master Clinician Educator, University of California, Davis, 2012
Dean's Excellence Team Award, UC Davis School of Medicine, 2013
AAMC Early Career Women Faculty Professional Development Seminar, 2009
Fellowship, American College of Cardiology, 2008

Select Recent Publications Roger A. Edwards, Sandhya Venugopal, Deborah Navedo & Subha Ramani (2017): Addressing needs of diverse stakeholders: Twelve tips for leaders of health professions education programs, Medical Teacher.

Moneer Eddin MD, Sandhya Venugopal MD, Brittany Chatterton MD, Angela Thinda MD, Ezra A Amsterdam MD. Longterm Prognosis of Low Risk Women Presenting to the Emergency Department with Chest Pain. Am J Med April 2017

Ezra A. Amsterdam, Sandhya Venugopal. Utility of simplicity for low risk chest pain patients (editorial). Eur Heart Journal Acute Cardiovascular Care April 21, 2017



Sandhya Venugopal, M.D., MS-HPED

Stauber BD, Venugopal S, Amsterdam EA. Treading Lightly:ST elevation in Exercise Electrocardiography Am J Med January 2017 Volume 130, Issue 1, Pages 34–36 [https://www.amjmed.com/article/S0002-9343\(16\)30787-2/fulltext](https://www.amjmed.com/article/S0002-9343(16)30787-2/fulltext)

Ali Alkhulaif, Ian Julie, Joseph Barton, Erin Nagle, Aubrey Yao, Samuel Clarke, Sandhya Venugopal, William Hammontree, Jose Ramirez, Karrin Dunbar, Christain Sebat Maria do Carmo Barros de Melo, Aaron Bair. In Situ Simulation: advantages, challenges and obstacles. Latin Am J Telehealth, 2016; 3 (2): 133-140

Ezra A. Amsterdam, MD, Sandhya Venugopal, MD, Jonathan Bui, MD, Balasingam Thevakumar, MBBS, Angela Thinda, MD, Sabrina Virk, MD, William J. Bommer, MD, Aman Khullar, MD, Gagan Singh, MD. Management of Hypertension: JNC 8 and beyond. Cardiovascular Innovations and Beyond. Vol. 1 No. 4 (2016) 409–416I SSN 2009-8618 DOI 10.15212/CVIA.2016.0030

Evelyn B. Ling, MD, Taylor L. Stayton, MD, Benjamin R. Stripe, MD, Uma Srivatsa MD, Ezra Amsterdam MD, Sandhya Venugopal, MD. Too Fast for Comfort: Tachycardia in Postablation Wolff-Parkinson-White, Am J Med Vol 129, No 11, November 2016, pages e269-e272. <https://dx.doi.org/10.1016/j.amjmed.2016.05.026>

Doung T, Malik L, Venugopal, S, Amsterdam EA. Fulminant Not Fatal. Am J Med 2016 July Volume 129, Issue 7, Pages e47–e49

Stauber SM, Teleten A, Li Z, Venugopal S, Amsterdam EA. Prognosis of Low-Risk Young Women Presenting to the Emergency Department With Chest Pain. Am J Cardiol. 2016 Jan 1;117(1):36-9.

Sab S, Dhruva SS, Paulsen J, Sidhu RS, Amsterdam EA, Venugopal S. Here Today, Gone Tomorrow. Am J Med. 2015 Dec;128(12):e7-9.



Sandhya Venugopal, M.D., MS-HPEd

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Amparo C. Villablanca, M.D.

Philosophy of Care

My philosophy of care is woman-centered and culturally sensitive, with respect for each patient. My goals of care are to use evidence-based data-driven approaches to improve health-care outcomes, reduce gender-based health disparities, and empower women (and men) to live longer and healthier lives.

Clinical Interests

Dr. Villablanca is a non-invasive cardiologist offering care for a wide spectrum of cardiovascular conditions in adults including coronary heart disease, heart failure, arrhythmias, and valve disease. She has special expertise in heart disease in women as founder and Director of the first woman's heart program in the U.S. She has special interest in cardiovascular conditions more prevalent/specific in women including autonomic dysfunction, ischemia with normal coronary arteries (INOCA), pregnancy associated cardiovascular disease including pre-eclampsia and peri-partum cardiomyopathy, and spontaneous coronary artery dissection (SCAD). She also has expertise in all aspects of preventive cardiology. For more information please see <https://health.ucdavis.edu/internalmedicine/cardio/women/>.

Research/Academic Interests

Dr. Villablanca is a physician-scientist. Her translational research program focuses on understanding sex differences in the molecular and cellular determinants of cardiovascular disease, including the vascular determinants of dementia. She is also a leader in community-based participatory research, and has developed and assessed efficacy of heart disease prevention models for improving heart disease outcomes in women who are at high-risk for cardiovascular disease. Dr. Villablanca is also a mentor, champion, and scholar for women in science careers and has published extensively in the field. Her research has been funded by the National Institutes of Health (NIH), the U.S. Dept of Health and Human Services, and private Foundations. Her work has been profiled by the NIH as a 'woman scientist in action', https://womeninscience.nih.gov/women_scientists/villablanca.asp, and by UC Davis Women in STEM, <https://www.ucdavis.edu/academics/women-stem/>.

Title

Professor, Department of Internal Medicine, Division of Cardiovascular Medicine
Frances Lazda Endowed Chair in Women's Cardiovascular Medicine
Director, UC Davis Health Women's Cardiovascular Medicine Program
Director, UC Davis Health Program for Advancing Leadership Across the Health Sciences

Specialty

[Cardiovascular Medicine](#), Women's Health, [Cardiology](#), Internal Medicine

Department

[Internal Medicine](#)

Division

Cardiovascular Medicine



Amparo C. Villablanca, M.D.

Clinic	Womens Cardiovascular Health Clinic
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2820 Sacramento, CA 95817
Additional Phone	Clinic Phone: 916-734-3761 Clinic Fax: 916-734-0145 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Spanish
Education	M.D., UC Davis School of Medicine, Davis CA 1983 B.S., UCLA, Los Angeles CA 1979
Internships	Internal Medicine, UC Davis Medical Center, Sacramento CA 1983-1984
Residency	Internal Medicine, UC Davis Medical Center, Sacramento CA 1984-1986
Fellowships	Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 1987-1990
Board Certifications	American Board of Internal Medicine American Board of Internal Medicine, Cardiovascular Disease, 2018 State of California, Physician and Surgeon Ventricular Assist Device (VAD) Training Certification - Heart Failure
Professional Memberships	American Heart Association American Women in Science (AWIS) California Medical Association LEADERS: Leaders Empowering Advancement, Diversity, Education, Research, and Science in Womens Health Scientific Advisory Council (SAC), Women Heart: The National Coalition for Women with Heart Disease Sierra Sacramento Valley Medical Society
Honors and Awards	International Womens Day Award for leadership and contributions to gender equity. Committee for the Status of Women at Davis Administrative Advisory Sub-Committee (SWADAAC), 2020 Deans Award for Excellence in Diversity Research, 2017 AAMC/GWIMS National Leadership Award, Women in Medicine and Health Sciences Program, 2016



Amparo C. Villablanca, M.D.

Sacramento Business Journal Health Care Hero award (physician researcher), 2013
Distinguished Scholarly Public Service Award, University of California, Davis Academic Senate, 2011
California Dept of Public Health & Health Care Services Award for Excellence in Community-Based Women's Health Leadership, 2009
UC Davis School of Medicine Extraordinary Lifetime Achievement Award in recognition of lifetime commitment and service to the School of Medicine, 2008
Heart of Gold Award, American Heart Association, Golden Empire Chapter, for leadership, education and innovation, 2007
Inaugural Red Dress Award, Womans Day for significant contributions in the fight against heart disease in women and vision and leadership in founding the countrys first womens heart program, 2004
Woman of Achievement in Medicine Award, Capitol Business and Professional Women Association, Sacramento, CA, 2000
Distinguished Alumna of the Year Award, UC Davis School of Medicine, 1999

Select Recent Publications

Nuthikattu S, Milenkovic D, Rutledge J, Villablanca A. Lipotoxic Injury Differentially Regulates Brain Microvascular Gene Expression in Male Mice. *Nutrients* (special issue on High-Fat High-Saturated Diet). 2019. <https://www.mdpi.com/2072-6643/12/6/1771/pdf>

Nuthikattu S, Milenkovic D, Rutledge J, Villablanca A. The Western Diet Regulates Hippocampal Microvascular Gene Expression: An Integrated Genomic Analyses. *Scientific Reports*. 2019;9:19058. (open access: www.nature.com/articles/s41598-019-55533-9)

Carr P, Helitzer D, Freund K, Westring A, McGee R, Campbell P, Wood C, Villablanca A. A Summary Report from the Research Partnership on Women in Science Careers. *J of Gen Internal Med*. 2018:1-8.

Shaikh U, Acosta D, Freischlag J, Young H, Villablanca A. Developing Diverse Leaders in Academic Health Centers: A Prerequisite to Quality Health Care? *Amer J Med Quality*. 2017;33(4):440-442.

Raeisi-Giglou P, Volgman A, Patel H, Campbell S, Villablanca A, Hsich E. Advances in



Amparo C. Villablanca, M.D.

Cardiovascular Health in Women Over the Past Decade: Recommendations for Practice. *J Women's Health*. 2017;27(2):128-139.

Shauman K, Beckett LA, Howell LP, Villablanca AC. A Qualitative Analysis of Biomedical Faculty Attitudes and Perceptions on Family-Friendly Workplace Policies: Implications for Department Chairs. *Acad Med*. 2017; 93(2):246-255.

Villablanca AC, Li Y, Beckett LA, Howell LP. Evaluating a Medical School's Climate for Success: Outcomes for Faculty Recruitment, Retention, and Promotion. *J Women's Health*. 2017;26(5):530-539.

Villablanca AC, Slee C, Lianov L, Tancredi D. Outcomes of a Clinic-Based Educational Intervention for Cardiovascular Disease by Race, Ethnicity and Urban/Rural Status. *J Women's Health*. 2016;25(11):1174-1186.

Aung H, Robin Altman, Nyunt T, Kim J, Budamagunta M, Voss JC, Wilson D, Rutledge JC, Villablanca AC. Lipotoxic Brain Microvascular Injury is Mediated by Activating Transcription Factor 3-dependent Inflammatory and Oxidative Stress Pathways. *J Lipid Res*. 2016;57(6):955-968.

Villablanca AC, Warford C, Wheeler K. Inflammation and Cardiometabolic Risk in African American Women is Reduced by a Pilot Community-Based Educational Intervention. *J Women's Health*. 2015;25(2):188-199.

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Charles K. Whitcomb, M.D.

Clinical Interests	Charles K. Whitcomb specializes in the evaluation and management of patients in both clinical and cardiac catheterization laboratory settings. His specialty includes cardiovascular disease and, specifically, noninvasive cardiology. Whitcomb is actively involved in the institution's transition to a managed-care environment.
Title	Professor
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine, Interventional Cardiology
Department	Internal Medicine
Division	Cardiovascular Medicine UC Davis Medical Group, Davis
Clinic	UC Davis Medical Group, Davis
Center/Program Affiliation	Cardiovascular Services UC Davis Medical Group
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284 UC Davis Medical Group - Davis (West Covell Boulevard), 2440 West Covell Blvd Suite 104 Davis, CA 95616 Phone: 530-747-3000
Additional Phone	Physician Referrals: 916-734-5678
Education	M.D., UC Davis School of Medicine, Sacramento, California, 1974
Internships	UCLA Center for Health Sciences, Westwood, California, 1975
Residency	UCLA Center for Health Sciences, Westwood, California, 1977
Fellowships	UC Davis, Davis, California, 1979
Board Certifications	American Board of Internal Medicine, 1977 American Board of Internal Medicine, Cardiovascular Disease, 1979

Charles K. Whitcomb, M.D.

American Board of Internal Medicine, Interventional Cardiology, 2002

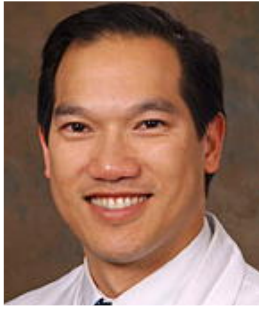
Select Recent Publications

Glatter KA, Chiamvimonvat N, Whitcomb C, Bloom H. Images in cardiovascular medicine.

Malignant vasovagal syncope. *Circulation* 2003 Jun;107(23):2987-8.

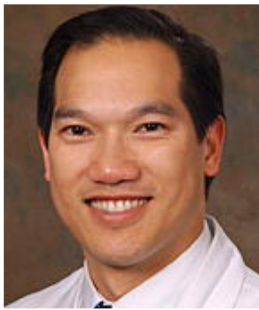
Whitcomb C, Enzmann G, Pershadsingh HA, Johnson R, Ciuryla V, Reisin E. A comparison of nisoldipine ER and amlodipine for the treatment of mild to moderate hypertension. *Int J Clin Pract.* 2000 Oct;54(8):509-13.

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Garrett B. Wong, M.D.

Title	Associate Clinical Professor
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine, Interventional Cardiology
Department	Internal Medicine
Division	Cardiovascular Medicine
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Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Cardiology Clinic, 4860 Y St. Suite 0200 Sacramento, CA 95817 Phone: 800-282-3284
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., Finch University of Health Sciences, The Chicago Medical School, Chicago IL 1998 B.A., UC Berkeley, Berkeley CA 1993
Internships	Internal Medicine, UC Davis Medical Center, Sacramento CA 1998-1999
Residency	Internal Medicine, UC Davis Medical Center, Sacramento CA 1999-2001
Fellowships	Interventional Cardiology, Scripps Clinic, San Diego CA 2004-2005 Cardiovascular Medicine, UC Davis Medical Center, Sacramento CA 2001-2004
Board Certifications	American Board of Internal Medicine, 2001 American Board of Internal Medicine, Cardiovascular Medicine, 2004 American Board of Internal Medicine, Interventional Cardiology, 2005
Professional Memberships	American Board of Hospital Physicians American College of Cardiology American College of Ethical Physicians American Heart Association American Medical Association
Honors and Awards	Chief Fellow, Cardiovascular Medicine Fellowship, UC Davis Medical Center, 2003 Clinical Fellow Recognition Award, UC Davis Medical Center, 2002 Internal Medicine Resident Teaching Award, UC Davis School of Medicine, 2001
Select Recent Publications	Philip F, Wong GB, Rogers JH, Low RI, Southard JA. Aortic Root and Annular Anatomical Exclusion for Transcatheter Aortic Valve Implantation. TCT Scientific Sessions. San Francisco, CA.



Garrett B. Wong, M.D.

November 11-15, 2015.

Wong GB, Southard JA, Rogers JH, Smith TW, Philip F, Singh G, Latif S, Boyd WD, Atkins B, Low RI. Heart Rate Variability of the Aortic Regurgitation Index Following Transcatheter Aortic Valve Replacement. SCAI 2015 Scientific Sessions. San Diego, CA May 6-10, 2015.

Sarcon A, Ghadri JR, Wong GB, Luscher TF, Templin C, Amsterdam EA. Takotsubo cardiomyopathy associated with opiate withdrawal. Q J Med. 2014; 107: 301-302.

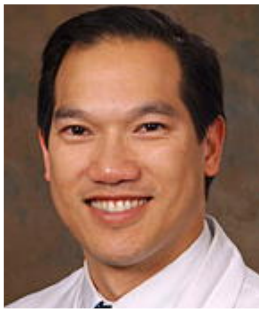
Singh GD, Wong GB, Southard JA, Amsterdam EA. Food for thought: Atrioventricular dissociation. Am J of Medicine. 2013; 126(12): 1050-1053.

Wong GB, Southard J, Rogers J, Singh G, Smith T, Armstrong E, Flores M, Boyd D, Low R. Heart Rate Variability of the Aortic Regurgitation Index Following Transcatheter Aortic Valve Replacement. SCAI 2013 Scientific Sessions. Orlando, FL May 8-11, 2013.

Wong GB, Southard J, Rogers J, Smith T, Armstrong E, Levisman J, Flores M, Boyd D, Low R. Effects Of Heart Rate On The Aortic Regurgitation Index Following Transcatheter Aortic Valve Replacement. J Am Coll Cardiol. 2013 Mar; 61(10). E1890.

Balwanz CR, Javed U, Singh GD, Armstrong EJ, Southard JA, Wong GB, Yeo KK, Low RI, Laird JR Jr, Rogers JH. Transradial and transfemoral coronary angiography and interventions: 1-year outcomes after initiating the transradial approach in a cardiology training program. American Heart Journal. 2013 Mar; 165(3): 310-6.

Seaman CB, Li Z, Wong GB. Coronary angiogram findings in patients who abuse amphetamines: A retrospective analysis. JACC. 2010, 55 (10A): A112.E1051.

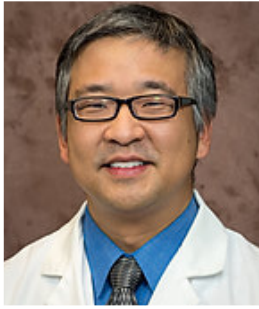


Garrett B. Wong, M.D.

Wong GB, Price MJ, Teirstein, PS. Guidewire Technology: Hydrophilic vs. Stiff Wire Selection. Handbook of Chronic Total Occlusions. Martin Dunitz Ltd. 2007.

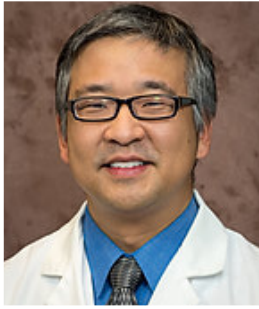
Valencia R, Price MJ, Sawhney N, Lee SS, Wong GB, Gollapudi RR, Banares M, Schatz RA, Teirstein PS. Efficacy and Safety of Triple Antiplatelet Therapy With and Without Concomitant Anticoagulation During Elective Percutaneous Coronary Intervention (the REMOVE Trial). American Journal of Cardiology, 2007;100(7): 1099-102.

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Aubrey Yao, M.D.

Clinical Interests	Dr. Yao's clinical research interests include transesophageal echocardiography, resident education, and anesthesia simulation. His research interests include non-invasive techniques for measuring cardiac output monitoring and non-invasive hemoglobin measurement.
Title	Associate Clinical Professor Director, Medical Student Education
Specialty	Anesthesiology, Anesthesiology - Cardiovascular and Thoracic
Department	Anesthesiology and Pain Medicine
Division	Cardiovascular and Thoracic Anesthesia
Center/Program Affiliation	Cardiovascular Services
Address/Phone	Patient Support Services Building, 4150 V St. Suite 1200 Sacramento, CA 95817 Phone: 916-734-5031
Additional Phone	Department Fax: 916-734-7980
Education	M.D., University of Missouri, Kansas City, School of Medicine, Kansas City MO 2001 B.A., Northwestern University, Evanston IL 1995
Residency	Urology, UC Davis Medical Center, Sacramento CA 2001-2004 Anesthesiology, UC Davis Medical Center, Sacramento CA 2005-2008
Fellowships	Cardiovascular and Thoracic Anesthesiology, UC Davis Medical Center, Sacramento CA 2008-2009
Board Certifications	American Board of Anesthesiology, 2009 National Board of Echocardiography - Advanced Perioperative Transesophageal Echocardiography, 2009
Professional Memberships	American Society of Anesthesiologists International Anesthesia Research Society Society of Cardiovascular Anesthesiologists
Honors and Awards	Dean's Team Award for Excellence - Code Blue Team Training, 2013 Outstanding Resident Teaching Award, UC Davis Department of Anesthesiology and Pain Medicine, 2011 Clinical Fellow Professionalism Award, UC Davis, Department of Anesthesiology and Pain



Aubrey Yao, M.D.

Medicine, Sacramento, CA, 2009

Sara C. Armstrong Award for Compassionate Care, UC Davis Health System, Sacramento, CA, 2009

Anesthesiology Resident of the Year, UC Davis, Department of Anesthesiology and Pain Medicine, Sacramento, CA, 2007

Abbott Laboratories Resident Research Award Finalist, CSA Annual Meeting, San Diego, CA, 2007

Honors earned in Urology, Transplant Surgery, Surgery, General Surgery, Psychiatry, Family Medicine, Clinical Pharmacology, University of Missouri at Kansas City, 2001

National Merit Scholar, Northwestern University, 1995

Select Recent Publications

Alkhulaif A, Julie I, Barton J, Nagle E, Yao, A. Implementation of In- Situ Simulation Training: Advantages, Challenges and Obstacles. MedSim Magazine. 2015;4(3): 10-13.

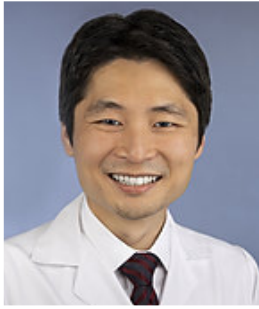
Barton J, Alsomali S, Ng V, Clarke S, Yao A, Carlisle M, Dunbar K, Hammontree W, Bair A. Impact of Multidisciplinary Team Training and High Fidelity Simulation In Critical Patient Scenarios. Med Sci Educ (JIAMSE). 2013 Oct;23(3S):532-540.

Konia M, Yao A. Simulation-a new educational paradigm? J Biomed Res. 2013 Mar;27(2):75-80.

Yao A, et al. The effects of aromatic anesthetics on dorsal horn neuronal responses to noxious stimulation. Anesth Analg. 2009 June;106(6):1759-64.

Kim J, Yao A, et al. Neurons in the ventral spinal cord are more depressed by isoflurane, halothane and propofol than are neurons in the dorsal spinal cord. Anesth Analg. 2007 Oct;105(4):1020-6.

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William J. Yoon, M.D.

Philosophy of Care

I am dedicated to providing personalized, comprehensive vascular care, with approach rooted in the most advanced and least invasive treatment options. I believe that understanding the patient experience from the patient's perspective is critical in delivering high quality care. I put a high value on open communication with my patient and their family members to achieve optimum treatment outcomes.

Clinical Interests

Dr. Yoon has a special interest in the endovascular treatment of aortic diseases, including thoracic aortic aneurysms, acute and chronic type B aortic dissection, and abdominal aortic aneurysms. In addition to traditional vascular surgery fellowship training, he received advanced specialized endovascular training for aortic disease and have extensive experience in fenestrated and branched endovascular aortic aneurysm repair. As such, his practice includes the treatment of complex aneurysm cases that employs personalized fenestrated endografts.

As an aortic surgeon trained in the most current and cutting-edge procedures, his focus is on integrating new technology and innovation into his clinical practice. He is also actively involved in clinical trials of new therapies and devices, so his patients may have access to innovative leading-edge treatments not available at other medical centers.

Research/Academic Interests

Dr. Yoon's research focuses on advancing endovascular management of thoracic and abdominal aortic disease. As reflected in his PhD thesis at the Department of Vascular Surgery, Uppsala University, Sweden, his research goal is to obtain further understanding on the aorta, especially on the aortic arch and supra-aortic branches, as well as on the current anatomic barriers to endovascular repair of thoracic and abdominal aortic disease. Ultimately, he aims to develop a thoracic endovascular aortic surgery planning software that would simplify preoperative thoracic endovascular aortic surgery planning process, with potential for shorter and more precise procedures and better long-term results, which represent a crucial frontier in advancing the treatment of thoracic aortic pathologies.

Title Assistant Professor, Department of Surgery

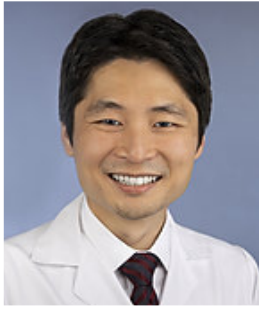
Specialty Vascular Surgery

Department [Surgery](#)

Division Vascular Surgery

Clinic Vascular Surgery Clinic

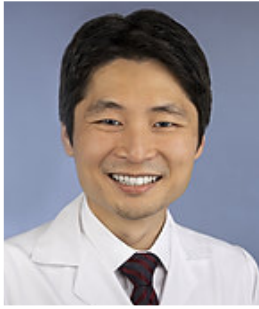
Center/Program Affiliation [Vascular Center](#)



William J. Yoon, M.D.

[Cardiovascular Services](#)

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Additional Phone	Clinic Fax: 916-734-1020 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Korean
Education	M.D., Virginia Commonwealth University School of Medicine, Richmond VA 2011 Ph.D., Advancing Endovascular Management of Thoracic Aortic Disease, Uppsala University, Uppsala, Sweden 2025 (anticipated) B.S., University of Connecticut, Storrs CT 2007
Internships	General Surgery, St. John Hospital & Medical Center, Detroit MI 2011-2012
Residency	General Surgery, St. John Hospital & Medical Center, Detroit MI 2012-2016
Fellowships	Vascular Surgery, Loyola University Medical Center, Stritch School of Medicine, Maywood IL 2016-2018 Advanced Aortic Endovascular Surgery Visiting Fellowship, Paracelsus Medical University Klinikum Nurnberg Sud, Nuremberg, Germany, 2018 Advanced Aortic Surgery Visiting Fellowship, Uppsala University Hospital, Uppsala, Sweden, 2018
Board Certifications	American Board of Surgery - General Surgery American Board of Surgery - Vascular Surgery CA Medical Board, License Registered Physician in Vascular Interpretation
Professional Memberships	American College of Surgeons California Medical Association European Society for Vascular Surgery Midwest Surgical Association Midwestern Vascular Surgical Society Sierra Sacramento Valley Medical Society (SSMS) Society for Clinical Vascular Surgery Society for Vascular Surgery Vascular and Endovascular Surgery Society



William J. Yoon, M.D.

Honors and Awards

Best Paper Award, Vascular and Endovascular Surgery Society Annual Meeting, 2018
John L. Keeley Surgical Fellowship Award, Loyola University of Chicago Medical Center, 2018
Best Chief Surgical Resident-Anthony B. Chambers Award, St. John Hospital & Medical Center, 2016
Society for Vascular Surgery Vascular Annual Meeting Travel Scholarship, 2013, 2014
Medical Student Training in Aging Research Scholarship, American Federation for Aging Research-National Institute on Aging, 2008
Graduated Magna Cum Laude in Molecular and Cell Biology, University of Connecticut, 2007
Phi Beta Kappa Honor Society, inducted, 2006
New England Scholar Award, University of Connecticut Honors Program, 2004, 2005, 2006, 2007
John R. Wooden Scholarship, 2004
University of Connecticut Leadership Scholarship, 2003, 2004, 2005, 2006, 2007

Select Recent Publications

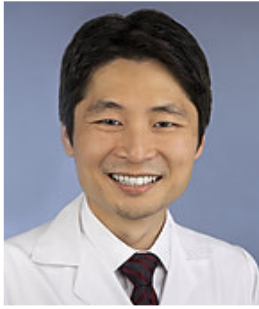
Yoon WJ, Mell M. Outcome comparison of thoracic endovascular aortic repair performed outside versus inside proximal landing zone length recommendation. *J Vasc Surg.* 2020 Apr 11;S0741-5214(20)30487-0. doi:10.1016/j.jvs.2020.03.033. Online ahead of print.

Yoon WJ. Fenestrated endovascular aneurysm repair versus snorkel endovascular aneurysm repair: competing yet complementary strategies. *Vasc Specialist Int.* 2019 Sep;35(3):121-128. doi:10.5758/vsi.2019.35.3.121. Epub 2019 Sep 30.

Yoon W, Drescher M, Crisostomo P, Halandras P, Aulivola B. Delineating the durability outcome differences after saphenous ablation with laser versus radiofrequency. *J Vasc Surg Venous Lymphat Disord.* 2019 Jul;7(4):486-492. doi:10.1016/j.jvsv.2018.11.013.

Yoon W, Crisostomo P, Halandras P, Bechara C, Aulivola B. The Use of the Agatston Calcium Score in Predicting Carotid Plaque Vulnerability. *Ann Vasc Surg.* 2019 Jan;54:22-26. doi:10.1016/j.avsg.2018.08.070. Epub 2018 Sep 10.

Yoon W, Halandras P, Aulivola B, Crisostomo P. Malignancy does not affect outcomes of pharmacomechanical thrombolysis in symptomatic iliofemoral deep vein thrombosis. *Ann Vasc Surg.* 2018 Aug;51:234-238. doi:10.1016/j.avsg.2018.01.081. Epub 2018 Mar 5.



William J. Yoon, M.D.

Laczynsk D, Yoon W, Halandras P, Bechara C, Aulivola B, Crisostomo P. Long-standing inferior vena cava filter with strut extrusion and retrieval using a rotating dilator sheath. *J Vasc Surg: Venous and Lym Dis*. 2018 Mar;6(2):300. doi:10.1016/j.jvsv.2017.12.051.

Yoon W, Drescher M, Crisostomo P, Halandras P, Aulivola B. Delineating the durability outcome differences after saphenous ablation with laser versus radiofrequency. *J Vasc Surg*. 2017 Aug;66(2):e22-e23. doi:10.1016/j.jvs.2017.06.013.

Yoon W, Aulivola B. Vascular injury during anterior spine exposure. In Eskandari M, Pearce W, Yao J (eds). *Current Vascular Surgery: 42nd Northwestern Vascular Symposium*. PMPH-USA, Shelton. 2017 Dec;39:405-416.

Yoon W, Conley A, Herrera S, Van Dorp D, Lorelli D. Ruptured mycotic abdominal aortic pseudoaneurysm in a patient on hemodialysis complicated with oxacillin-resistant *Staphylococcus aureus* bacteremia. *Ann Vasc Surg*. 2016 Aug;35:204.e1-4. doi:10.1016/j.avsg.2016.01.027. Epub 2016 May 26.

Yoon W, Lorelli D. Avoiding the use of a femoral bridging catheter in selected patients using a 2-stage Hemodialysis Reliable Outflow (HeRO) graft implantation technique. *J Vasc Access*. 2015 Jan; 16(3):189-194. doi:10.5301/jva.5000325.

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Joseph Nilas Young, M.D.

Philosophy of Care

Dr. Young's philosophy of care is to combine extensive experience and skill with the most advanced technologies and procedures to provide complete surgical care for complex diseases of the heart, chest, lungs and esophagus. He believes like his division that research-based, multidisciplinary approaches to surgery and providing expert care in the following three primary areas- Adult Cardiac Surgery, Congenital Cardiac Surgery and General Thoracic Surgery are important.

Clinical Interests

J. Nilas Young has a long record as an innovative surgeon and educator. He has been Professor and Chief of the Division of Cardiothoracic Surgery since 2001, as well as Program Director for the Cardiothoracic Surgery Residency Program. In 1989, he founded Heart to Heart International Children's Medical Alliance, a nonprofit organization that has established six cardiothoracic surgery programs in Russia. Dr. Young's clinical interests include complex valve repair, aortic disease, coronary revascularization, and congenital heart disease. His current research interests include outcomes for coronary bypass surgery, and his basic research involves myocardial cell ion transport and RNA profiling in myocardial stem cells.

Research/Academic Interests

Dr. Young's clinical research interests have focused primarily on surgical outcomes in a variety of clinical scenarios-specifically outcomes for congenital heart disease and coronary bypass grafting for ischemic heart disease. His basic research interests have involved collaborative studies examining molecular mechanisms of various myocardial cell functions. He has a strong interest in international cardiac surgical outreach programs, and has documented several decades of his group's efforts and outcomes in this arena.

Title Chief Emeritus, Division of Cardiothoracic Surgery

Professor, Division of Cardiothoracic Surgery

Specialty [Surgery - Cardiothoracic](#), [Surgery - Thoracic](#)

Department [Surgery](#)

Division Cardiothoracic Surgery

Center/Program Affiliation [Cardiovascular Services](#)
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Education M.D., Louisiana State University School of Medicine, New Orleans LA 1970
Biology, Spring Hill College, Mobile AL 1966

Residency Thoracic Surgery, Alameda County Medical Center, Oakland CA 1977
General Surgery, St. Mary's Hospital, San Francisco CA 1975

Board Certifications American Board of Thoracic Surgery
CA Physicians and Surgeon
Physician Assistant Supervisor
Radiography and Fluoroscopy

Professional Memberships American Association for the Advancement of Science
American Association for Thoracic Surgery
American College of Cardiology
American College of Chest Physicians
American College of Surgeons
American Heart Association
American Medical Association
International Society for Minimally Invasive Cardiac Surgery
Office of Statewide Health Planning and Development, State of California CABG Outcomes Reporting Program, Clinical Advisory Panel
Society of Thoracic Surgeons
Thoracic Surgery Directors Association, Professionalism and Ethics Committee
Western Thoracic Surgical Association
Women in Thoracic Surgery

Honors and Awards Pfizer International Volunteerism, American College of Surgeons. Washington, DC, 2016
ISMICS Poster Competition Winner - Complete Tricuspid Valve Regeneration: A Novel Minimally Invasive Surgical Technique and New Surgical Paradigm, Prague, Czech Republic, 2013
The World of Children Health Award Honoree, New York, NY, 2012
Hibbard Williams Extraordinary Achievement Award, University of California Davis, Sacramento, CA. March 29, 2012
2012 Dean's Award for Excellence in Community Engagement, UC Davis, School of Medicine, Sacramento, CA, 2012
Distinguished Service Award - Heart to Heart Foundational Children's Medical Alliance, 2009



Joseph Nilas Young, M.D.

Outstanding Physician Alumnus of the Year Award - The Highland Foundation, Alameda County Medical Center, Oakland, CA, 1996

Paul Harris Fellowship Award - Rotary International (For Russian cardiac surgical experience), 1995

Commissioner's Leadership through Collaboration Citation, U.S. Department of Health and Human Services, Administration for Children and Families, Washington, DC, 1993

Mayor's Citation Medal, St. Petersburg, Russia, 1991

Certificate of Appreciation, Deputy Chairman of the Executive Committee of St. Petersburg, Russia, City Council, 1989

Second Award for Excellence, Scientific Exhibit, American College of Cardiology, 27th Annual Scientific Session, Anaheim, CA, March. The Internal Configuration of Saphenous-Coronary Anastomoses as Determined by the Cast Injection Technique, 1978

Resident's Prize Essay Winner, The Western Thoracic Surgical Society, 3rd Annual Meeting, Colorado Springs, CO, June. The Internal Configuration of Saphenous-Coronary Anastomoses as Determined by the Cast Injection Technique, 1977

Distinguished Academic Record, Fellow, Undergraduate Medical and Surgical Society, Louisiana State University School of Medicine, 1970

Select Recent Publications

Li Z, Anderson J, Romano PS, Parker JP, Young JN, Chang DC. Impact of Risk Adjustment for Patient Sociodemographic Status in Public Reporting of Cardiac Surgery Outcomes. *J Am Coll Surg*. 2015 Oct;221(4):S128. doi:10.1016/j.jamcollsurg.2015.07.302.

Li Z, Amsterdam EA, Young JN, Hoegh H, Armstrong EJ. Contemporary Outcomes of Coronary Artery Bypass Grafting Among Patients With Insulin-Treated and Non - Insulin-Treated Diabetes. *Ann Thorac Surg*. 2015;100(6):2262–2269. doi:10.1016/j.athoracsur.2015.06.028. Epub 2015 Aug 25.

Young, JN, Everett J, Sinsic JM, Taggart NW, Litwin SB, Lusin N, Hasse L, Krivoshchekov EV, Marcin JP, Raff GW, Cetta F. A Stepwise Model for Delivering Medical Humanitarian Aid Requiring Complex Interventions. *J Thorac Cardiovasc Surg*. 2014 Dec;148(6):2480-9.e1. doi:10.1016/j.jtcvs.2014.07.067. Epub 2014 Aug.

Li Z, Carlisle DM, Marcin JP, Castellanos LR, Romano PS, Young JN, Amsterdam EA. Impact of



Joseph Nilas Young, M.D.

Public Reporting on Access to Coronary Artery Bypass Surgery: The California Outcomes Reporting Program. *Ann Thoracic Surg.* 2010 Apr;89(4):1131-8. doi:10.1016/j.athoracsur.2009.12.073.

Cao L, Young N, Liu H, Silvestry S, Sun W, Zhao N, Diehl J, Sun J. Preoperative aspirin use and outcomes in cardiac surgery patients. *Ann Surg.* 2012 Feb;255(2):399-404. doi:10.1097/SLA.0b013e318234313b.

Sirish P, López JE, Li N, Wong A, Timofeyev V, Young JN, Majdi M, Li RA, Chen HS, Chiamvimonvat N. MicroRNA profiling predicts a variance in the proliferative potential of cardiac progenitor cells derived from neonatal and adult murine hearts. *J Mol Cell Cardiol.* 2012 Jan;52(1):264-72. doi:10.1016/j.yjmcc.2011.10.012. Epub 2011 Oct 20.

Castellanos LR, Li Z, Yeo KK, Young JN, Ayanian JZ, Amsterdam EA. Relation of race, ethnicity and cardiac surgeons to operative mortality rates in primary coronary artery bypass grafting in California. *Am J Cardiol.* 2011 Jan;107(1):1-5. doi:10.1016/j.amjcard.2010.08.036.

Tuteja D, Rafizadeh S, Timofeyev V, Wang S, Zhang Z, Li N, Mateo RK, Singapuri A, Young JN, Knowlton AA, Chiamvimonvat N. Cardiac small conductance Ca²⁺-activated K channel subunits form heteromultimers via the coiled-coil domains in the C termini of the channels. *Circ Res.* 2010 Oct 1;107(7):851-9. doi:10.1161/CIRCRESAHA.109.215269. Epub 2010 Aug 5.

Li Z, Denton T, Yeo KK, Parker JP, White R, Young JN, Amsterdam EA. Off-pump bypass surgery and postoperative stroke: California coronary bypass outcomes reporting program. *Ann Thorac Surg.* 2010 Sep;90(3):753-9. doi:10.1016/j.athoracsur.2010.04.018.

Rogers JH, Yeo KK, Carroll JD, Cleveland J, Reece TB, Gillinov AM, Rodriguez L, Whitlow P, Woo YJ, Herrmann HC, Young JN. Late surgical mitral valve repair after percutaneous repair with the MitraClip system. *J Card Surg.* 2009 Nov-Dec;24(6):677-81. doi:10.1111/j.1540-8191.2009.00901.x. Epub 2009 Jul 24.



Joseph Nilas Young, M.D.

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