

Curriculum Vitae (updated January 2020)

RICHARD A. LANGE, M.D., M.B.A.

Position President, Texas Tech University Health Sciences Center El Paso
Dean, Paul L. Foster School of Medicine

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Personal Data

Birthplace: Anchorage, Alaska
Citizenship: U.S.
Marital Status: Married
Spouse: Joy Bobette Lange

Certification and Licensure

Medical Licensure: Texas G3543
Maryland D0061138

Board Certifications: Internal Medicine (#105140), 9/85
Cardiovascular Disease (#105140), 11/87
Interventional Cardiology (#105140), 09/03

Education

1974-1978	B.S.	North Texas State University Biochemistry, Summa Cum Laude, GPA 4.0
1978-1982	M.D.	Univ of TX Southwestern Med Ctr (UTSWMC) Alpha Omega Alpha, rank 13/208
2004-2008	M.B.A.	Carey Business School, Johns Hopkins University GPA 3.96

Postdoctoral Training

1982-1983	Internship, Internal Medicine, The Johns Hopkins Hospital
1983-1985	Residency, Internal Medicine, The Johns Hopkins Hospital
1985-1988	Fellowship, Cardiovascular Medicine, UTSWMC

Faculty Appointments

1988-1992	Assistant Professor of Internal Medicine, UTSWMC
1992-1999	Associate Professor of Internal Medicine, UTSWMC
1993- 2003	Co-Director, Adult Congenital Heart Disease Clinic, UTSWMC
1999-2003	Professor of Internal Medicine (Tenured), UTSWMC
1999-2003	Director, Cardiology Fellowship Training Program, UTSWMC
2001-2003	Director, Bernard & Audrey Rapoport Center for CV Research, UTSWMC
2004-2008	Professor of Medicine (Tenured) Johns Hopkins University School of Medicine (SOM)

2004-2008	Chief, Clinical Cardiology Johns Hopkins University SOM
2004-2007	Associate Director, Donald W. Reynolds Cardiovascular Clinical Research Center Training Program Johns Hopkins University SOM
2005-2008	Co-Director, Cardiology Fellowship Program Johns Hopkins University SOM
2008-2014	Professor of Internal Medicine (Tenured) Univ of Texas Health Science Center San Antonio
2008-2014	Executive Vice Chairman, Dept of Medicine Univ of Texas Health Science Center San Antonio
2008-2014	Director, Office of Educational Programs, Department of Medicine Univ of Texas Health Science Center San Antonio
2014-current	President Texas Tech University Health Science Center El Paso
2014-current	Dean, Paul L. Foster School of Medicine Texas Tech University Health Science Center El Paso
2014-current	Professor of Internal Medicine (Tenured) Texas Tech University Health Science Center El Paso

Hospital and Administrative Appointments

1988-1991	Associate Director, Cardiac Pacing Service, Parkland Memorial Hospital, UTSWMC
1988-1991	Associate Director, Cardiac Catheterization Laboratory Parkland Memorial Hospital, UTSWMC
1991-1992	Director, Cardiac Pacemaker Service, Parkland Memorial Hosp, UTSWMC

1991-1999	Director, Cardiac Catheterization Laboratory, Parkland Memorial Hospital, UTSWMC
2000-2002	Chief of Staff Zale-Lipsky University Hospital
2014-current	Board Member (Ex-Officio) University Medical Center, El Paso
2014-current	Board Member (Ex-Officio) El Paso Children's Hospital
2014-current	Joint Advisory Board The Hospitals of Providence, Transmountain Campus
2016-current	Board Member (Ex-Officio) Tenet Hospitals

Awards/Honors

1979	Chilton Foundation Fellowship
1981	Alpha Omega Alpha
1983	Outstanding Housestaff Teaching Award, The Johns Hopkins Hospital
1985	Daniel Baker Award (Outstanding Senior Resident), The Johns Hopkins Hospital
1986	National Institutes of Health Training Fellowship
1994	Jonsson-Rogers Chair in Cardiology (held until 2004)
1996	Best Doctors in America (1996-2018)
1998	Merit Award, American Heart Association, Dallas Division
1998	Marquis Who's Who in Medicine and Healthcare (1998-2012)
1999	Outstanding Teacher Award, UTSWMC, Sophomore Class of 2001
1999	Outstanding Teacher Award, UTSWMC, Freshman Class of 2002
1999	Outstanding Teacher Award, UTSWMC School of Allied Health, PA class of 1999
2000	Outstanding Teacher Award, UTSWMC, Sophomore Class of 2002
2000	Outstanding Intellectuals of the 21 st Century
2000	American Clinical and Climatological Association (2000-2010)
2000	Richard A. Lange Chair in Cardiology (Inaugural holder, 2000-2003)
2001	Outstanding Teacher Award, UTSWMC, Sophomore Class of 2003
2002	Outstanding Teacher Award, UTSWMC, Sophomore Class of 2004

- 2002 Outstanding Teacher Award, 2002, Freshman Class of 2005
- 2002 Internal Medicine Housestaff Outstanding Teacher Award, UTSWMC
- 2002 Marquis Who's Who in America 2002-2015
- 2003 Best Doctors in Dallas, D Magazine (peer selected), 2003-08
- 2003 Outstanding Teaching Award, UTSWMC, Sophomore Class of 2005
- 2003 Outstanding Teaching Award, UTSWMC, Freshman Class of 2006
- 2004 Academic Keys Who's Who in Medical Sciences Education
- 2004 Outstanding Teaching Award, UTSWMC, Sophomore Class of 2006
- 2004 Outstanding Teaching Award, UTSWMC, Freshman Class of 2007
- 2004 Theodore E. Woodward Award, American Clinical and Climatologic Association
- 2004 E. Cowles Andrus Professorship, Johns Hopkins University (2004-2008)
- 2005 Leadership Development Program, Johns Hopkins University
- 2005 Fortuin Teaching Award, Johns Hopkins University
- 2007 Best Doctors in Baltimore, Baltimore Magazine (peer selected)
- 2008 1st Annual Johns Hopkins Cardiology Teaching Award
- 2008 NIH Master Teacher
- 2008 International Health and Medical Media Awards (Finalist, in the Audio Programming category for www.hopkinsmedicine.org/mediaII/podcasts.html.)
- 2008 Best Doctors in Baltimore, Baltimore Magazine (peer selected)
- 2009 L. David Hillis Distinguished Professorship
- 2010 AMWA Barbara Sanford Equity Teaching Award, UTHSCSA
- 2010 Best Doctors in San Antonio, San Antonio Magazine (peer selected, 2010-2013)
- 2011 Commencement speaker, UTHSCSA Medical School Graduation
- 2011 Award for Excellence in Medical Education, UTHSCSA, Senior Class of 2011
- 2012 Outstanding Faculty Award, UTHSCSA Senior Class of 2012
- 2012 Who's Who in North American Education
- 2013 Best Doctors in San Antonio, San Antonio Magazine, (peer selected, since 2010)
- 2013 Outstanding Faculty Award, UTHSCSA Senior Class of 2012
- 2013 Arnold B Gold Humanism Award
- 2013 America's Top Cardiologists (Consumer's Research Council of America, 2013-2017)
- 2014 Outstanding Faculty Award, UTHSCSA Senior Class of 2013
- 2015 Commencement speaker, TTUHSC El Paso Paul L. Foster School of Medicine
- 2015 Commencement speaker, Univ of Texas School of Public Health, MPH program
- 2015 Southern Society for Clinical Investigation
- 2016 Commencement speaker, TTUHSC El Paso Paul L. Foster School of Medicine
- 2017 America's Top Cardiologists (Consumer's Research Council of America, annually since 2013)
- 2017 Nominee, El Pasoan of the Year

- 2019 Best Doctors in America (peer selected, annually since 1996)
- 2019 Texas Super Doctors, Texas Monthly (peer selected, annually since 2016)
- 2019 Vision of Excellence Award, El Paso Hispanic Chamber Commerce

Visiting Professorships

- 1998 University of Virginia (Charlottesville)
- 1999 Cleveland Clinic Medical Institution (Cleveland)
- 2004 Univ of Texas Southwestern Medical Center (Dallas)
- 2007 Baylor School of Medicine (Houston, TX)
- 2007 University of North Carolina (Craig Memorial Lecture)
- 2013 Texas A&M, Scott and White (Temple, TX)
- 2013 Baylor School of Medicine (Houston, TX)
- 2018 Chief Residents' Visiting Professor, Baylor School of Medicine (Houston, TX)

Organizations

- American Clinical and Climatological Association (Secretary-Treasurer)
- American College of Cardiology (Fellow)
- American College of Physicians (Fellow)
- American Heart Association
 - Council on Clinical Cardiology (Fellow)
 - Council on Atherosclerosis, Thrombosis and Vascular Biology
- Association of Academic Health Centers
- Association of University Cardiologists
- Association of American Medical Colleges
 - Council of Deans
- Association of Subspecialty Professors
- Council of Public University Presidents and Chancellors
 - Legislative Session Advisory Committee
 - Economic Impact Work Group
- International Society for Adult Congenital Cardiac Disease
- International Institute of Medicine
 - Continuing Education Advisory Committee
- National Marfan Foundation
- Rotary International
- Society of Cardiac Angiography and Intervention (Fellow)
- Southern Society for Clinical Investigation

Texas Club of Cardiologists

2018-current Chair, FDA Circulatory System Devices Panel, Medical Devices Advisory Committee, Center for Devices and Radiological Health, Department of Health and Human Services
 Dec 2018 – OPTIMIZER Cardiac Contractility Modulation
 (Impulse Dynamics)
 Dec 2018 – Anti-Hypertensive Devices
 Jun 2019 – Paclitaxel eluting stents/balloons in peripheral vascular disease

University Committees/Assignments

1992-1994 Clinical Practice Steering Committee, UTSWMC
 1993-2003 Internal Medicine Internship Advisor, UTSWMC
 1992-2003 Advisory Committee, Invasive CV Tech Program, Dallas Cou Comm Coll
 1996-2003 Medical Student Selection Committee, UTSWMC
 2002 Pediatric Chairman Search Committee, UTSWMC
 2003 IRB Review Committee Ad Hoc Task Force, UTSWMC
 2003-2004 Clinical Task Force, UTSWMC
 2005-2008 Curriculum Reform Committee, Johns Hopkins Univ SOM
 2005-2008 Intern Selection Committee, Johns Hopkins University SOM
 2005-2008 Cardiology Fellowship Selection, Director, Johns Hopkins Univ SOM
 2005-2008 Co-Director, MS2 CV Pathophysiology, Johns Hopkins University SOM
 2005-2008 Women’s Multidisciplinary Strategy Team, Johns Hopkins Univ SOM
 2005-2008 Safety & Operations Committee, Johns Hopkins Univ SOM
 2004-2008 Clinical Practice Assn Contracting Committee, Johns Hopkins Univ SOM
 2005-2006 Clinical Practice Association Contracting Committee,
 Vice Chairman, Johns Hopkins Univ SOM
 2005-2008 Medicare Strategy Committee, Johns Hopkins Univ SOM
 2005-2008 Medicine, LOS Committee, Johns Hopkins Univ SOM
 2006-2008 Clinical Practice Association Contracting Committee,
 Chairman, Johns Hopkins Univ SOM
 2008-curr Joint Affiliation Operating Management Committee, UTHSCSA
 2008-curr Research Equipment and Space Allocation Committee, UTHSCSA
 2008-2009 XYZ Compensation Task Force, UTHSCSA
 2008-curr Clinical Competence Committee, UTHSCSA
 2009-2010 Promotions and Tenure Advisory Committee, UTHSCSA
 2010-2011 Chair, Hematology/Oncology Chairman Search Committee, UTHSCSA
 2012-2014 Specialty Access Committee, UTHSCSA
 2013-2014 Chair, Search Committee, RAHC-DHR Int Medicine Program Director

2013-2014	Chair, Search Committee RAHC-VBMC Int Medicine Assoc Program Dir
2013-2014	Clinical Advisory Board, Doctor of Medical Physics Program
2013-2014	NIH institutional reviewer (KL2 awards)
2014	AOA, Selection Committee, UTHSCSA
2014-curr	Higher Education Fund Formula Study Committee Texas Higher Education Coordinating Board (THECB)
2014-curr	Texas Tech University Foundation
2014-curr	Texas Tech Physician Associates, Executive Committee
2016	Presidential Search Committee (ad hoc member), Texas Tech Univ
2016	School of Public Health Dean's Search Committee, Univ of Texas El Paso
2016-curr	Facilities and Planning Committee, TTUHSC El Paso
2017-curr	Temporary Faculty, Metallurgical, Materials and Biomedical Engineering Department, Univ of Texas El Paso
2019-curr	Presidential Search Committee (ex officio), TTUHSC

Hospital Committees

1989- 2003	Quality Assurance Committee, Zale-Lipshy Univ Hosp, Dallas, TX
1996-1998	Secretary-Treasurer, Medical Executive Committee, Zale-Lipshy U Hosp, Dallas, TX
1997-2003	Performance Improvement Committee, Zale-Lipshy Univ Hosp, Dallas, TX
1998-2000	Vice Chairman, Medical Executive Committee, Zale-Lipshy Univ Hosp, Dallas, TX
2000-2002	Chairman, Medical Executive Committee, Zale-Lipshy University Hosp, Dallas, TX
2004-2008	Heart Institute Board of Governors, The Johns Hopkins Hospital, Baltimore, MD
2005-2008	Women's Multidisciplinary Strategy Team, The Johns Hopkins Hospital, Baltimore, MD
2013-2014	Heart Vascular Institute, University Hospital, San Antonio, TX
2014-curr	Board Member (Ex-Officio), El Paso Children's Hospital, El Paso, TX
2014-curr	Board Member (Ex-Officio), University Medical Center, El Paso, TX
2014-2015	Medical Executive Committee (Ex-Officio), Univ Medical Center, El Paso, TX
2014-curr	Joint Advisory Board, Providence Hospital Network, El Paso, TX
2015	CEO Search Firm Selection Committee, University Medical Center, El Paso, TX

2016	CEO Search Committee, University Medical Center, El Paso, TX
2016-curr	Medical Executive Committee, Univ Medical Center, El Paso, TX
2016	CEO Search Committee, El Paso Children's Hospital, El Paso, TX
2016-curr	Neonatal ICU Committee, El Paso Children's Hospital, El Paso, TX
2017-curr	Cardiovascular Committee, The Hospitals of Providence Transmountain, El Paso, TX

Organizational Leadership

1994-2002	Research Advisory and Allocation Committee, American Heart Associate, Texas Affiliate
1996-1998	Vice Chairman, Research Advisory and Allocation Committee, American Heart Association, Texas Affiliate
1998-2002	Chairman, Research Advisory and Allocation Committee, American Heart Association, Texas Affiliate
1999-2002	National Scientific Classification Task Force American Heart Association
2000-2001	Vice Chairman, Research Committee, Western Affiliates American Heart Association
2001-2002	Chairman, Research Committee, Western Affiliates American Heart Association
2000-2004	Board of Directors, American Heart Association, Texas Affiliate
2000-2004	Working Group on Extramural Program Evolution American College of Cardiology
2000-2002	Scientific Advisory Board, Intl Academy of Cardiology
2001-2007	Scientific Advisory Panel, Doris Duke Charitable Foundation CV Panel
2002-2003	Vice President, American Heart Association, Texas Affiliate
2003-2004	President, American Heart Association, Texas Affiliate, 2003-2004
2005-2009	Samuel Levine Award Committee, Council on Clinical Cardiology, AHA
2006-2008	Sister-To-Sister, Everyone Has a Heart Foundation Executive Leadership Committee
2008-2009	ACC Spotlight Session Planning Committee
2011-2012	Chair, Scientific Session Program Committee, Am College of Cardiology
2012-curr	Secretary/Treasurer, American Clinical and Climatological Association
2013-2015	Assoc Editor, Lifelong Learning Program, Am College of Cardiology
2013-curr	Sarnoff Foundation, Scientific Committee
2014-curr	El Paso County Medical Society, Ex-Officio Member
2014-curr	Medical Center of Americas, Board Member

2014-curr	Higher Education Fund Formula Study Committee Texas Higher Education Coordinating Board (THECB)
2014-curr	AziCATS (Univ of Arizona CTSA) Executive Council
2015-curr	Greater El Paso Chamber of Commerce, Governing Board
2015-curr	Borderplex Economic Alliance, Life Sciences Task Force
2015-curr	PHIX (Paso del Norte Health Information Exchange), Board of Directors
2016-curr	Executive Leadership Committee, AHA, El Paso Affiliate
2018-curr	FEMAP Foundation (Federacion Mexicana de Asociaciones Privadas, Mexican Federation of Health and Community Development) – Board of Directors
2019-curr	Council of Public University Presidents and Chancellors <ul style="list-style-type: none"> ○ 86th Legislative Session Follow-up Work Group ○ 87th Legislative Session Planning Session Work Group ○ Economic Impact/Outcomes Study Coordination Work Group

Writing Committees (National Organizations)

2008	ACC/AHA Task force: Training in Clinical Cardiology
2010	ACCF/AHA Guidelines for Coronary Artery Bypass Graft Surgery
2010	ACCF/AHA Guidelines for Percutaneous Coronary Revascularization
2011	ACCF/AHA Appropriate Use Criteria For Diagnostic Catheterization (External Reviewer)
2011	ACCF/AHA, Sexual Activity and Heart Disease
2011	ACCF/AHA Science Advisory on Latency of Visual ECG Displays of Hospital Telemetry Systems (External Reviewer)
2012	ACCF/AHA Pet Ownership and Cardiovascular Disease
2013	ACCF/AHA Stable Ischemic Heart Disease Update
2013	ACCF/AHA Perioperative Guidelines (External Reviewer)
2014	ACCF/AHA Valvular Heart Disease Guidelines (External Reviewer)
2015	ACCF/AHA Focused Update on Primary PCI for Patients with STEMI
2015	ACCF/AHA Dual Antiplatelet Therapy in Patients with CAD
2016	ACCF Expert Consensus Decision Pathway for Periprocedural Management of Anticoagulation (External Reviewer)
2016	ACCF/AHA, Vice Chair, Meditation and Cardiovascular Risk Reduction
2016	AHA/ACC Focused Update on the Management of Patients With Valvular Heart Disease (External Reviewer)
2016	AHA Meditation and Cardiovascular Disease
2019	SCAI, Finances and Economics of Cardiac Catheterization Laboratories (External Reviewer)

Grant Reviews

1994-2004	American Heart Association
2001-2007	Doris Duke Charitable Foundation
2012- curr	Ministry of Education and Science, Russian Federation
2012- curr	Qatar National Research Foundation
2013- curr	Sarnoff Foundation
2013- curr	Health Research Board (Ireland)
2013- curr	NIH (KL2 awards)

Doctoral Thesis Committees

2008	Nima Kasraie, Biomedical Engineering (Univ of Texas HSC San Antonio)
2019	Beu Oropeza, Biomedical Engineering (Univ of Texas El Paso)
2019	Michael Jiang, Biomedical (Cleveland Clinic University)

Course Director

1996-2002	Co-Director, Problems in Clinical Cardiology American College of Cardiology Course, Sante Fe, NM
2004-2008	Topics in Cardiovascular Medicine, Johns Hopkins University, Baltimore, MD
2006-2008	Cardiovascular Pathophysiology (MS2) Johns Hopkins SOM
2008-2014	Co-Director, Cardiovascular Medicine (MS2) UTHSCSA

Editorial Boards	Emedicine/Medscape – <i>Chief Editor (2011-current)</i>
	Catheterization and Cardiovascular Intervention - <i>Associate Editor (2011-current)</i>
	Journal of Investigative Medicine - <i>Associate Editor (2017-current)</i> - <i>Editorial Board (2015-17)</i>
	Circulation - <i>Editorial Board (2016-current)</i>
	JACC Cardiovascular Intervention - <i>Editorial Consultant (2017-current)</i>

American Journal of Cardiology
 - *Editorial Board (2010-current)*

Journal of Cardiovascular Pharmacology & Therapeutics
 - *Editorial Board (2010-current)*

American College of Cardiology, Lifelong Learning Program
 - *E-Learning Activities Editor (2015-current)*

Cardiology Review
 - *Editorial Advisory Board (2014-current)*

Cardiovascular System (current)
 - *Editorial Board (2016-current)*

American College of Cardiology, Lifelong Learning Program
 - *Associate Editor (2013-2015)*

CardioExchange (NEJM)
 - *Interventional Moderator (2011-2015)*

CardioExchange (NEJM)
 - *Interventional Moderator (2011-2015)*

Theheart.org (past)
 - *Editorial Board*

Practical Reviews, Cardiology (past)
 - *Administrative Editor*

Cardiology, Oakstone Medical Publishing (past)
 - *Editor*

Manuscript Review American Heart Journal
 American Journal of Cardiology
 American Journal of Physiology
 Annals of Internal Medicine
 Biological Psychiatry
 BioMed Central Research Notes
 BMJ Open
 Catheterization and Cardiovascular Intervention
 Chest
 Cleveland Clinic Journal
 Clinical Infectious Disease
 Consultant
 Circulation
 Circulation: Cardiovascular Interventions
 Expert Review of Cardiovascular Therapy
 Future Cardiology

Journal of the American College of Cardiology
 JACC Cardiovascular Intervention
 JAMA Cardiology
 Journal of Cardiac Failure
 Journal of Cardiovascular Pharmacology and Therapeutics
 Journal of Heart Valve Disease
 Journal of Invasive Cardiology
 Journal of Investigative Medicine
 Kidney International
 International Journal of Cardiology
 Italian Heart Journal
 Lancet
 The Medical Letter
 Molecular Biology and Medicine
 National Geographic
 New England Journal of Medicine
 Pediatrics
 Preventive Medicine
 Science and Perspectives (NIDA)

Funded Projects (Multicenter or Industry-Sponsored Trials)

Co-investigator, TIMI, phase II (completed)

Clinical Evaluation of the Velcom-100,
Waters Instr, Inc., \$16,000 (completed)

Recombinant Platelet Factor 4 After Cardiac Catheterization
Repligen Corporation, \$209,280 (completed)

Co-investigator, SHOCK Trial (PTCA in patients with
myocardial infarction and cardiogenic shock), NIH funded
\$2800 per patient (completed).

Co-Investigator TIMI 18, TACTICS Trial (completed).

Primary Investigator, A to Z Trial (completed).

Primary Investigator and U.S. Steering Committee,
TARGET Trial (completed).

Co-Investigator, OAT Trial (Open Artery Trial) (completed)

Co-Investigator, SYNERGY Trial (completed)

Primary Investigator, RESPECT Trial (completed)

Merlin-TIMI 36, CVT 3036, Sub-investigator (completed)

CORE-64, MDCT vs Cath (Toshiba) (completed)

Funded Projects (Agencies)

American Heart Assn, Texas Affiliate, BGIA	11/89-10/91
Role (Primary Investigator)	Direct: \$55,000
“Local Fibrinolytic Potential in Patients with Unstable Angina	
GOAL: The aim of this project was to investigate the role of tissue plasminogen activator and its inhibitor in the development of unstable angina.	
NIH (PI: Victor, Ron)	9/96-8/99
(Role: Co-Investigator, 10%)	\$774,000
“Cocaine and Sympathetic Nerve Activity in Humans”	
GOAL: The aim of this project was to establish the role of central and peripheral sympathetic nerve activation in the cardiovascular effects of cocaine in healthy human volunteers	
Donald W. Reynolds Foundation (Weiss)	07/03-6/10
Reynolds Cardiovascular Clinical Research Program	\$3,512,693
Sudden Cardiac Death	
GOALS: The Johns Hopkins Reynolds Center is a broad, multidisciplinary approach to the problem of sudden cardiac death (SCD) associated with atherosclerosis. The primary goal is to develop new means to identify individuals at risk for SCD and to develop novel therapies to prevent SCD in those individuals.	
HL081028-01 (PI: Hare, Marban, Lange)	09/30/05 - 08/31/10
NIH	\$9.2 million
(Role: Primary Investigator)	
Cellular Cardiomyoplasty for Acute and Chronic Ischemia”	
GOALS: This Specialized Center for Cell Therapeutics proposal aims to develop cellular cardiomyoplasty for the treatment of ischemic heart disease, both post-myocardial infarction, left ventricular dysfunction as well as chronic ischemic cardiomyopathy.	

5 R01DA12777-07(PI: Lai, Shenghan) 9/1/05 – 11/30/10
 NIH/NIDA (Role: Co-investigator, 5%) \$431,180

“Subclinical Atherosclerosis in HIV + Black Cocaine Users”

GOALS: The aim of this project is to describe prospectively the etiology and natural history of atherosclerosis and the ability of non-invasive tools to measure atherosclerotic burden in black men and women with HIV infection who abuse cocaine, and to investigate whether HIV infection, cocaine abuse, and protease inhibitor treatment accelerate atherosclerosis.

Cardiovascular Care Initiative 1/07-12/12
 Govt of Trinidad and Tobago \$30 million/5 yrs
 (Role: Originator)

GOALS: To assess and improve CV care in Trinidad and Tobago, and provide training to local physicians, nurses, and technicians in the areas of preventive, electrophysiology, invasive, and noninvasive cardiology.

Rbt J Kleberg and Helen C Kleberg Foundation 5/10-4/16
 “ A Model for Excellence in Medical Research \$2.475 million/6yrs
 For the Future of Health in South Texas”

GOALS: To provided MPH degree to 42 medical students and MPH certificate training to 25 residents and to implement formalized training, mentorship, and research models that will impact patient care in South Texas.

N01-HV-0024 (PI Lindsey) 08//10-08//15
 NIH \$11.6 million
 (Role: Co-Investigator)

UTHSCSA Cardiovascular Proteomics Center

GOALS: To develop novel proteomic technologies to identify predictive markers of adverse remodeling of the left ventricle following myocardial infarction, focusing on extracellular matrix generation as a key initiating event.

Publications

Articles

1. Lange RA, Jacobson MK. Synthesis of pyridine nucleotides by mitochondrial fractions of yeast. *Biochem Biophys Res Commun* 1977; 76:424-428.

2. Jacobson EL, Lange RA, Jacobson MK. Pyridine nucleotide synthesis in 3T3 cells. *J Cell Physiol* 1979; 99:417-426.
3. Albright SC, Wiseman JM, Lange RA, Garrard WT. Subunit structures of different electrophoretic forms of nucleosomes. *J Biol Chem* 1980; 255:3673-3684.
4. Van den Berg E, Pacifico A, Lange RA, Wheelan KR, Winniford MD, Hillis LD. Measurement of cardiac output without right heart catheterization: reliability, advantages, and limitations of a left-sided indicator dilution technique. *Cathet Cardiovasc Diagn* 1986; 12:205-208.
5. McBride W, Lange RA, Hillis LD. Restenosis after successful coronary angioplasty: pathophysiology and prevention. *N Engl J Med* 1988; 318:1734-1737.
6. Lange RA, Katz J, McBride W, Moore DM, Hillis LD. Effects of supine and lateral positions on cardiac output and intracardiac pressures. *Am J Cardiol* 1988; 62:330-333.
7. Lange RA, Hillis LD. How calcium antagonists affect various types of angina. *Cardiovasc Rev & Rep* 1988; 9:30-33.
8. Lange RA, Hillis LD. Evolving concepts in the treatment of acute myocardial infarction. *Am J Med Sci* 1988; 31:143-152.
9. Malloy CR, Lange RA, Klein DL, Jeffrey FM, Peshock RM, Willerson JT, Nunnally RL. Spatial localization of NMR signal with a passive surface gradient. *J Magn Res* 1988; 80:364-369.
10. Lange RA, Moore DM, Cigarroa RG, Hillis LD. Use of pulmonary capillary wedge pressure to assess severity of mitral stenosis: Is true left atrial pressure needed in this condition? *J Am Coll Cardiol* 1989; 13:825-829.
11. McBride W, Hillis LD, Lange RA. Complete heart block during retrograde left-sided cardiac catheterization. *Am J Cardiol* 1989; 63:375-376.

12. Cigarroa RG, Lange RA, Williams RH, Bedotto JB, Hillis LD. Underestimation of cardiac output by thermodilution in patients with tricuspid regurgitation. *Am J Med* 1989; 86:417-420.
13. Cigarroa RG, Lange RA, Williams RH, Hillis LD. Dosing of contrast material to prevent contrast nephropathy in patients with renal disease. *Am J Med* 1989; 86:649-652.
14. Lange RA, Hillis LD. Short and long-term complications of coronary angioplasty. *Chest* 1989; 96:151-157.
15. Cigarroa RG, Lange RA, Hillis LD. Prognosis after acute myocardial infarction in patients with and without residual antegrade coronary blood flow. *Am J Cardiol* 1989; 64:155-160.
16. Cigarroa RG, Lange RA, Hillis LD. Oximetric quantitation of intracardiac left-to-right shunting: Limitations of the Qp/Qs ratio. *Am J Cardiol* 1989; 64:246-247.
17. Schaefer S, Lange RA, Kulkarni PV, Katz J, Parkey RW, Willerson JT, Peshock RM. In-vivo nuclear magnetic resonance imaging of myocardial perfusion using the paramagnetic agent manganese gluconate. *J Am Coll Cardiol* 1989; 14:472-480.
18. Cigarroa RG, Lange RA, Hillis LD. Quantitative assessment of coronary arterial diameter before and after coronary artery bypass grafting. *Am J Cardiol* 1989; 64:261-263.
19. Lange RA, Cigarroa RG, Hillis LD. Angiographic characteristics of the infarct-related coronary artery in patients with angina pectoris after myocardial infarction. *Am J Cardiol* 1989; 64:257-260.
20. Lange RA, Dehmer GJ, Wells PJ, Tate DA, Jain A, Flores ED, Nichols TC, Hillis LD. Measurement of oxygen consumption and cardiac output: limitations of the metabolic rate meter. *Am J Cardiol* 1989; 64:783-786.
21. Flores ED, Lange RA. Anomalous origin of the right coronary artery from the left sinus of valsalva. *Cardiol Guide* 1989; Oct:22-24.

22. McBride W, Lange RA. Intimal hyperplasia and restenosis after coronary angioplasty. *J Vasc Surgery* 1989; 10: 579-581.
23. Flores ED, Lange RA, Hillis LD. Endomyocardial biopsy in patients with idiopathic dilated cardiomyopathy. *Cardiovasc Rev & Rep* 1989; 10:33-39.
24. Lange RA, Cigarroa RG, Yancy CW, Willard JE, Popma JJ, Sills MN, Hillis LD. Cocaine-induced coronary artery vasoconstriction. *N Engl J Med* 1989; 321:1557-1562.
25. Flores ED, Lange RA. Acute coronary occlusion following PTCA. *Cardiology Guide*, 1989; Dec:23-4.
26. Lange RA, Cigarroa RG, Hillis LD. Influence of residual antegrade coronary blood flow on prognosis after myocardial infarction in patients with multivessel coronary artery disease. *Coronary Artery Disease* 1990; 1:59-63.
27. Cigarroa RG, Lange RA, Popma JJ, Yurow G, Sills MN, Firth BG, Hillis LD. Ethanol induced coronary vasodilation in patients with and without coronary artery disease. *Am Heart J* 1990; 119:254-259.
28. Hillis LD, Lange RA, Cigarroa RG. Cardiac catheterization. *Cardiovasc Rev & Rep* 1990; 11:56-74.
29. Lange RA, Cigarroa RG, Wells PJ, Kremers MS, Hillis LD. Influence of antegrade flow in the infarct artery on the incidence of late potentials in acute myocardial infarction. *Am J Cardiol* 1990; 65:554-558.
30. Flores ED, Lange RA, Bedotto JB, Danziger RS, Hillis LD. Assessment of the sensitivity of hydrogen inhalation in the detection of left-to-right shunting. *Cathet Cardiovasc Diagn* 1990; 20:94-98.
31. Lange RA, Cigarroa RG, Flores ED, McBride W, Kim AS, Wells PJ, Bedotto JB, Danziger RS, Hillis LD. Potentiation of cocaine-induced coronary vasoconstriction by beta-adrenergic blockade. *Ann Int Med* 1990; 112:897-903.
32. Flores ED, Lange RA, Cigarroa RG, Hillis LD. Therapy of acute myocardial infarction in the 1990s. *Am J Med Sci* 1990; 299:415-24.

33. Flores ED, Lange RA, Cigarroa RG, Hillis LD. Effect of cocaine on coronary arterial dimensions in atherosclerotic coronary artery disease: enhanced vasoconstriction at sites of significant stenoses. *J Am Coll Cardiol* 1990; 16:74-79.
34. Lange RA, Flores ED, Hillis LD. Cocaine-induced myocardial ischemia and infarction. *Cardio* 1990; 7:74-79.
35. Lange RA. The cardiovascular complications of cocaine use. Medical Grand Rounds: The University of Texas Southwestern Medical Center. June 28, 1990.
36. Flores ED, Lange RA, Hillis LD. Vasoconstrictive effect of cocaine on coronary arteries. *Cardiol Board Rev* 1990; 7:47-53.
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