

Curriculum vitae

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Name: James A. de Lemos

Office Address: 5909 Harry Hines Blvd, Room HA9.133
Dallas, TX 75390-9047

Work Phone: 214-645-7500

Work E-Mail: James.delemos@utsouthwestern.edu

Work Fax: 214-645-7501

Place of Birth: Riverside, CA

Education

Year	Degree (Honors)	Field of Study	Institution
1997	Certificate	Clinical Effectiveness Program	Harvard School of Public Health
1992	M.D.	Medicine	Harvard Medical School
1987	B.A. (Summa Cum Laude)	Liberal Arts	The University of Texas at Austin

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline	Institution
1996-1999	Fellow	Cardiology	The Brigham and Women's Hospital, Boston, MA
1995-1996	Chief Resident	Internal Medicine	UT Southwestern Medical Center, Dallas, TX
1992-1995	Intern/Resident	Internal Medicine	UT Southwestern Medical Center, Dallas, TX

Current Licensure and Certification

Licensure

Texas (J4073), 1993

Board and Other Certification

American Board of Internal Medicine Certification, 1995

Cardiovascular Subspecialty Certification, 1999, renewed 2009

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
2011	Core Clerkship Teaching Award	UT Southwestern Medical School
2011	Super Doctors, Cardiology	<i>Texas Monthly</i>
2011	Best Doctors in Dallas, Cardiology	<i>D Magazine</i>
2010	Super Doctors, Cardiology	<i>Texas Monthly</i>
2010	Best Doctors in Dallas, Cardiology	<i>D Magazine</i>
2009	Elite Reviewer	<i>Journal of the American College of Cardiology</i>
2008	Elite Reviewer	<i>Journal of the American College of Cardiology</i>
2007	Elite Reviewer	<i>Journal of the American College of Cardiology</i>
2006	Elite Reviewer	<i>Journal of the American College of Cardiology</i>
2005	Best Doctors in Dallas, Cardiology	<i>D Magazine</i>
2005	Outstanding Teacher Award	Internal Medicine Training Program
2002-2004	Career Development Award	Glaxo-Smith-Kline
1998	Eugene Braunwald Fellow	Brigham and Women's Hospital
1998	Soma Weiss Award for excellence in teaching by a fellow	Brigham and Women's Hospital
1987	Phi Beta Kappa	The University of Texas at Austin
1987	Graduated <i>summa cum laude</i> with special honors	The University of Texas at Austin
1986	Presidential Scholar	The University of Texas at Austin
1982	National Merit Scholar	

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
2011-	Professor	Internal Medicine	UT Southwestern Medical Center
2009-	Sweetheart Ball-	Internal Medicine	UT Southwestern

	Kern Wildenthal, MD, PhD Distinguished Chair in Cardiology		
2005-2009	J. Fred Schoellkopf, Jr. Chair in Cardiology Research	Internal Medicine	UT Southwestern
2005-2011	Associate Professor	Internal Medicine	UT Southwestern
2000-2005	Assistant Professor	Internal Medicine	UT Southwestern
1999-2000	Instructor	Internal Medicine	Harvard Medical School
1996-1999	Clinical Fellow	Internal Medicine	Harvard Medical School
1995-1996	Assistant Instructor	Internal Medicine	UT Southwestern

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2000-2005	Attending Physician	Medicine/Cardiology	Dallas VA Medical Center
1999-2000	Associate Physician	Medicine/Cardiology	Brigham and Women's Hospital
1996-1999	Clinical Fellow	Medicine/Cardiology	Brigham and Women's Hospital
1995-1996	Attending Physician	Medicine	Parkland Memorial Hospital
1995-1996	Attending Physician	Medicine	Dallas VA Medical Center
<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
2002-	Attending Physician	Medicine/Cardiology	St. Paul University Hospital
2000-	Attending Physician	Medicine/Cardiology	Zale-Lipshy University Hospital
2000-	Attending Physician	Medicine/Cardiology	Parkland Memorial Hospital

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
2011-	Cardiology Service Chief	Parkland Memorial Hospital
2011-	Key Function PI for CTSA grant renewal application	UT Southwestern
2009-	Co-Director T32 Training Grant	UT Southwestern
2007-	Medical Director, Dallas Heart Study	UT Southwestern
2005-2011	Director, Cardiovascular Fellowship Training Program	UT Southwestern
2002-2011	Director MSIV Critical Care Rotation in Cardiology	UT Southwestern
2001-	Director, Coronary Care Unit	Parkland Memorial Hospital
2000-2002	Director, Outpatient Clinics	Parkland Memorial Hospital

1995-1996	Chief Medical Resident	UT Southwestern
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Committee Service (*Member, unless noted otherwise*)

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
2011-2012	Chair, Search Committee, Director of Interventional Cardiology	UT Southwestern
2009-2010	Chair, Research Committee, New University Hospital Design	UT Southwestern
2009	Co-chair, Clinical Research Excellence Task Force	UT Southwestern
2009	Clinical Science Education Subcommittee	UT Southwestern
2008-	T32 Training Grant Executive Committee	UT Southwestern
2005-	Executive Council, Cardiovascular Division	UT Southwestern
2005-2008	Committee to Evaluate Clinical Competence, Internal Medicine Training Program	UT Southwestern
2001-2002	Task Force to Evaluate Research in Clinical Departments	UT Southwestern
2000-	Interviewer, IM Residency Applicants	UT Southwestern
2000-	Curriculum Committee, Internal Medicine Residency Training Program	UT Southwestern
1999	St. Paul Cardiology Clinic Design Committee	UT Southwestern
1995-1996	Committee to Evaluate Clinical Competence, Internal Medicine Residency	UT Southwestern
1995-1996	Ambulatory Care Education Planning Committee, Internal Medicine Residency	UT Southwestern
1995-1996	Curriculum Committee, Internal Medicine Residency Training Program	UT Southwestern
<u>Hospital</u>		
2009-	Cardiovascular High Performance Committee	Parkland Memorial Hospital
2006-8	Resuscitation Committee	Parkland Memorial Hospital
2006-	Critical Care Committee	Parkland Memorial Hospital
2002-	Pharmacy P & T Cardiology Subcommittee	Parkland Memorial Hospital
2002-	Pharmacy P & T Anticoagulation Subcommittee	Parkland Memorial Hospital
2000-2003	Medicine Performance Improvement Committee	Parkland Memorial Hospital
1998-2000	Clinical Services Committee, Cardiology Division	Brigham and Women's Hospital, Harvard Medical School
1998-2000	Interviewer, Fellowship Selection Committee	Brigham and Women's Hospital,
1995-1996	Medicine Performance Improvement Committee	Parkland Memorial Hospital
1995-1996	Quality Assurance Reviewer	Parkland Memorial Hospital

1995-1996	ICU Committee	Parkland Memorial Hospital
1995-1996	Committee to Reorganize Medicine/Psychiatry Emergency Care	Parkland Memorial Hospital
1995-1996	Medical Records Committee	Dallas VA Medical Center
1995-1996	Laboratory Utilization Review Committee	Dallas VA Medical Center
1995-1996	Emergency Services Committee	Parkland Memorial Hospital
1993-1996	Parkland Center for Internal Medicine Planning Committee	Parkland Memorial Hospital
<u>National/International</u>		
2011-	Clinical Event Committee, RECORD trial	Duke Clinical Research Institute
2011-	Data Safety and Monitoring Board, REFINE- ICD Trial	University of Calgary
2010-2011	US Operations Committee, ECLIPSE Trial	Duke Clinical Research Institute
2010-2011	Data Safety and Monitoring Board, ELEVATE- TIMI 56 Trial	TIMI Research Group
2010-	Clinical Events Committee, Welcol Program	Daiichi-Sankyo
2009-2011	Data Safety and Monitoring Board, APPRAISE- 2 trial	Duke Clinical Research Institute
2009	Committee on Qualification of Biomarkers as Surrogate Endpoints in Chronic Disease Risk. Ad-hoc participant	Institute of Medicine
2008-2009	Clinical Event Committee, PLATO trial	Duke Clinical Research Institute
2007-2008	Data Safety and Monitoring Board, APPRAISE- 1 trial	Duke Clinical Research Institute
2007	Clinical Events Committee, VA Coronary Revascularization in Diabetes Study	VA Clinical Trials Program
2006	NHLBI workshop on CRP	NHLBI
2005-2009	Steering Committee, AVANT-GARDE TIMI 43	TIMI Research Group
2004	Steering Committee, USE BNP Trial	Siemens Diagnostics
2004	Steering Committee, ImPROVE IT Trial	TIMI Research Group and Duke Clinical Research Institute
2004-2007	Steering Committee, MERLIN Trial,	TIMI Research Group
2000-2003	Operations and Steering Committee, FASTER trial	TIMI Research Group
2001-2004	Lead Investigator and Executive Committee, A to Z Trial	TIMI Research Group and Duke Clinical Research Institute

Professional Societies

Dates	Society Name, member
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1998-2010-2012	American Heart Association (Fellow)
2006-2009	AHA/ACC STEMI Practice Guideline Writing committee
2005-2004-2007	Expert Panel on Subclinical Atherosclerotic Disease and Emerging Risk Factors Participant, Scientific Sessions Planning Committee (2005-6, 2009-present)
2002-2004	Acute Cardiac Care Committee
2010	Young Clinician-Investigator Committee
2000-	Peer Reviewer, STEMI/NSTEMI Performance Measures Statement
	Abstract Reviewer 2000-present
1996-2011-2012	American College of Cardiology (Fellow)
2010-2012	Scientific Sessions Program Planning Committee
2007-	ACC/AHA STEMI Practice Guideline Writing committee
2010-	ACTION™ (Acute Coronary Treatment and Interventions Outcomes Network)
2010-	Steering Committee
2007-2010	Chair, Research and Publications Committee
2006	Member, Research and Publications Committee
2000-	Peer Reviewer, STEMI Guideline Update
2007-	Abstract Reviewer (2000-present)
	ACC Foundation Research Awards Review and Selection Committee
2011-2011-	Society of Chest Pain Centers
	Board of Trustees
1993-1996	American College of Physicians
1992-	Texas Medical Association
1992-	Dallas County Medical Society
1990-2001	Massachusetts Medical Society
1990-1994	American Medical Association

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2011	2012/01 ODCS Oral, Dental and Craniofacial Sciences Study Section	NIH
2011	Annual Contestable Funding Round	Health Research Council of New Zealand
2010-	SBIR Study Section (ZRG1 CVRS-B 10 B, Small Business: Cardiovascular Sciences)	NIH
2009	Peer Reviewer, Challenge Grants	NIH
2008	Peer Reviewer	Catalan Agency for Health Technology Assessment and Research, Spain
2008	Annual Contestable Funding Round	Health Resource Council of New Zealand
2007	Peer Reviewer	UK National Health Service, UK
2007-present	ACC Foundation Research Awards Review committee	American College of Cardiology

2007-09	Pilot Awards Program	North and Central Texas Clinical and Translational Science Initiative (NCTCTSI)
2006	Peer Reviewer	VA Merit Awards
2005	Peer Reviewer	Health Services R&D Awards, Ireland

Editorial Activities

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
	<i>Cardioexchange.com (Fellowship section co-editor)</i>
<u>Editorial Board</u>	
	<i>Journal of the American College of Cardiology</i>
	<i>The American Journal of Cardiology</i>
	<i>The American Heart Journal</i>
	<i>Cardiology in Review (past)</i>
<u>Ad Hoc Reviewer</u>	
	<i>New England Journal of Medicine</i>
	<i>Journal of the American Medical Association</i>
	<i>The Lancet</i>
	<i>Nature Medicine</i>
	<i>Circulation</i>
	<i>Journal of the American College of Cardiology (Elite Reviewer 2006,2007,2008,2009)</i>
	<i>The American Heart Journal</i>
	<i>The American Journal of Cardiology</i>
	<i>European Heart Journal</i>
	<i>Heart</i>
	<i>Clinical Chemistry</i>
	<i>Archives of Internal Medicine</i>
	<i>American Journal of Medicine</i>
	<i>Annals of Internal Medicine (Distinguished Reviewer 2005)</i>
	<i>Atherosclerosis</i>
	<i>Atherosclerosis, Thrombosis, and Vascular Biology</i>
	<i>Kidney International</i>
	<i>Clinical and Experimental Medicine</i>
	<i>Coronary Artery Disease</i>
	<i>Journal of Cardiac Failure</i>

Grant Support

<u>Present</u>	<i>Grantor: NIH RO1 HL087768</i>
	<i>Title of Project: The GoodNEWS Trial</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Investigator</i>
	<i>Annual amount and date (direct costs only): 2007-2012</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$1,903,932</i>
	This is a randomized controlled trial testing a community-based participatory intervention to lower cardiovascular risk in predominantly African American churches in Dallas.
	<i>Grantor: Roche Diagnostics (Investigator-initiated Grant)</i>
	<i>Title of Project: Correlation of Changes in Biomarkers with Incidence and Progression of Subclinical Cardiovascular Disease in the Dallas Heart Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 2011-2013 \$159,432+ materials</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This project will perform measurement of novel biomarker in the return DHS visit and correlate serial changes with changes in cardiovascular phenotypes over an 8 year period.
	<i>Grantor: Abbott Diagnostics (Investigator-initiated Grant)</i>
	<i>Title of Project: Sensitive troponin measurements in cardiac transplant rejection and pulmonary hypertension</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 2011-2013 \$88,400+materials</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This project will perform measurement of troponin T, using a novel highly sensitive assay, in two cohorts: one with cardiac transplant (to evaluate transplant rejection) and one with pulmonary hypertension
<u>Past</u>	<i>Grantor: NHLBI SBIR Contract HHSN2682010 00003C Subcontract IOS #31 92-NIH-ACS</i>
	<i>Title of Project: Lateral-flow immunoassay platform for multiplexed cardiac biomarkers measurement</i>
	<i>Role (Principal Investigator, Co-Investigator): Subcontract Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 2009-2010 \$169,997</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	The goal of this project was to develop a point of care test strip for cardiovascular biomarkers
	<i>Grantor: Roche Diagnostics (Investigator-initiated Grant)</i>
	<i>Title of Project: Highly sensitive troponin T in the Dallas Heart Study</i>

	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 2009-2010 \$62,450</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This project evaluated a novel, highly sensitive assay for cardiac troponin T as a screening test for cardiovascular disease in the community
	<i>Grantor: Donald W. Reynolds Foundation</i>
	<i>Title of Project: Return to the Dallas Heart Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Investigator</i>
	<i>Annual amount and date (direct costs only): 2006-2009 \$6,622,722</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$6,622,722</i>
	This grant supported the return visit for the Dallas Heart Study cohort
	<i>Grantor: Biosite, Inc. (Investigator-initiated Grant)</i>
	<i>Title of Project: Biomarker Discovery in the Dallas Heart Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): 2006-2009 \$255,000</i>
	This is an ongoing discovery project designed to identify novel biomarkers of cardiovascular disease, with an ultimate goal of creating multiple biomarker panels for population screening.
	<i>Grantor: Rules Based Medicine (Investigator-initiated Grant)</i>
	<i>Title of Project: Evaluation of a multiple biomarkers in a chest pain unit</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 2007 \$10,000</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This was a pilot study evaluating a large biomarker panel in a chest pain unit population.
	<i>Grantor: Glaxo-Smith-Kline (Investigator-initiated Grant)</i>
	<i>Title of Project: Evaluation of LP-PLA2 in the Dallas Heart Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$52,000 2006</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This project evaluated the associations between LP-PLA2, a novel inflammatory biomarker, and subclinical coronary and peripheral atherosclerosis.
	<i>Grantor: Biosite, Inc. (Investigator-initiated Grant)</i>
	<i>Title of Project: Evaluation of a multiple biomarker panel to detect ischemia in a chest pain unit</i>

	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$80,000 2004</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This project evaluated a poing of care device for biomarker measurement in the emergency room.
	<i>Grantor: NIH 7 RO1 AT 0005-03</i>
	<i>Title of Project: Effect of High Dose Alpha Tocopherol on Carotid Atherosclerosis</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Investigator (10% effort)</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):2002-2005</i>
	The goal of this project was to evaluate the potential protective effects of vitamin E on carotid atherosclerosis
	<i>Grantor: Merck and Co.</i>
	<i>Title of Project: The A to Z Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Principal Investigator</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):2001-2004</i>
	This was a two –phased multicenter, randomized, double-blind, placebo-controlled clinical trial evaluating the efficacy and safety of early intensive statin therapy in patients with acute coronary syndromes (phase Z). It also compared low molecular weight heparin vs unfractionated heparin (phase A).
	<i>Grantor: Free Fatty Acid Sciences, Inc. (Investigator-initiated Grant)</i>
	<i>Title of Project: Development of Novel Biomarkers of Cardiac Ischemia</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$62,500 2004</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This study used a human model of cardiac ischemia (rapid atrial pacing) to evaluate unbound free fatty acid as a novel ischemia biomarker.
	<i>Grantor: Ischemia Technologies, Inc. (Investigator-initiated Grant)</i>
	<i>Title of Project: Development of Novel Biomarkers of Cardiac Ischemia</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$12,500 2004</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This study used a human model of cardiac ischemia to evaluate Ischemia Modified Albumin as a novel ischemia biomarker

	<i>Grantor: Roche Diagnostics (Investigator-initiated Grant)</i>
	<i>Title of Project: NT-proBNP, hs-CRP, and cTnT in the Dallas Heart Study</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$332,744 2003-2004</i>
	This study performed comprehensive evaluation of the cardiac and non-cardiac sources of variation of hs-CRP, cTnT, and NT-proBNP in the general population.
	<i>Grantor: Glaxo-Smith-Kline (Career Development Award)</i>
	<i>Title of Project: Identification of Novel Protein Markers of Cardiac Ischemia</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$100,000 2003-2004</i>
	This study developed a discovery platform for identifying and validating potential ischemia biomarkers.
	<i>Grantor: Pfizer (Investigator-initiated Grant)</i>
	<i>Title of Project: Prospective risk-factor intervention in a multi-ethnic population</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$60,000 2001</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	This study tested a pharmacist-based program for lipid management in an underserved population
	<i>Grantor: Merck and Co. (Investigator-initiated Grant)</i>
	<i>Title of Project: Cost-effectiveness analysis of tirofiban in acute coronary syndromes</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$15,000 2001</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	A cost-effectiveness model was developed to evaluate tirofiban use in acute coronary syndromes
	<i>Grantor: Spectral Diagnostics</i>
	<i>Title of Project: Use of a rapid bedside assay for myoglobin to predict reperfusion after thrombolytic therapy: a substudy of the TIMI 14 trial</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): 1998</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
	A rapid bedside test for myoglobin was used for risk assessment and noninvasive

	detection of reperfusion success after fibrinolytic therapy.
	<i>Grantor:</i> Brigham and Women’s Hospital NIH Training Grant
	<i>Title of Project:</i> Public Health Services Grant HL07604-13
	<i>Role (Principal Investigator, Co-Investigator):</i> Trainee
	<p>From 1998-2000, specific portions of the budgets for operational direction of these trials (and substudies within these trials) were designated for my salary support.</p> <p>TIMI 14 - Centocor Inc., Eli Lilly & Co. InTIME-II - Bristol Myers Squibb TACTICS/TIMI 18 – Merck and Co. ER/TIMI 19 –Centocor Inc. FASTER – Merck and Co. INTEGRITI – Cor Therapeutics Inc, Schering-Plough Research Institute A2Z – Merck and Co. PROVE IT – Bristol Myers Squibb</p>

Teaching Activities

<u>Year(s)</u>	<u>Activity</u>
<u>Medical and graduate school didactic and small group teaching</u>	
2000-present	Core didactic lectures to Cardiology Fellows on management of acute coronary syndromes, annual
2006-present	Core didactic lectures to Internal Medicine residents on principles of management of acute coronary syndromes, annual
2006-present	Core didactic lectures to Emergency Medicine residents, “Management of Non ST elevation Acute Coronary Syndromes,” annual since 2006
2000-present	Cardiology Clinical Conference (30 min case-based lecture), annual
2006-present	Fellows Journal Club, moderator, weekly
2004-present	Fellows research conference, moderator, weekly
<u>Dissertation committees</u>	
2010	Keith Bernardo
<u>Committees concerned with medical and graduate student education</u>	
2012	Clinical Science Education Committee, Institutional Six Year Plan
2009	Clinical Science Education Committee, Institutional Five Year Plan
2002-2010	Acute Care Committee for Fourth Year Student Rotations
2000-2011	Curriculum Committee, Internal Medicine Residency Training Program

2005-2008	Committee to Evaluate Clinical Competence, Internal Medicine Training Program
<u>Graduate student rotations</u>	
2001-present	Coronary Care Unit Parkland Hospital, Medical Director Attending physician (average 3 months per year)
2000-present	Parkland Cardiology Outpatient Clinic (Cardiology fellows clinic) Medical Director, 2000-2001 Attending physician, 2000-present (average 2 days/month)
2000-present	Parkland Cardiology Consult Service, average 2 weeks per year
2002-present	St. Paul University Cardiology Service, average ½-1 month per year
2009-present	St. Paul University Cardiology Consult Service, average 2 weeks/year
2009-present	UT Clinical Heart Center, preceptor for PA students, 6 days/year
<u>Medical student rotations</u>	
2002-2011	Director Acute Care Clerkship in Cardiology
2001-present	Coronary Care Unit Parkland Hospital, Medical Director Attending physician (average 3 months per year)
2000-present	Parkland Cardiology Consult Service (4 th year elective), average 2 weeks per year
2009-present	St. Paul University Cardiology Consult Service, average 2 weeks/year
<u>Postdoctoral trainees</u>	
2000-2001	Stanley Watkins, MD
2003-2004	Amit Khera, MD, MS
2002-2004	Rajat Deo, MD
2003-2004	Vivian Mo, MD
2004-2005	Sandeep Das, MD, MPH
2004-2006	Shuaib Abdullah
2004-2006	Alice Chang, MD
2005-2006	Tom Wallace, MD
2005-2007	Usman Baber, MD
2005-2007	Rapheal See, MD
2004-2010	Shailja Parikh, MD
2006-2010	Sachin Gupta, MD
2007-2009	Anand Rohatgi, MD
2007-2009	Frances Wood, MD
2009-2010	Leticia Castillo, MD
2008-2009	Andrew Owens, MD
2008-2009	Nitin Gupta, MD
2009-2011	Tiffany Powell, MD, MPH
2010-2011	Ann Nguyen, MD

2010-2012	Lu Chen, MD, MPH
2011-2013	Ian Neeland, MD

Invited Lectures

Year(s)	Title	Location
<u>International</u>		
2011	Mexican Congress of Cardiology: “Sensitive Troponins” and “Biomarkers in Congestive Heart Failure”	Puerta Vallarta, Mexico
2011	University of Puerto Rico Veterans Hospital Grand Rounds “Using Biomarkers, Genetics and Imaging to Identify Candidates for Cardiovascular Prevention.”	San Juan, Puerto Rico
2010	Sao Paulo State Cardiology Society (SOCER) Annual Meeting. Keynote lecture on “Biomarkers of Atherothrombosis,” and second lecture “Targets for Lipid Lowering,”	Sao Paulo, Brazil
2009	Society of Cardiology de Rio de Janeiro, Brazil. Keynote Speaker: “Antiplatelet therapy in Acute Coronary Syndromes” and “Risk Stratification in Acute Coronary Syndromes.”	Rio de Janeiro, Brazil
2008	6 th Annual Center for Heart Failure Research Symposium. “Biomarkers in the Dallas Heart Study.”	Oslo, Norway
2008	6 th International Symposium on NT-proBNP. “Cardiovascular Risk in General Populations.”	Baveno, Italy
2005	“Novel Biomarkers.” Joint ESC/ACC Symposium at the European Society of Cardiology Meeting	Stockholm, Sweden
2004	Invited Lecturer, Canadian Cardiovascular Society Scientific Sessions. Multiple Lectures on Acute Coronary Syndromes and Risk Stratification	Calgary, Canada
2004	Lecture series in Taipei, Kowshun, Taishung, Taiwan: “Contemporary management of acute coronary syndromes”	Taipei, Kowshun, Taishung, Taiwan
2003	Mexican Society of Cardiology. Lectures on Acute MI, Reperfusion Therapy, Statin Agents in Acute Coronary Syndromes.	Monterrey, Mexico
2003	Invited Faculty, Cardiology Society of Sao Paulo, Sao Paulo Brazil. Multiple lectures on acute coronary syndromes and biomarkers	Sao Paolo, Brazil

2002	Distinguished Speaker. Asociación Nacional de Cardiólogos de México. Multiple Lectures on various topics in Acute Coronary Syndromes	Acapulco, Mexico
2001	European Heart House University Program, Cannes, France. Management of the CHD Patient at Hospital Discharge. Lecture: "When Should Statins be Started Following an Acute Coronary Syndrome?"	Cannes, France
2000	Symposia, Taipei and Kowshon, Taiwan, "Statins in acute coronary syndromes"	Taipei and Kowshon, Taiwan
2000	International Society of Atherosclerosis, Stockholm, Sweden, "Infection, Inflammation, and Statins in ACS"	Stockholm, Sweden
<u>National</u>		
2011	AHA Scientific Sessions; "Risk Models and Biomarkers in ACS"	Orlando, FL
2011	Cadiometabolic Health Congress: "Biomarkers of Cardiac Stress and Injury"	Boston, MA
2011	Cardiology Grand Rounds, Brigham and Women's Hospital. "Sensitive troponin assays: one step forward, two steps back?"	Boston, MA
2011	ACC Board Review Course. Lectures on "Non ST Elevation Acute Coronary Syndromes" and "Pharmacology of Antithrombotic Agents"	Chicago, IL
2011	Vascular Biology Working Group Meeting: "Plasma Biomarkers: what about a multiple biomarker strategy"	New Orleans, LA
2011	California Pacific Hospital Cardiology Grand Rounds. "Biomarkers for Risk Assessment in Cardiology"	San Francisco, CA
2010	Visiting Professor, University of Wisconsin. Cardiology Grand Rounds: "Biomarkers in Cardiovascular Disease." Internal Medicine Grand Rounds: "Controversies in Antiplatelet Therapy for Acute Coronary Syndromes"	Madison, WI
2010	AHA Quality, Outcomes Research Meeting, "Utility of Biomarkers to Enhance CVD Risk Prediction"	Washington, DC
2010	Keynote Debate, American Heart Association Epidemiology Annual Meeting. "Pro: Novel Risk Markers and Screening Tests Will Improve the Prediction and Prevention of Cardiovascular Disease"	San Francisco, CA

2010	Cardiology Grand Rounds, University of Minnesota. “Biomarkers in Cardiovascular Disease: A Paradigm for Personalized Medicine	Minneapolis, MN
2009	The 35 th Annual Williamsburg Conference on Heart Disease. “Diagnosis and Risk Assessment of Acute Coronary Syndromes” and “Early Lessons from the Dallas Heart Study	Williamsburg, VA
2009	ACC Board Review Course. Lectures on “Non ST Elevation Acute Coronary Syndromes” and “Pharmacology of Antithrombotic Agents	Las Vegas, NE
2009	Institute of Medicine Committee on Qualification of Biomarkers as Surrogate Endpoints in Chronic Disease. Lecture: “Troponin as a Case Study for Cardiac Biomarkers	Washington, DC
2009	American College of Cardiology Satellite Symposium. “Realities of Contemporary Angina Management	Orlando, CA
2009	Cardiology Grand Rounds, University of Pennsylvania, “Biomarkers in Cardiovascular Disease: a paradigm for personalized medicine?”	Philadelphia, PA
2009	Research Seminar, University of Pennsylvania, “Biomarkers in the Dallas Heart Study.”	Philadelphia, PA
2009	Atherosclerotic Cardiovascular Disease from Pathophysiology to Management: New Insights, Symposium at Cedars Sinai Medical Center. “Non Traditional Risk Factors—from CRP to Gene Polymorphisms: Do They Really Help?”	Los Angeles, CA
2008	Cardiology Grand Rounds, Case Western Reserve. “Biomarkers in Cardiology: promises and pitfalls	Cleveland, OH
2008	Cardiology Grand Rounds, University of California, Davis. “Biomarkers for Risk Assessment in the General Population	Sacramento, CA
2008	17th Annual Cardiology update for Primary Care. “What are appropriate lipid targets for 2008?”	Omaha, NE
2008	24 th Annual Cardiology Conference. “The emerging role of biomarkers in cardiovascular disease: present status and future challenges	Sioux City, IA
2008	Critical Markers of Disease Symposium. “Biomarkers of Thrombosis,” and “Population Screening.”	Bethesda, MD
2008	ACC Board Review Course. Lectures on “Non	Las Vegas, NE

	ST Elevation Acute Coronary Syndromes” and “Pharmacology of Antithrombotic Agents”	
2008	3 rd International Symposium on Integrated Biomarkers In Cardiovascular Disease. “Biomarkers and Genetics for the Detection of Preclinical Heart Disease: insights from the Dallas Heart Study.”	Seattle, WA
2008	The 9 th Annual Antithrombotic Therapy Symposium. Eberhart Memorial Lecture in Coagulation Sciences “Biomarkers of Atherosclerosis and Thrombosis.”	Detroit, MI
2008	University of California San Diego Biomarker Summit. “Biomarkers in the Dallas Heart Study.”	San Diego, CA
2007	Cardiology Grand Rounds, SUNY Stonybrook. “Acute Coronary Syndromes: an update.	Stoneybrook, NY
2007	Cardiology Grand Rounds, Grady Memorial Hospital. “Antiplatelet agents in acute coronary syndromes: old problems, new drugs.”	Atlanta, GA
2007	Cardiology Grand Rounds, University of Michigan Medical Center. “Biomarkers in Cardiovascular Disease: First steps in the move to personalized medicine?”	Ann Arbor, MI
2007	American Heart Association Plenary Lecture: “Antithrombotic Therapy in ACS from Door to Discharge”	Orlando, FL
2007	2007 NHLBI/FDA Biomarker Symposium “Biomarkers of Congestive Heart Failure.”	Bethesda, MD
2007	ACC Board Review Course. Lectures on “Non ST Elevation Acute Coronary Syndromes” and “Pharmacology of Antithrombotic Agents,”	Las Vegas, NE
2007	4 th Symposium on the Burden of Atherothrombotic Disease: Diagnosis and Therapy. Lecture: “The Dallas Heart Study.”	New York, NY
2007	AHA Satellite Symposium on <u>Biomarkers in Acute Coronary Syndromes</u> . Lecture “Troponins Tried and New.”	New Orleans, LA
2007	Internal Medicine Grand Rounds, The University of Hawaii. “Biomarkers in Cardiovascular Disease: moving towards a personalized medicine approach.”	Honolulu, HA
2007	UCSD Biomarker Summit. “Biomarkers in the Dallas Heart Study.”	San Diego, CA
2006	AHA Scientific Sessions, Invited Symposium Lecture. “Multiple Biomarker Strategies for	Orlando, FL

	Risk Stratification in the Acute Coronary Syndromes.”	
2006	Cardiology Grand Rounds, Oschner Medical Center, New Orleans LA. “Management of the Acute Coronary Syndromes.”	New Orleans, LA
2006	Cardiology Grand Rounds, Tulane Medical Center, New Orleans LA; “Antiplatelet and Antithrombotic Strategies in ACS”	New Orleans, LA
2006	University of Virginia 19 th Annual Seminar on Advances in Cardiovascular Medicine, Charlottesville, VA: “Cardiac markers and their clinical significance.”	Charlottesville, VA
2006	Boehringer Ingelheim Expert Panel on Atherosclerosis, New York, NY: “Clinical development of novel therapies for atherosclerosis: the role of biomarkers, imaging and surrogate endpoints.”	New York, NY
2006	2006 Biomarker Symposium with FDA, Bethesda MD: “Biomarkers of Congestive Heart Failure.”	Bethesda, MD
2006	Cardiology Grand Rounds, Yale Medical School, New Haven CT: “Antiplatelet and antithrombotic strategies in ACS.”	New Haven, CT
2006	American College of Physicians Symposium, Philadelphia on “Prevention of atherothrombotic disease.” Lecture: “Diagnostic Pathways to Atherothrombotic Disease: Identifying High Risk Patients.”	Philadelphia, PA
2006	Symposium: “Risk Stratification in ACS,” at ACC Scientific Sessions, Atlanta Topic: “Biomarkers”	Atlanta, GA
2005	Plenary Lecture, American Heart Association Scientific Sessions “Challenges in Acute Coronary Syndromes: Biomarkers and Diagnosis.”	New Orleans, LA
2005	Invited lecture, Washington University, St. Louis, MO “Biomarkers in Acute Coronary Syndromes.”	St. Louis, MO
2005	University of Kansas Cardiovascular Symposium. Keynote Speaker: “Acute Coronary Syndromes” and “Acute Myocardial Infarction	Wichita, KS
2004	AHA Symposium, Risk Stratification in Acute Coronary Syndromes, “Natriuretic Peptides in ACS”	New Orleans, LA

2004	Cardiac Marker Summit, “Natriuretic Peptides in Ischemic Heart Disease	Louisville, KY
2004	Transcatheter Therapeutics Meeting, Symposium Chair “Cardiac Markers,” and lecture, “Enoxaparin in Acute Coronary Syndromes	Washington, DC
2004	College of American Pathologists National Meeting: “Clinical Applications of Cardiac Biomarkers	Phoenix, AZ
2004	American College of Cardiology Board Review Course, Atlanta, GA 2 lectures and case presentations about acute coronary syndromes and antithrombotic therapies	Atlanta, GA
2004	5 th Annual Antithrombotic Therapy Symposium, Detroit. “Adjunctive Therapies for STEMI	Detroit, MI
2004	Symposium Chair, American College of Cardiology Meeting, New Orleans. “Markers of Atherogenic Risk: The Old and the New	New Orleans, LA
2003	AHA Satellite Symposium: “ Standards in ACS from Diagnosis to Discharge.” Lecture: “Novel Cardiac Markers: sCD40L, BNP, and Multimarker Approaches	Orlando, FL
2003	Transcatheter Therapeutics Meeting, Invited Faculty. “New Tools for Risk Stratification in ACS” and “Enoxaparin in ACS	Washington, DC
2003	College of American Pathologists: “Troponin, the natriuretic peptides and other biochemical markers: understanding heart disease.	San Diego, CA
2003	American College of Cardiology Board Review Course: “ST Elevation MI” and “Antithrombotic Therapies	Chicago, IL
2003	Emerging Science of Lipid Management, Regional Co-Chair	New York, NY
2003	Cardiology Grand Rounds, The University of Michigan Medical School: “Novel Cardiac Markers for Risk Stratification in Acute Coronary Syndromes	Ann Arbor, MI
2003	Cardiology Grand Rounds, Tulane University Medical School. “Integrating Risk Stratification into Clinical Decision Algorithms for Acute Coronary Syndromes”	New Orleans, LA
2003	Cardiology Grand Rounds, Vanderbilt Medical Center, Nashville TN “Biomarkers in Ischemic Heart Disease: Integrating Pathophysiology and Risk Stratification	Nashville, TN

2003	American College of Cardiology Symposium “Cardiology at Big Sky.” Lectures on “Management of ST elevation MI” and “Antiplatelet and Antithrombotic Therapies	Big Sky, MO
2003	Vascular Biology Working Group. “Novel Cardiac Biomarkers for Risk-Stratification in Patients with Acute Coronary Syndromes	Chicago, IL
2002	Fifth Annual Joint Summit on Markers in Cardiology. “Myoglobin, a “Blue Collar” Marker’s Application in Patients with Acute Coronary Syndromes	Louisville, KY
2002	4 th Annual Mount Sinai Acute Coronary Syndromes Symposium. Lectures on “Serum Markers” and “Incorporating Combination Pharmacologic and PCI approaches for ST elevation MI”	New York, NY
2002	American College of Cardiology Board Review Course, “Antiplatelet and Antithrombotic Agent in Acute Coronary Syndromes	Chicago, IL
2002	Emerging Science of Lipid Management, Regional Co-Chair	New York, NY
2002	Grand Rounds, Geisinger Medical Center, Danforth PA: “Advances in Antithrombotic Therapy for Acute Coronary Syndromes	Danforth, PA
2001	Transcatheter Cardiovascular Therapeutics Meeting, Washington DC, “Harmonizing mechanical and pharmacologic therapies For Acute MI—Beyond TIMI 3 Flow: The role of static and continuous ECG Monitoring”	Washington, DC
2001	American College of Cardiology Board Review “Antiplatelet and Antithrombotic Agent in ACS”	Chicago, IL
2000	American Heart Association Annual Meeting: “How to assess myocardial reperfusion: invasive and noninvasive approaches.”	Ananheim, CA
2000	Transcatheter Cardiovascular Therapeutics Meeting, Washington DC, “Redefining reperfusion in AMI: Optimizing microvascular flow, restoring myocardial metabolism—	Washington, DC
2000	Transcatheter Cardiovascular Therapeutics Meeting, Washington DC, “Pathophysiology of plaque formation, regression, and rupture—Can statins interrupt natural history?”	Washington, DC
2000	State of the Art Lecture: The 4 th National	Baltimore, MD

	Congress of Chest Pain Centers, Baltimore, MD, “The effects of combined thrombolytic and platelet inhibitor therapy on myocardial and microvascular perfusion.”	
<u>Regional/Local</u>		
2011	Texas Heart Institute Cardiology Grand Rounds. “Biomarkers in Cardiovascular Disease: focus on population screening	Houston, TX
2010	Cardiology Fiesta. Lectures on “Protein Biomarkers in Heart Disease,” and “How to develop a career in academic cardiology	San Antonio, TX
2010	Baylor Cardiovascular Summit. “How to choose an antiplatelet agent for my patient”	Dallas, TX
2009	Cardiology Fiesta 2009 Symposium, “Translating Research Studies into Clinical Practice: my top 10 suggestions	San Antonio, TX
2009	Texas Tech University First Annual Update in General Internal Medicine. Keynote address:”Biomarkers, Imaging, and Genetics: Ready for my primary care practice?”	Lubbock, TX
2008	Cardiology Fiesta. “Lessons from the Dallas Heart Study.”	San Antonio, TX
2008	UT Southwestern Preventive Cardiology Symposium. “New Goals for Lipid Lowering Therapy.”	Dallas, TX
2008	Southwest Cardiology Summit. “Controversies in Antiplatelet Therapy.”	Dallas, TX
2007	Cardiology Fiesta. Lectures: “Lessons for San Antonio from the Dallas Heart Study” and “Biomarkers in Cardiovascular Disease.”	San Antonio, TX
2006	Cardiology Fiesta, San Antonio Texas: “Statins and Pleoptrophic Effects” and “Biomarkers for Individualizing Therapy	San Antonio, TX
2005	Internal Medicine Grand Rounds, Baylor University Medical Center, Dallas, TX “Biomarkers in Cardiovascular Disease: integrating pathophysiology into clinical practice	Dallas, TX
2005	American College of Cardiology Board Review Course, Two lectures and case presentations	Dallas, TX
2004	Texas Heart Institute Grand Rounds (2 lectures) “Novel Applications of Cardiac Biomarkers in	Houston, TX

	Acute Coronary Syndromes” and “BNP in Cardiovascular Disease	
2004	Medicine Grand Rounds, UT Tyler Medical Center: “Advances in Antithrombotic Therapy for Acute Coronary Syndromes.”	Tyler, TX
2003	Cardiology Grand Rounds, Wilford Hall Medical Center. “Recent Advances in Acute Coronary Syndrome Diagnosis and Management	San Antonio, TX

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	de Lemos JA, Dryer G, Gerstmann DR, de Lemos RA. Oliguria in the premature baboon with hyaline membrane disease: a manifestation of multisystem immaturity. <i>J Perinatol</i> 1989;9:19-25.
2.	de Lemos RA, Roberts RJ, Coalson JJ, de Lemos JA, Null DM, Gerstmann DR. Toxic effects associated with the administration of deferoxamine in the premature baboon with hyaline membrane disease. <i>Am J Dis Child</i> 1990;144:915-9.
3.	de Lemos RA, Coalson JJ, de Lemos JA, King RJ, Clark RH, Gerstmann DR. Rescue ventilation with high frequency oscillation in premature baboons with hyaline membrane disease. <i>Pediatr Pulmon</i> 1992;12:29-36.
4.	de Lemos JA, Antman EM, Giugliano RP, McCabe CH, Murphy SA, Gibson CM, Braunwald E, for the TIMI 14 Investigators. ST resolution and infarct related artery patency and flow after thrombolytic therapy. <i>Am J Cardiol</i> 2000; 85:299-304
5.	de Lemos JA, Antman EM, Gibson CM, McCabe CH, Giugliano RP, Murphy SA, Coulter SA, Anderson K, Scherer J, Frey M, Van der Wieken R, Van de Werf F, MD, Braunwald E, for the TIMI 14 Investigators. Abciximab improves both epicardial flow and myocardial reperfusion in ST elevation myocardial infarction: observations from the TIMI 14 trial. <i>Circulation</i> 2000; 101:239-43
6.	Morrow DA, Rifai N, Tanasijevic MJ, Wybenga DR, de Lemos JA, Antman EM. Clinical efficacy of three assays for cardiac troponin I and risk stratification in acute coronary syndromes: a Thrombolysis in Myocardial Infarction (TIMI) 11B substudy. <i>Clin Chem</i> 2000; 46:453-60.
7.	de Lemos JA, Antman EM, Morrow DA, Llevadot J, Giugliano RP, Coulter SA, Schuhwerk KC, Arslanian S, McCabe CH, Gibson CM, Rifai N. Heart-type Fatty Acid Binding Protein as a marker of reperfusion after thrombolytic therapy. <i>Clin Chimica Acta</i> 2000; 298:85-97.
8.	de Lemos JA, Hennekens CH, Ridker PM. Plasma concentration of soluble Vascular Cell Adhesion Molecule-1 and subsequent cardiovascular risk. <i>J Am Coll Cardiol</i> 2000; 36:423-6.
9.	de Lemos JA, Antman EM, Giugliano RP, Morrow DA, McCabe CH, Charlesworth A Schröder R, Braunwald E, for the InTIME II Investigators. Very early risk stratification after thrombolytic therapy using a bedside myoglobin assay and the 12-lead ECG. <i>Am Heart J</i> 2000; 140:373-8.
10.	Morrow DA, Antman EA, Charlesworth A, Cairns R, Murphy SA, de Lemos JA, Giugliano RP, McCabe C, Braunwald E. The TIMI Risk Score for ST elevation myocardial infarction: a

	convenient, bedside, clinical score for risk assessment at presentation: an InTIME II substudy. <i>Circulation</i> 2000 102:2031-7.
11.	Antman EM, Gibson CM, de Lemos JA, Giugliano RP, McCabe CH, Coussement P, Menown I, Mienaber CA, Rehders TC, Frey MJ, Van der Wieken R, Andresen D, Scherer J, Anderson K, Van de Werf F, Braunwald E, for the TIMI 14 Investigators. Combination reperfusion therapy with abciximab and reduced dose reteplase: results from TIMI 14. <i>Eur Heart J</i> 2000;21:1944-53.
12.	Morrow DA, Antman EM, Tanasijevec M, Rifai N, de Lemos JA, McCabe CH, Cannon CP, Braunwald E. Cardiac troponin I for stratification of early outcomes and the efficacy of enoxaparin in unstable angina: a TIMI 11B substudy. <i>J Am Coll Cardiol</i> 2000; 36:1812-7.
13.	de Lemos JA, Antman EM, Giugliano RP, Morrow DA, McCabe CH, Cutler SS, Charlesworth A, Schröder R, Braunwald E, for the InTIME-II Investigators. Comparison of a 60- vs 90-minute determination of ST-segment resolution after thrombolytic therapy for acute myocardial infarction. <i>Am J Cardiol</i> 2000; 86:1235-7.
14.	de Lemos JA, Gibson CM, Antman EM, Murphy SA, Schuhwerk, KC, Schweiger M, Coussement P, Van de Werf F, Braunwald E, for the TIMI 14 Investigators. Abciximab and Early Adjunctive Percutaneous Coronary Intervention are Associated With Improved ST-segment Resolution After Thrombolysis: observations from the TIMI 14 trial. <i>Am Heart J</i> 2001;141:592-8.
15.	Gibson CM, Kirtane AJ, Murphy SA, Marble SJ, de Lemos JA, Antman EM, Braunwald E for the TIMI Study Group. Impact of contrast agent type (ionic vs nonionic) used for coronary angiography on angiographic, electrocardiographic, and clinical outcomes following thrombolytic administration in acute MI. <i>Catheter Cardiovasc Interv</i> 2001;53(1):6-11.
16.	Gibson CM, de Lemos JA, Murphy SA, Marble SJ, McCabe CH, Cannon CP, Antman EM, Braunwald E. Combination therapy with abciximab reduces thrombus burden in acute MI: a TIMI 14 substudy. <i>Circulation</i> 2001;103:2550-4.
17.	Srinivas VS, Cannon CP, Gibson CM, Antman EM, Greenberg MA, Tanasijevec MJ, Murphy S, de Lemos JA, Sokol S, Braunwald E, Mueller HS. Myoglobin levels at 12 hours identify patients at low risk for 30-day mortality after thrombolysis in acute myocardial infarction: a Thrombolysis in Myocardial Infarction 10B substudy. <i>Am Heart J</i> 2001; 141:29-36.
18.	de Lemos JA, Morrow DA, Gibson CM, Murphy SA, Rifai N, Tanasijevec M, Giugliano RP, Schuhwerk KC, McCabe CH, Cannon CP, Antman EM, Braunwald E, for the TIMI 14 Investigators. Early noninvasive detection of failed epicardial reperfusion after fibrinolytic therapy. <i>Am J Cardiol</i> 2001 88:353-8.
19.	Morrow DA, Antman EM, Giugliano RP, Parsons L, de Lemos JA, McCabe CH, Barron HV, Braunwald E. Application of the TIMI Risk Score for ST Elevation Myocardial Infarction for mortality prediction in the National Registry of Myocardial Infarction. <i>JAMA</i> 2001; 286:1356-9.
20.	de Lemos JA, Morrow DA, Bentley JH, Omland T, Sabatine MS, McCabe CH, Hall C, Cannon CP, Braunwald E. The prognostic value of B-type natriuretic peptide in patients with acute coronary syndromes. <i>N Engl J Med</i> 2001; 345:1014-1021.
21.	Morrow DA, Antman EM, Giugliano RP, Charlesworth A, Cairns R, Murphy SA, de Lemos JA, McCabe CH, Braunwald E. A simple risk index for rapid initial triage of patients with ST elevation MI: An InTIME II substudy. <i>Lancet</i> 2001; 358:1571-5.
22.	Omland T, de Lemos JA, Morrow DA, Antman EM, Cannon CP, Hall C, Braunwald E. Prognostic value of N-terminal Pro-Atrial and Pro-Brain Natriuretic Peptide in patients with acute coronary syndromes: A TIMI 11B substudy. <i>Am J Cardiol</i> 2002; 89:463-5.
23.	Sabatine MS, Morrow DA, de Lemos JA, Gibson CM, Murphy SA, McCabe CH, Antman EM, Cannon CP, Braunwald E. A Multimarker Approach to Risk Stratification in Non-ST Elevation

	Acute Coronary Syndromes: Simultaneous Assessment of Troponin I, C-Reactive Protein, and B-type Natriuretic Peptide. <i>Circulation</i> 2002 105:1760-63
24.	Antman EM, Cooper HA, Gibson CM, de Lemos JA, McCabe CH, Giugliano RP, Coussement P, Murphy S, Scherer J, Anderson K, Van de Werf F, Braunwald E, for the Thrombolysis in Myocardial Infarction (TIMI) 14 Investigators. Determinants of improvement in epicardial flow and myocardial perfusion for ST elevation myocardial infarction: insights from TIMI 14 and InTIME-II. <i>Eur Heart J</i> 2002; 23:928-33.
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	Setting of Primary Percutaneous Coronary Intervention for ST Elevation Myocardial Infarction. <i>Am J Cardiol</i> 2004; 94:1288-89.
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Case Reports

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