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## CURRICULUM VITAE

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Portland, Oregon 97239  
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### Education

Medical School: Cornell University, New York, NY; M.D.,  
May 1989

College: Yale University, New Haven, CT; B.A., May  
1985

High School: J.W. Nixon High School, Laredo, Tx;  
Graduated 1981

### Postdoctoral Training

Fellowship  
(1992-96) Cardiovascular Medicine and Interventional  
Cardiology  
Massachusetts General Hospital, Boston, MA

Residency  
(1991-92) Internal Medicine  
Massachusetts General Hospital, Boston, MA

Internship  
(1989-90) Internal Medicine  
Massachusetts General Hospital, Boston, MA

### Academic Appointments

9/17 - present Head, Division of Cardiology, Dept of Medicine  
Oregon Health & Science University

7/16 – 9/17 Director, Interventional Cardiology Fellowship  
Oregon Health & Science University

9/11 – present Clinical Professor of Medicine  
Oregon Health & Science University

7/07 – 9/11	Associate Professor of Medicine Oregon Health & Science University
1/06 – present	Associate Chief of Clinical Cardiology Oregon Health & Science University
1/07-2010	Director, Cardiac Catheterization Laboratories Oregon Health & Science University
1/06-6/07	Adjunct Associate Professor of Medicine Oregon Health & Science University
2005	Audre and Bernard Rapoport Distinguished Professorship in Cardiovascular Research, UT Southwestern Medical Center
7/02 – 12/05	Associate Professor of Medicine UT Southwestern Medical Center
7/99 – 12/05	Director Cardiac Catheterization Laboratories UT Southwestern Medical Center
7/96 – 6/99	Associate Director Parkland Cardiac Catheterization Laboratory
7/96 – 7/02	Assistant Professor of Medicine, UT Southwestern Medical Center
<b>Licenses</b>	Oregon, 2006-present Washington, 2007-present Texas, 1996-present Massachusetts, 1992-1996
<b>Certifications</b>	Diplomat, American Board of Internal Medicine Diplomat, American Board of Internal Medicine, Cardiovascular Disease Diplomat, American Board of Internal Medicine, Interventional Cardiology
<b>Honors</b>	Henry J. Kaiser Award, 1989 David Drusen Award, 1989 Bland Cardiology Award 1993 Best Doctors in America 2001-2006, 2013-2015 Distinguished Physician Award, Parkland Hospital 2002

Distinguished Service Award 2003, AHA Texas  
Best Cardiologists in Dallas, 2005  
Best Doctors, 2005-2006, 2012  
Pillar of Excellence, Oregon Health & Science University,  
2009  
Best Cardiologist, Portland Monthly 2007-2011, 2013-2016  
Best Cardiologist, US News and World Report, 2011-2015  
Best Cardiologist, Castle Connolly, 2011-2016  
Professional Staff Chair's Award for Outstanding  
Contributions to Professionalism at OHSU, 2012  
American Heart Association Appreciation Award, 2012  
OHSU Golden Rose Award, 2013  
Knight Cardiovascular Institute Citizenship Award, 2013  
American Heart Association Award, Portland, 2014  
American Heart Association Western Affiliate Award,  
President, 2014 Gold Board Award  
Professional Board Award, Outstanding Contribution to  
Development of Interdisciplinary Teams, 2014

**Research (Funded)**

Co-Investigator, Ischemia Trial  
Co-Investigator Coapt Trial  
Primary Investigator, Berlex AGT Study Multicenter Study  
to Evaluate Ad5FGF-4 Patients with Stable Angina  
Primary Investigator, OPUS-TIMI 16  
Primary Investigator, TACTICS TIMI-18  
Primary Investigator, Occluded Artery Trial ( OAT )  
Primary Investigator, Shock Trial  
Co-Investigator, TARGET Trial

**Research (Unfunded)**

Effect of Hypoxemia on Coronary Vasomotor Response  
Pacing Ischemia Protocol  
Volume Loading in the Elderly

**Committee Appointments**

**National:**

SCAI Quality Interventional Council, Committee Chairman 2016-2019

AHA Scientific and Clinical Education Lifelong Learning Committee Member  
2016-2019

NCDR CathPCI Registry Steering Committee, 2016-present

ACC/AHA/HRS Atrial Fibrillation Guidelines Writing Committee, Taskforce Representative Liaison, 2016-2020

ACC DAPT Work Group 2016-present

ACC/AHA Taskforce on Clinical Practice Guidelines 2015-2018

Chair, NHLBI Special Emphasis Panel 2016: Active MRI Transseptal Needle

American Stroke Association Cryptogenic Stroke Initiative Advisory Committee 2015-present

AHA Acute Cardiac Care and General Cardiology Committee 2012-2016

AHA Acute Care Council Writing Committee Member on Novel Anticoagulants

Multisociety (ACC/AHA/SCAI/STS) Valve Credentialing Writing Committee 2013-2014

SCAI Quality Interventional Council, Committee Chair of Writing Committee on Quality Standards for Interventional Fellow Training 2015

ACC Scientific Interventional Council, Sudden Cardiac Death Writing Committee 2014-2015

ACC Scientific Intervention Council, Chair of the Structural Heart Subcommittee 2014-present

ACC/AHA/HRS Atrial Fibrillation Guidelines Writing Committee, 2012-16

FDA Cardiac Devices Panel, Special Government Employee, 2011-2015

ACC Scientific Interventional Council, 2012-2018

ACC Scientific Interventional Council Publication Committee, 2014-present

SCAI Quality Interventional Council, 2013-present

SCAI Advocacy Council, 2013-present

ACCF/AHA Guideline for Coronary Artery Bypass Graft Surgery (CABG) 2010-2014

NHLBI Special Emphasis Panel, Partnership Programs to Reduce Cardiovascular Disparities, 2004

ACC Task Force on Clinical Data Standards 2001-3

**Local/Regional:**

American Heart Association Western Affiliate Board Officer, Secretary 2015-2017

American Heart Association Western Affiliate Board Member, 2014-2017

American Heart Association Western Affiliate Nominating Committee, 2014-2017

Astoria Womens' Health Research Advisory Committee 2012-13

President, AHA Portland/Vancouver Chapter, 2011-2014

Chairman, American Heart Association Community Committee, 2008-2010

American Heart Association: Portland & SW Washington Board Division, 2006-2015

Parkland Peer Review Organization: 2000-2005

Six Year Clinical Planning Committee, UT Southwestern Medical Center 2001 and 2003

Vice President, Board of Directors, American Heart Association, Dallas Division 2005

American Heart Association Dallas Affiliate Board Member

Chairman, Hispanic Outreach Task Force, American Heart Association, Dallas Division

**OHSU:**

Knight Cardiovascular Ischemic Quality Committee, June 2016-present

Knight Cardiovascular Steering Committee, 2012-present

OHSU Search Committee, Pediatric Cardiology Division Head 2014

Knight Cardiovascular ICU Steering Committee 2013-present

OHSU Out of Hospital Sudden Cardiac Death Taskforce 2014

Medicine Executive Committee 2013-present

Clinical Enterprise Strategic Advisory Board

OHSU Chest Pain Reaccreditation Committee, Medical Director 2012-13

OHSU Faculty Practice Plan Board Member 2011-13

OHSU Faculty Practice Plan Management Board Member 2011-13

Informatics Executive Committee, Oregon Health & Science University, 2008-2010

School of Medicine Faculty Council, Oregon Health & Science University, 2008-12

Board of Directors, Oregon Health & Science University Medical Group, 2007-8

Clinical Resource Management Committee, Oregon Health & Science University, 2007-present

Integration Task Force: Communications Committee, Oregon Health & Science University, 2007

Service Excellence Employer of Choice Team, Oregon Health & Science University, 2007

Cardiac Advisory Board, Oregon Health & Science University, 2006-10

Cardiology Best Practices, Oregon Health & Science University, 2006-present

School of Medicine Quality Council, Oregon Health & Science University, 2006-present

### **FDA Invited Circulatory Device Panels**

Cardiomems Champion Heart Failure Monitoring System 2011

Classification and Regulation of Non-roller Type Cardiopulmonary Bypass Blood Pumps 2012

Classification of Intra-Aortic Balloon Pump Devices 2012

Classification of External Counter-Pulsating Devices 2012

Heartware Ventricular Assist System 2012

Classification of External Cardiac Compressor Devices 2013

Classification of Membrane Lung for Long-Term Pulmonary Support Systems in Children 2013

Cardiomems Champion Heart Failure Monitoring System 2013

Boston Scientific Watchman Device 2013

RESQCPR System 2014

Classification of Membrane Lung for Long-Term Pulmonary Support Systems in Adults 2014

Lutonix Drug Coated Balloon PTA Catheter 2014

Boston Scientific Watchman Device 2014

More than Minimal Manipulated Prosthetic Heart Valves 2014

Leadless Pacemaker Devices 2016

AngelMed Guardian System 2016

Sentinel Cerebral Protection System 2017

### **National Organizations**

Association University Cardiologists: 2016-present

### **Peer Reviewer**

2013 ACC/AATS/SCAI/STS Transcatheter Therapies for Mitral Regurgitation

2014 AHA/ACC Guideline for the Management of Patients with Acute Coronary Syndrome

2014 ACC/AHA Statement on Cost/Value Methodology in Clinical Practice Guidelines and Performance Measures

2014 AHA/SCAI 2014 Health Policy Statement on Structured Reporting for the Cardiac Catheterization Laboratory

2015 ACC/HRS/SCAI Left Atrial Appendage Occlusion Device Societal Overview

ACC/AHA Task Force Content Reviewer for 2015 ACC/AHA/SCAI Focused Update on Primary Percutaneous Coronary Intervention for Patients With ST-Elevation Myocardial Infarction: An Update of the 2011 ACCF/AHA/SCAI Guideline for Percutaneous Coronary Intervention and the 2013 ACCF/AHA Guideline for the Management of ST-Elevation Myocardial Infarction

ACC/AHA Task Force Lead Reviewer for 2016 ACC/AHA Guideline Focused Update on Duration of Dual Antiplatelet Therapy in Patients with Coronary artery Disease

ACC/AHA Task Force Lead Reviewer for 2016 ACC/AHA Syncope Guidelines

ACC/AHA Task Force Content Reviewer for 2016 ACC/AHA/HFSA Focused Update on New Pharmacological Therapy for Heart Failure: An Update of the 2013 ACCF/AHA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines and the Heart Failure Society of America

ACC/AHA 2017 Hypertension Guideline and Evidence Review Report Peer Reviewer

### **Manuscript Review/Editorial Board**

Circulation, Editorial Board, 2016-present

Catheterization Cardiovascular Interventions Associate Editor, 2016-present

Catheterization Cardiovascular Interventions Editorial Board, 2012-present

American Journal of Cardiology, Ad-hoc reviewer

ACC Scientific Sessions Abstract reviewer

Cardiology in Review, Clinical Case Editor for Percutaneous Coronary Intervention: 2000

Cardiology in Review, Ad-hoc reviewer

Circulation: Cardiovascular Interventions, Ad-hoc reviewer

JACC Imaging, Ad-hoc reviewer

JACC Intervention, Ad-hoc reviewer

Coronary Artery Disease, Ad-hoc reviewer



## Publications

1. Nicholson JP, Resnick LM, **Cigarroa J**, Marion D, Vaughan ED, Laragh JH. The pressor effect of sodium-volume expansion is calcium mediated. *American Journal of Hypertension* 1991; 4(11):904-908.
2. **Cigarroa JE**, Isselbacher EM, DeSanctis RS, Eagle KA. Diagnostic imaging in the evaluation of suspected aortic dissection-old standards and new directions. *N Engl J Med* 1993;328:35-43.
3. Isselbacher EM, **Cigarroa JE**, Eagle KA. Cardiac tamponade complicating proximal aortic dissection. Is pericardiocentesis harmful? *Circulation* 1994; 90(5):2375-2378.
4. Lange RA, **Cigarroa JE**, Hillis LD. Thrombolysis or primary PTCA for acute myocardial infarction. *ACC Educational Highlights* 1997; 12:1-4(spring).
5. Pitts WR, **Cigarroa JE**, Lange RA, Hillis LD. The "open artery hypothesis" in survivors of myocardial infarction. *Clinical Cardiology* 1997; 20:522-524.
6. Gold HK, Garabedian HD, Dinsmore RE, Guerrero LJ, **Cigarroa JE**, Palacios IP, Leinbach RC. Restoration of coronary flow in myocardial infarction by intravenous chimeric 7e3 antibody without exogenous plasminogen activators: Observations in animal and man. *Circulation* 1997;95(8): 1755-1759
7. Pitts, Lange RA, **Cigarroa JE**, Hillis LD. Preoperative left ventricular peak systolic pressure/end-systolic volume ratio and functional status following valve surgery in patients with mitral regurgitation and enlarged end-systolic volumes. *American Journal of Cardiology* 1997; 79:1493-1497.
8. Pitts WR, **Cigarroa JE**, Lange RA, Hillis LD. Cocaine-induced myocardial ischemia and infarction: Pathophysiology, recognition, and management. *Progress in Cardiovascular Diseases* 1997; 40:65-76.
9. Pitts WR, Vongpatanasin W, **Cigarroa JE**, Hillis LD, Lange RA. Effects of intracoronary infusion of cocaine on left ventricular systolic and diastolic function in humans. *Circulation* 1998; 97(13):1270-1273.
10. Pitts WR, Lange RA, **Cigarroa JE**, Hillis LD. Repeat coronary angiography in patients with chest pain and previously normal coronary angiogram. *American Journal of Cardiology* 1997; 80:1086-1087.
11. Pitts WR, **Cigarroa JE**, Lange RA, Hillis LD. The "Open Artery Hypothesis" in survivors of myocardial infarction. *Clinical Cardiology*. 1997; 20: 522-524.

12. Pitts Wr, Hillis LD, Lange RA, **Cigarroa JE**. Coronary anatomy in patients with left ventricular systolic dysfunction without chest pain or previous myocardial infarction. *American Journal of Cardiology* 1998; 82: 1530-1531.
13. Hillis LD, **Cigarroa JE**, Lange RA. Infarct artery patency and survival following myocardial infarction. *Transactions of the American Clinical and Climatological Association* 1999; 110:93-104.
14. Pitts WR, Lange RA, **Cigarroa JE**, Hillis LD. Predictive value of prominent right atrial v waves in assessing the presence and severity of tricuspid regurgitation. *American Journal of Cardiology* 1999; 83(4): 617-618.
15. Hillis LD. **Cigarroa JE**, Lange RA. Late Revascularization reduces mortality in survivors of myocardial infarction. *Cardiology in Review* 1999; 7:144-148.
16. Meyes CE, **Cigarroa JE**, Lange RA, Hillis LD. Percutaneous mitral balloon valvuloplasty. *Clinical Cardiology* 1999; 22:501-503.
17. Saland KE, **Cigarroa JE**, Lange RA, Hillis LD. Rotational Atherectomy. *Cardiology in Review* 2000; 8:174-179.
18. Hochman JS, Sleeper LA, Webb JG, Sanborn TA, White HD, Talley JD, Buller CE, Jacobs AK, Slater JN, Col J, McKinaly SM, LeJemtel TH, for the SHOCK Investigators. Early revascularization in acute myocardial infarction complicated by cardiogenic shock. *New England Journal of Medicine* 1999; 341:625-634.
19. Shohet RV, Vega GL, Anwar A, **Cigarroa JE**, et al. Hepatic lipase promoter polymorphism in men with coronary artery disease: A frequency and effects on hepatic lipase activity and plasma HDL-C concentrations. *Circulation* 1999; 19 (8): 1975-1978.
20. Rapp AH, Hillis LD, Lange RA, **Cigarroa JE**. Prevalence of coronary artery disease in patients with aortic stenosis with and without angina. *American Journal of Cardiology* 2001;87, 1216-1217.
21. Rapp AH, Lange RA, **Cigarroa JE**, Keeley EK, Hillis LD. Relationship of pulmonary arterial diastolic and mean pulmonary capillary wedge pressure in patients with and without pulmonary hypertension *American Journal of Cardiology* 2001;88, 823-824.
22. Valentine RJ, Rosen SF, **Cigarroa JE**, Jackson MR, Modrall JG, Clagett GP. The clinical course of new-onset atrial fibrillation after elective aortic operations. *J Am Coll Surg.* 2001 Nov;193(5):499-504.
23. Rapp AH, **Cigarroa JE**, Lange RA, Keeley EC, Hillis LD. Hemodynamic characteristics and procedural outcome of patients with mitral stenosis and

- spontaneously depressed cardiac output. *American Journal of Cardiology* 2001;88, 1212-1213.
24. Keeley EC, **Cigarroa JE**. The need for a prospective, randomized trial assessing the role of early coronary intervention following pharmacologic therapy for acute myocardial infarction. *American Journal of Cardiology* 2001;88, 882-883.
  25. American College of Cardiology key data elements and definitions for measuring the clinical management and outcomes of patients with acute coronary syndromes. A report of the American College of Cardiology Task Force on Clinical Data Standards (Acute Coronary Syndromes Writing Committee). *Journal of American College of Cardiology*. 2001 Dec;38(7):2114-30.
  26. Saland KE, Hillis LD, Lange RA, **Cigarroa JE**. Influence of cocaine, morphine sulfate, or their combination on epicardial coronary arterial dimensions in humans. *American Journal of Cardiology* 2002;90, 810-811.
  27. Keeley EC, **Cigarroa JE**. Facilitated primary percutaneous transluminal coronary angioplasty for acute ST segment elevation myocardial infarction: rationale for reuniting pharmacologic and mechanical revascularization strategies. *Cardiology Review*. 2003 Jan-Feb;11(1):13-20.
  28. Lange RA, **Cigarroa JE**, Hillis LD. Theodore E. Woodward award: cardiovascular complications of cocaine abuse. *Transactions of the American Clinical and Climatological Association*. 2004; 115:99-111; discussion 112-4.
  29. Nguyen K, **Cigarroa JE**, Lange RA, Hillis LD, Keeley EC. Presence and extent of angiographic coronary narrowing in patients with left bundle branch block. *American Journal of Cardiology* 2004;93, 1426-1427.
  30. Addo TA, Keeley EC, **Cigarroa JE**, Lange RA, de Lemos JA, Dobbins RL, McGuire Effect of glucose-insulin-potassium infusion on plasma free fatty acid concentrations in patients undergoing primary percutaneous coronary intervention for ST-elevation myocardial infarction. *American Journal of Cardiology*. 2004 Nov 15;94(10):1288-9.
  31. Stauffenberg MT, Lange RA, **Cigarroa JE**, Hillis LD, Hsu RM, Jialal I. Hyperhomocystenemia measured by immunoassay: a valid measure of coronary artery atherosclerosis. *Arch Pathol Lab Med*. 2004 Nov;128(11):1263-6.
  32. Robinson CR, Martin JL, Zhang L, Canham RM, Abdullah SM, **Cigarroa JE**, Hillis LD, Murphy SA, McGuire DK, de Lemos JA, Keeley EC. Infarct-related coronary artery patency and medication use prior to ST-segment elevation myocardial infarction. *American Journal of Cardiology* 2006; 97(1): 7-9.

33. **Cigarroa JE**, Hillis LD. Percutaneous coronary interventions: Guidelines, short and long term results and comparison with coronary artery bypass grafting. *Cardiology Clinics* 2006 May; 24(2):255-63.
34. Abrol R, Trost JC, Nguyen K, **Cigarroa JE**, Murphy SA, McGuire DK, Hillis LD, Keeley EC. Predictors of coronary artery disease in patients with left bundle branch block undergoing coronary angiography. *American Journal of Cardiology*. 2006 Nov 15; 98(10): 1307-10.
35. Parikh SV, Abdullah SM, Keeley EC, **Cigarroa JC**, Addo TA, Warner JJ, Khera A, De Lemos JA, McGuire DK. Effect of glucose-insulin-potassium (GIK) infusion on biomarkers of cardiovascular risk in ST elevation myocardial infarction (STEMI): insight into the failure of GIK. *Diabetes & Vascular Disease Research* 2007 Sep; 4(3), 222-225.
36. Parikh SV, Jacobi JA, Chu E, Addo TA, Warner JJ, Delaney KA, McGuire DK, deLemons JA, **Cigarroa JE**, Murphy SA, Keeley EC. Treatment delay in patients undergoing primary percutaneous coronary intervention for ST-elevation myocardial infarction: a key process analysis of patient and program factors. *American Heart Journal*. 2008 Feb; 155(2): 290-7.
37. Arbab-Zadeh A, Levine BD, Trost JC, Lange RA, Keeley EC, Hillis LD, **Cigarroa JE**. The effect of acute hypoxemia on coronary arterial dimensions in patients with coronary artery disease. *Cardiology*. 2009; 113(2): 149-54.
38. A randomized two-by-two comparison of high-dose bolus tirofiban versus abciximab and unfractionated heparin versus bivalirudin during percutaneous coronary revascularization and stent placement: the tirofiban evaluation of novel dosing versus abciximab with clopidogrel and inhibition of thrombin (TENACITY) study trial. Moliterno DJ; TENACITY Steering Committee and Investigators. *Catheter Cardiovascular Interv*. 2011 Jun 1;77(7); 1001-9.
39. Myocardial ischemia induced by rapid atrial pacing causes troponin T release detectable by a highly sensitive assay: insights from a coronary sinus sampling study. Turer AT. Addo TA. Martin JL. Sabatine MS. Lewis GD. Gerszten RE. Keeley EC. **Cigarroa JE**. Lange RA. Hillis LD. de Lemos JA. *Journal of the American College of Cardiology*. 57(24):2398-405, 2011 Jun 14.
40. 2011 ACCF/AHA guideline for coronary artery bypass graft surgery: executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. Hillis LD. Smith PK. Anderson JL. Bittl JA. Bridges CR. Byrne JG. **Cigarroa JE**. DiSesa VJ. Hiratzka LF. Hutter AM Jr. Jessen ME. Keeley EC. Lahey SJ. Lange RA. London MJ. Mack MJ. Patel MR. Puskas JD. Sabik JF. Selnes O. Shahian DM. Trost JC. Winniford MD. Jacobs AK. Anderson JL. Albert N. Creager MA. Ettinger SM. Guyton RA. Halperin JL. Hochman JS. Kushner FG.

- Ohman EM. Stevenson W. Yancy CW. American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Journal of Thoracic & Cardiovascular Surgery*. 143(1):4-34, 2012 Jan
41. 2011 ACCF/AHA Guideline for Coronary Artery Bypass Graft Surgery: executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. Hillis LD. Smith PK. Anderson JL. Bittl JA. Bridges CR. Byrne JG. **Cigarroa JE**. Disesa VJ. Hiratzka LF. Hutter AM Jr. Jessen ME. Keeley EC. Lahey SJ. Lange RA. London MJ. Mack MJ. Patel MR. Puskas JD. Sabik JF. Selnes O. Shahian DM. Trost JC. Winniford MD. *Circulation*. 124(23):2610-42, 2011 Dec 6.
  42. 2011 ACCF/AHA Guideline for Coronary Artery Bypass Graft Surgery. A report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. Developed in collaboration with the American Association for Thoracic Surgery, Society of Cardiovascular Anesthesiologists, and Society of Thoracic Surgeons. Hillis LD. Smith PK. Anderson JL. Bittl JA. Bridges CR. Byrne JG. **Cigarroa JE**. Disesa VJ. Hiratzka LF. Hutter AM Jr. Jessen ME. Keeley EC. Lahey SJ. Lange RA. London MJ. Mack MJ. Patel MR. Puskas JD. Sabik JF. Selnes O. Shahian DM. Trost JC. Winniford MD. American College of Cardiology Foundation. American Heart Association Task Force on Practice Guidelines. American Association for Thoracic Surgery. Society of Cardiovascular Anesthesiologists. Society of Thoracic Surgeons. *Journal of the American College of Cardiology*. 58(24):e123-210, 2011 Dec 6.
  43. Mitral Regurgitation in Acute ST Segment Myocardial Infarction: It still matters. **Cigarroa JE**, Kaul S. *Catheterization & Cardiovascular Interventions*. 80(5):787—88. 2012 Nov.
  44. Back to the Future? The quest for optimal interventional strategy in saphenous vein graft interventions. Gupta, S. **Cigarroa JE**. *Catheterization & Cardiovascular Interventions*. 80(1):118-19. 2012 Dec.
  45. In Stent Restenosis Remain a Clinically Relevant Problem. Tibayan, Y. **Cigarroa JE**. *Catheterization & Cardiovascular Interventions*. 81(2):266-7, 2013 Feb.
  46. Inaccuracy of Estimated Resting Oxygen Uptake in the Clinical Setting. Narang N, Thibodeau JT, Levine BD, Gore MO, Ayers CR, Lange RA, **Cigarroa JE**, Turer AT, de Lemos JA, McGuire DK. *Circulation* 2014;129(2):203-210.
  47. “As the Kidney Goes, So Goes the Heart...”. Harkawal H, **Cigarroa JE**. *Catheterization & Cardiovascular Interventions*. November 15 2013

48. Bleeding, A Call to Action. Gupta S, **Cigarroa JE**. Catheterization & Cardiovascular Interventions. Catheterization & Cardiovascular Interventions. 2014 Feb 1;83(2):190-1.
49. The Learning Curve in New Structural Intervention. Henrikson C, **Cigarroa JE**. Catheterization & Interventions. 2014 Mar 1;83(4):647-8.
50. 2014 AHA/ACC/HRS Guideline for the Management of Patients with Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. January CT, Wann LS, Alpert JS, Calkins H, Cleveland JC Jr, **Cigarroa JE**, Conti JB, Ellinor PT, Ezekowitz MD, Field ME, Murray KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW. J Am Coll Cardiol. 2014 March 26. Pii: S0735-1097(14)01740-9. [Epub ahead of print]
51. 2014 AHA/ACC/HRS Guideline for the Management of Patients with Atrial Fibrillation: Executive Summary: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. January CT, Wann LS, Alpert JS, Calkins H, Cleveland JC Jr, **Cigarroa JE**, Conti JB, Ellinor PT, Ezekowitz MD, Field ME, Murray KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW. J Am Coll Cardiol. 2014 March 26. Pii: S0735-1097(14)01739-2.
52. 2014 AHA/ACC/HRS Guideline for the Management of Patients with Atrial Fibrillation: Executive Summary: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. January CT, Wann LS, Alpert JS, Calkins H, Cleveland JC Jr, **Cigarroa JE**, Conti JB, Ellinor PT, Ezekowitz MD, Field ME, Murray KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW. Circulation. 2014 Mar 28. [Epub ahead of print]
53. 2014 AHA/ACC/HRS Guideline for the Management of Patients with Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. January CT, Wann LS, Alpert JS, Calkins H, Cleveland JC Jr, **Cigarroa JE**, Conti JB, Ellinor PT, Ezekowitz MD, Field ME, Murray KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW. Circulation. 2014 Mar 28.
54. Left Atrial Appendage Closure in the Warfarin-Intolerant Patient. Henrikson C, **Cigarroa JE**. Catheterization & Cardiovascular Interventions. Apr 1 2014 83:803-804.
55. "Coronary artery disease: All is Not Always What it Seems". Tibayan Y, **Cigarroa JE**. Coronary artery Disease. 2014 Jun; 25(4):279-80.
56. SCAI/AATS/ACC/STS Operator & Institutional Requirements for Transcatheter Valve Repair and Replacement, Part II-Mitral Valve. Tommaso CL, **Cigarroa JE**, Fullerton D, Feldman T, Aldea GS, Bach EA, Bavaria J, Bolman RM 3<sup>rd</sup>, Cameron DE, Dean LS, Hijazi ZM, Horlick E, Mack MJ, Miller DC, Moon MR, Mukherjee D, Ruiz CE, Trento A. Catheter Cardiovasc Interv. 2014 May 14 [Epub ahead of print].

57. SCAI/AATS/ACC/STS Operator & Institutional Requirements for Transcatheter Valve Repair and Replacement, Part II-Mitral Valve. Tommaso CL, **Cigarroa JE**, Fullerton D, Feldman T, Aldea GS, Bach EA, Bavaria J, Bolman RM 3<sup>rd</sup>, Cameron DE, Dean LS, Hijazi ZM, Horlick E, Mack MJ, Miller DC, Moon MR, Mukherjee D, Ruiz CE, Trento A. JACC. 2014 May 14 [Epub ahead of print].
58. SCAI/AATS/ACC/STS Operator & Institutional Requirements for Transcatheter Valve Repair and Replacement, Part II-Mitral Valve. Tommaso CL, Fullerton DA, Feldman T, Dean LS, Hijazi ZM, Horlick E, Weiner BH, Zahn E, **Cigarroa JE**, Ruiz CE, Bavaria J, Mack MJ, Cameron DE, Bolman RM 3<sup>rd</sup>, Miller DC, Moon MR, Mukherjee D, Trento A, Aldea GS, Bacha EA. J Thorac Cardiovasc Surg. 2014 Jun 12. pii: S0022-5223(14)00745-4. doi: 10.1016/j.jtcvs.2014.06.014. [Epub ahead of print] No abstract available. PMID:24996693
59. SCAI/AATS/ACC/STS Operator & Institutional Requirements for Transcatheter Valve Repair and Replacement, Part II-Mitral Valve. Tommaso CL, Fullerton DA, Feldman T, Dean LS, Hijazi ZM, Horlick E, Weiner BH, Zahn E, **Cigarroa JE**, Ruiz CE, Bavaria J, Mack MJ, Cameron DE, Bolman RM 3<sup>rd</sup>, Miller DC, Moon MR, Mukherjee D, Trento A, Aldea GS, Bacha EA. Ann Thorac Surg. 2014 May 14. pii: S0003-4975(14)01021-2. doi: 10.1016/j.athoracsur.2014.05.002. [Epub ahead of print] No abstract available. PMID:24835557
60. Saphenous Vein Graft Interventions: Can Adenosine Make it Better. Hundal H, **Cigarroa JE**. Catheterization & Cardiovascular Interventions. 2014 Jun 1;83(7):1055-56.
61. Coronary CT Angiography-A Rosetta Stone for Understanding and Treating Bifurcation Lesions? Shapiro, M, **Cigarroa JE**. Catheterization & Cardiovascular Interventions. Catheter Cardiovascular Interventions. 2014 Sept 1;84(3):452-4.
62. A Stitch in Time. Gupta S, **Cigarroa JE**. Catheterization & Cardiovascular Interventions. 2014 Nov 1;84(5):772-3.
63. Accountable Care Organizations: Ensuring Focus on Cardiovascular Health. Patel, K, **Cigarroa JE**, Nadel J, Cohen J, Stecker E. Circulation. 2015 Aug 18;132(7):603-10.
64. Perioperative Aspirin Management after POISE 2-Some Answers but Questions Remain. Gerstein NS, Michael CC, **Cigarroa JE**, Schulman PM. Anesthesia & Analgesia. 2015 March 120(3):570-75.
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