

January 12, 2011

MARIO J. GARCIA, MD, FACC
Chief Division of Cardiology
Montefiore Medical Center
Pauline Levitt Endowed Chair in Medicine
Albert Einstein College of Medicine
Co-Director, Montefiore-Einstein Heart Center
111 East 210th Street
Bronx, NY 10467-2490

Education:

7/1979-12/1981 Bachelor in Premedical Sciences. Universidad Nacional Pedro
Henriquez Ureña.
Santo Domingo, Dominican Republic

1/1982-11/1986 Doctorate in Medicine. Universidad Nacional Pedro Henriquez Ureña.
Santo Domingo, Dominican Republic.

Post-Graduate training:

7/1986-6/1987 Physician Assistant, AIDS national research program.
Laboratorio Nacional Dr. Defilló.
Santo Domingo, Dominican Republic.

7/1987-6/1990 *Resident, Department of Internal Medicine.*
St. Vincent's Medical Center. Bridgeport, CT.
Program Director: Michael Friedland, M.D.

7/1990-6/1992 *Fellow, Division of Cardiology.*
St. Vincent's Medical Center. Bridgeport, CT.
Program Director: Edward Kosinski, M.D.

7/1992-6/1993 *Fellow, Division of Cardiology- Cardiac Nuclear Imaging.*
Massachusetts General Hospital. Boston, MA.
Program Director: Valentin Fuster, M.D.
Spaulding Rehabilitation Hospital
Program Director: Paul J. LaRaia, M.D.
Program Co-director: Charles Boucher, M.D.
Research Fellow in Medicine, Harvard Medical School

7/1993-6/1994 *Fellow, Advanced Cardiac Imaging.*
Cleveland Clinic Foundation. Cleveland, OH.
Program Director: James D. Thomas, M.D.
Director Division of Cardiology: Eric J. Topol, M.D.

Professional employment and Hospital appointments:

- 7/1994-8/1996 *Assistant Professor of Medicine,*
Dartmouth Medical School, Hanover, NH
Staff Cardiologist, Director of Echocardiography,
Department of Veterans Affairs, Medical and Regional Office Center,
White River Junction, VT
Staff Cardiologist,
Dartmouth Hitchcock Medical Center,
Lebanon, NH
- 9/1996-9/2006 *Staff Cardiologist*
Cleveland Clinic Foundation Cleveland, OH
- 3/2000-6/2005 *Director, Echocardiography,* Cleveland Clinic Foundation,
Cleveland, OH
- 3/2005-8/2006 *Director, Cardiovascular Imaging ,* Cleveland Clinic Foundation,
Cleveland, OH
- 2/2006-10/2006 *Professor of Medicine, Cleveland Clinic Lerner College of Medicine of Case Western*
Reserve University, Cleveland, OH
- 10/2006-3/2010 *Staff Cardiologist, Mount Sinai Hospital*
Director of Cardiovascular Imaging
Professor of Medicine and Radiology, Mount Sinai School of Medicine, New York, NY
- 4/2010-present *Chief, Division of Cardiology, Montefiore Medical Center*
Pauline Levitt Endowed Chair in Medicine
Professor of Medicine and Radiology, Albert Einstein College of Medicine, Bronx, NY

Professional Society Membership:

- Member, Board of Directors, American Society of Nuclear Cardiology
Member, Society of Cardiovascular Computed Tomography, Founding member Board of Directors
Member, Board of Directors, Intersocietal Accreditation Council
President Intersocietal Council of Accreditation of Computed Tomography Laboratories
Member, American Society of Echocardiography, past-member, Board of Directors
Fellow, American College of Cardiology
Fellow, American College of Physicians
Member, American Heart Association Circulation Council

Awards and Honors:

- Dean's List: 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986
Valedictorian, Magna Cum Laude, 1986
Facultad Universitaria Dominicana Year Award. 1986
David H. Jacobs Research Award, American Heart Association, Northeast Ohio Affiliate, 1997
Teaching attending of the year 1998 award, Cleveland Clinic Foundation.
Inge Edler Award, Madrid, Spain, 2001
Feigenbaum Award, American Society of Echocardiography, 2004

Other Professional activities:

- Reviewer, American Heart Association, American College of Cardiology, American Society of Echocardiography, American Society of Nuclear Cardiology Scientific Sessions

Reviewer: *Circulation, JAMA, Journal of the American College of Cardiology, American Journal of Cardiology, Journal of the European Society of Cardiology, Heart, Echocardiography, Journal of the European Society of Echocardiography and others*

Associated Editor, American Heart Association on-line

Editor, The Heart.org Imaging section

Editor, The Heart.org in Spanish

Member, Scientific Advisory Board, High Risk Plaque Group

Member, National Board of Medical Examiners-Adult Echocardiography

Research:

SMS00206 7/1/01 - 6/30/04 National Space Biomedical Research Institute (NSBRI) “Diagnostic 3D echocardiography: Development of novel compression, segmentation and registration techniques for manned space flight application” Role: Co-I

SMS00207 7/1/01 - 6/30/04 National Space Biomedical Research Institute (NSBRI) “Echocardiographic assessment of cardiovascular adaptation and countermeasures in microgravity” Role: Co-I

T-7332W 7/2/01 - 7/1/05 National Aeronautics and Space Administration (NASA) “Cardiac atrophy and diastolic dysfunction during and after long duration space flight: Functional consequences for orthostatic intolerance and risk of cardiac arrhythmias.” Role: Co-I

BAA99-1 6/1/02 - 5/31/06 Department of Defense (DOD) “Far Forward Battlefield Telemedicine: Ultrasonic Guidance in Diagnosis and Emergency Therapeutics”. Role: Co-I

American Society of Echocardiography Grant-in-Aid. Echocardiographic guidance of therapy in heart failure. Role: Co-I and Sponsor.

NEO-AHA Grant-in-Aid. Non-invasive evaluation of intraventricular pressure gradients for the assessment of diastolic function. Role: Co-I and Sponsor

Grant-in-aid #NEO-97-225-BGIA. “Effects of Ischemia, Preload and Heart Rate in Myocardial Wall Relaxation Velocities” Role: P-I and Sponsor

NCC9-60 5/15/97 – 5/13/00 National Aeronautics and Space Administration (NASA) “Digital Echocardiography In Manned Space Flight: Remote Diagnosis And Quantitative Analysis” Role: Co-I

NIH #ROI H L56688-01A1 “Quantitative Assessment of Diastolic function in humans.” Role: Co-I

SmithKline Beechan Pharmaceuticals. Effects of 28 Day Oral Administration of BRL-49653-C on Cardiac Function and Morphology Determined using Echocardiography in Rats. Role: Co-I

Evaluation of contractile reserve by dobutamine echocardiography in patients undergoing heart-remodeling surgery. NEO-AHA Role: Co-I and Sponsor

NASA 7/1/04- 6/30/07 “Echocardiographic Assessment of Cardiovascular Adaptation and Countermeasures in Microgravity” Role: Co-I

2008-American Society of Echocardiography Grant-in-Aid. Strain imaging in Acute Myocardial Infarction. Role: Co-I and Sponsor

Invited presentations (prior to 2005 available upon request):

2005

Society of Cardiovascular Atherosclerosis Imaging – *Cardiac CT Initiative Meeting*. Atlanta, GA. January 7 – 8, 2005

Consultant, American Society of Echocardiography. Philadelphia, PA. January 11, 2005.

Invited Speaker, Fifteenth Journées Europeennes de la Societe Francaise de Cardiologie. *Present and Future Role of CT-Scan*. Paris, France January 20 – 22, 2005.

Faculty, Comprehensive Review of Intraoperative Echo; *Clinical Decision Making in the Cardiac Surgery Patient*. Society of Cardiovascular Anesthesiologists. San Diego, CA February 14-19, 2005.

Course Co-Director, University of Pittsburgh Medical Center and The Cleveland Clinic Foundation. *Advanced Cardiac Imaging in the Heart Failure Patient*. Snowmass, Colorado February 20- 23, 2005.

Planning Committee, American Society of Echocardiography. Phoenix, AZ. February 25-27, 2005.

Invited speaker, Turkish Society of Cardiology and Cleveland Clinic Foundation. *Noninvasive Cardiac Imaging: Which Test for Which Patient? Echo, CT, MRI*. Istanbul, Turkey. March 10 – 17, 2005.

Invited speaker, Japanese Circulation Society. Yokohama, Japan. March 18 – 22, 2005.

Faculty, Echo New Orleans 2005. *Methods to Assess and Quantify Diastolic Function; Hypertrophic Cardiomyopathy; Restrictive Cardiomyopathy*. New Orleans, Louisiana. April 8-9, 2005.

Faculty, *Cardiac Ultrasound*. La Plata University, Buenos Aires, Argentina. April 15-17, 2005.

Faculty, *CT Angiography for Cardiologists*. Hilton City Center, Milwaukee, Wisconsin. April 28 – 30, 2005.

Faculty, 7th Annual Echocardiography Conference: *State-of-the-Art 2005*. May 5 – May 6, 2005, New York, New York.

Faculty, 2nd Annual Clinical Cardiology Symposium. *Detection and Treatment of Cardiovascular Disease*. Las Vegas, Nevada. May 13-14, 2005.

Faculty, XIX Reunion Ecocardiografia Madrid. *Update in Cardiac Imaging Symposium*. Hospital Gregorio Maranon. Madrid, Spain. June 1-5, 2005.

Invited Speaker, Echo 2005: American Society of Echocardiography, 16th Annual Scientific Sessions. Boston, Massachusetts June 15-18, 2005.

Faculty, Annual Cardiac Conference (The Cleveland Clinic International Center); Renaissance Jaragua Hotel, Santo Domingo, Dominican Republic. August 3 – 7, 2005.

Faculty, Integrated Cardiovascular Imaging Conference. Fairmont Hotel, San Francisco, California. August 11-13, 2005.

Co-Director, Summit on Cardiovascular CT and Hybrid Systems: Starting a Program. The Cleveland Clinic Foundation. Cleveland, Ohio. September 12-14, 2005.

Speaker, 69th Annual Scientific Meeting, Japanese Circulation Society. *Role of CT in Diagnosis of CAD*. Kyoto, Japan. September 16-18, 2005.

Faculty, *An Intensive Review of Cardiology Symposium*. The Cleveland Clinic Foundation, Cleveland, Ohio. September 18-25, 2005.

Invited Speaker, Ohio Chapter American College of Cardiology 15th Annual Meeting. *Evaluation of the Coronary Arteries by CT*. The Conference Center at Northpoint, Lewis Center, Ohio. September 29, 2005.

Invited Speaker, American Society of Nuclear Cardiology 10th Annual Scientific Session. Integrated Assessment of Right and Left Ventricle Function by Echocardiography. Seattle, Washington. September 30 – October 1, 2005.

Faculty, CCF-ICBA Symposium. *Non-Invasive Evaluation, Coronary Arteries*. Buenos Aires, Argentina. October 6 – 8, 2005.

Faculty, 1st Annual Cardiac Imaging Symposium. *Coronary CT Angiography and Non-Invasive Cardiovascular Imaging in 2005*. University of Western Ontario, London, Ontario. October 14-15, 2005.

Invited Speaker, Beth Israel Medical Center Cardiology Grand Rounds. *CT Angiography How to Incorporate into Clinical Practice*. New York, New York, October 31, 2005.

AHA Scientific Sessions, Dallas, TX. November 11-14, 2005

Faculty, *New Approaches and Procedures in Office-Based Nuclear Cardiology and Cardiac CT*. American Society of Nuclear Cardiology. Washington, DC, December 2-4, 2005.

Invited speaker, *CT Angiography: The Future is Now*. Medical University of Ohio, Toledo, Ohio, December 8, 2005.

Invited speaker, *Cardiac CT*. Grand Rounds, Rush University Medical Center, Chicago, Illinois, December 14, 2005.

2006

Faculty, EuroPCR (Cardiac CT and MRI Summit) 2007
Barcelona, Spain

Faculty, CART (Cardiac CT and MRI Summit) 2007
Barcelona, Spain

Faculty, Korean Circulation Society 2007

Seoul, Korea

Faculty, VEITH Symposium 2007
New York, NY

Faculty, TCT Symposium 2007
Washington, DC

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
University of Indiana, Indianapolis, IN

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
Robert Wood Johnson, Brunswick, NJ

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
University of Virginia, Charlottesville, VA

Invited Speaker, Grand Rounds. Diastolic Heart Failure
New York University Hospital, New York, NY

Invited Speaker, Grand Rounds. CT Coronary Angiography
New York Presbyterian Hospital, New York, NY

Invited Speaker, Cardiology Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Invited Speaker, Internal Medicine Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Invited Speaker, Emergency Medicine Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Faculty, CTA at ISET-2007
Hollywood, FL

Faculty, Cardiology Update-Mayo Clinic-2007
Cancun, Mexico

Faculty, Nuclear Cardiology and Cardiac CT-2007
Cedars-Sinai Medical Center, Los Angeles, CA

Faculty, Cardiac CT
Harbor UCLA Medical Center, Los Angeles, CA

Faculty, Echocardiography NY-2007
New York, NY

Faculty, Curso de Imagenes Cardiacas
Hospital Gregorio Maranon, Madrid, Spain

Faculty, Cardiology at Mohonk

Mohonk, NY

Invited Speaker, Interventional Summit
Mount Sinai Hospital, New York, NY

Faculty, Cardiac CT for the Cardiologists, American Society of Nuclear Cardiology
Chicago, IL

Faculty, Cardiology Update
St. Vincent's Medical Center, Bridgeport, CT

Faculty, Cardiology Update
Fairview Hospital, Fairview, OH

Faculty, Advanced Echocardiography-2007
Newport, CA

Faculty, Clinical Advances in Cardiology
Sanibel Island, FL

Faculty, American Society of Echocardiography Board Review
Atlanta, GA

Faculty, American Society of Echocardiography Scientific Sessions
Seattle, WA

Faculty, Heart Valve Summit
American College of Cardiology, Boston, MA

Faculty, American College of Cardiology Scientific Sessions
New Orleans, LA

Faculty, Congreso Sociedad Argentina de Cardiologia
Buenos Aires, Argentina

Faculty, Puerto Rico ACC Chapter
San Juan, PR

Faculty, Congreso Sociedad Dominicana de Cardiologia
Santo Domingo, Dominican Republic

2007

Faculty, EuroPCR (Cardiac CT and MRI Summit) 2007
Barcelona, Spain

Faculty, CART (Cardiac CT and MRI Summit) 2007
Barcelona, Spain

Faculty, Korean Circulation Society 2007
Seoul, Korea

Faculty, VEITH Symposium 2007

New York, NY

Faculty, TCT Symposium 2007
Washington, DC

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
University of Indiana, Indianapolis, IN

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
Robert Wood Johnson, Brunswick, NJ

Invited Speaker, Grand Rounds. Cardiac Computed Tomography
University of Virginia, Charlottesville, VA

Invited Speaker, Grand Rounds. Diastolic Heart Failure
New York University Hospital, New York, NY

Invited Speaker, Grand Rounds. CT Coronary Angiography
New York Presbyterian Hospital, New York, NY

Invited Speaker, Cardiology Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Invited Speaker, Internal Medicine Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Invited Speaker, Emergency Medicine Grand Rounds. Coronary CT Angiography
Mount Sinai Hospital, New York, NY

Faculty, CTA at ISET-2007
Hollywood, FL

Faculty, Cardiology Update-Mayo Clinic-2007
Cancun, Mexico

Faculty, Nuclear Cardiology and Cardiac CT-2007
Cedars-Sinai Medical Center, Los Angeles, CA

Faculty, Cardiac CT
Harbor UCLA Medical Center, Los Angeles, CA

Faculty, Echocardiography NY-2007
New York, NY

Faculty, Curso de Imagenes Cardiacas
Hospital Gregorio Maranon, Madrid, Spain

Faculty, Cardiology at Mohonk
Mohonk, NY

Invited Speaker, Interventional Summit

Mount Sinai Hospital, New York, NY

Faculty, Cardiac CT for the Cardiologists, American Society of Nuclear Cardiology
Chicago, IL

Faculty, Cardiology Update
St. Vincent's Medical Center, Bridgeport, CT

Faculty, Cardiology Update
Fairview Hospital, Fairview, OH

Faculty, Advanced Echocardiography-2007
Newport, CA

Faculty, Clinical Advances in Cardiology
Sanibel Island, FL

Faculty, American Society of Echocardiography Board Review
Atlanta, GA

Faculty, American Society of Echocardiography Scientific Sessions
Seattle, WA

Faculty, Heart Valve Summit
American College of Cardiology, Boston, MA

Faculty, American College of Cardiology Scientific Sessions
New Orleans, LA

Faculty, Congreso Sociedad Argentina de Cardiologia
Buenos Aires, Argentina

Faculty, Puerto Rico ACC Chapter
San Juan, PR

Faculty, Congreso Sociedad Dominicana de Cardiologia
Santo Domingo, Dominican Republic

2008

Faculty, American College of Cardiology Scientific Sessions
Chicago, IL

Faculty, Nuclear Cardiology and Cardiac CT-2008
Cedars-Sinai Medical Center, Los Angeles, CA

Faculty, World Congress of Cardiology
Buenos Aires, Argentina

Faculty, Echocardiography NY-2008
New York, NY

Faculty, SCCT Scientific Sessions-2008

Orlando, FL

Faculty, Echocardiography Summit
Seoul, Korea

Faculty, New York Cardiac Imaging-2008
New York, NY

Faculty, Cardiac Imaging Symposium
Columbus, OH

Faculty, North Eastern Lipid Association Meeting
New York, NY

Faculty, Echocardiography Sights and Sounds NY-2008
New York, NY

Faculty, Approaches in Nuclear Cardiology and Cardiac CT
Orlando, FL

Invited Speaker, Grand Rounds. CT Coronary Angiography
New York University Hospital, New York, NY

Invited Speaker, Grand Rounds. CT Coronary Angiography
University of Massachusetts, Waltham, MA

Invited Speaker, Grand Rounds. CT Coronary Angiography
University of Maryland, Baltimore, MD

Invited Speaker, Grand Rounds. CT Coronary Angiography
St. Luke's-Roosevelt, New York, NY

Program Director, ASNC CT Board Review-2008
Chicago, IL

Faculty, ECHOSIAC
Cartagena, Colombia

Faculty, Applications of New Technologies, Northwestern University
Chicago, IL

Faculty, CTA at ISET-2008
Hollywood, FL

Faculty, Cardiology Update-Mayo Clinic-2007
Cancun, Mexico

Faculty, Diastology-2008
Daytona, FL

Invited Speaker, Cardiology Grand Rounds. Coronary CT Angiography

Mount Sinai Hospital, New York, NY

Invited Speaker, Interventional Summit
Mount Sinai Hospital, New York, NY

Faculty, Advanced Echocardiography-2008
Newport, CA

Faculty, American College of Echocardiography Board Review
Chicago, IL

Program Co-director, Curso de Imagenes Cardiacas
Madrid, Spain

Invited Speaker, Grand Rounds. Diastolic Heart Failure
St. Luke's-Roosevelt, New York, NY

Faculty, American Society of Echocardiography
Toronto, Canada

Invited Speaker, Grand Rounds. Diastolic Heart Failure
Elmhurst Hospital, Elmhurst, NY

Faculty, Cardiac CT Symposium
Buenos Aires, Argentina

Faculty, CART (Cardiac CT and MRI Summit) 2008
Madrid, Spain

2009

Faculty, American College of Cardiology Scientific Sessions
Orlando, FL

Faculty, Echocardiography NY-2009
New York, NY

Faculty, Nuclear Cardiology and Cardiac CT-2008
Cedars-Sinai Medical Center, Los Angeles, CA

Program Director, ASNC Cardiac CT Board Review
Philadelphia, PA

Invited Speaker, Grand Rounds. Cardiomyopathies
Memorial-Sloan Kettering, New York, NY

Invited Speaker, Grand Rounds. Cardiomyopathies
MD Anderson, Houston, TX

Faculty, Brazilian Congress of Echocardiography and Cardiac Imaging
Fortaleza, Brasil

Faculty, Legacy and Innovation Summit-Cleveland Clinic

Cleveland, OH

Faculty, American Society of Echocardiography
Washington, DC

Program Co-director, Curso de Imagenes Cardiacas
Madrid, Spain

Faculty, Interamerican Society of Cardiology Scientific Sessions
Fajardo, PR

Faculty, West Coast Cardiovascular Symposium
San Francisco, CA

Faculty, Congreso Sociedad Dominicana de Cardiologia
Santo Domingo, Dominican Republic

Faculty, American Society of Nuclear Cardiology
Minneapolis, MN

Faculty, Hartford Hospital Cardiovascular Symposium
Harford, CT

Faculty, New York Echo
New York, NY

Faculty, American Heart Association Scientific Sessions
Orlando, FL

Faculty, CTA Practicum
Charleston, WV

Invited Speaker, Cardiology Grand Rounds, Elmhurst Hospital
Queens, NY

2010 Invited Speaker, Cardiology Grand Rounds, Mount Sinai Hospital
Miami, FL

Faculty, Mayo Clinic Cardiology at Cancun
Cancun, Mexico

Faculty, Congreso Sociedad Dominicana de Cardiologia
Santo Domingo, Dominican Republic

Faculty, American College of Cardiology Scientific Sessions
Atlanta, Ga

Bibliography:

A. Original Communications in Reviewed Journals

Manuscripts

1. Garcia MJ, Kidwai Z, Rosa J, Cooper EB. Thiazide-induced pulmonary edema. *Connecticut Medicine* 1992;56:185-86.
2. Garcia MJ, Neumann D, Go RT, Ares M, Rodriguez L, Griffin B, Thomas JD. Comparison of persistent thallium perfusion defects by quantitative washout analysis with thallium reinjection in patients with coronary artery disease. *Am J Cardiol* 1994;74:977-81)
3. Chandra S, Garcia MJ, Moorehead A, Thomas JD. Spatiotemporal fourier filtration of acoustic quantification endocardial borders using Cartesian vs Polar coordinate systems. *Computers in Cardiology*. 1994; 17-20.
4. Garcia MJ, LaRaia PJ, Boucher CA. Exercise thallium-201 imaging characteristics and prognostic value in patients with left bundle branch block. *Am J Noninvas Cardiol* 1994;8:58-62.
5. Garcia MJ, Rodriguez L, Ares MA, Griffin BP, Thomas JD, Klein AL. Differentiation of Constrictive Pericarditis From Restrictive Cardiomyopathy: Assessment of Left Ventricular Diastolic Velocities in the Longitudinal Axis by Doppler Tissue Imaging. *J Am Coll Cardiol* 1996;27:108-14.
6. Garcia MJ, Vandervoort P, Stewart W, Lytle B, Cosgrove D, Thomas J, Griffin BP. Mechanisms of hemolysis with mitral prosthetic regurgitation: A study using transesophageal echo and fluid dynamic simulation. *J Am Coll Cardiol* 1996;27:399-406.
7. Garcia MJ, Desai S, LaRaia PJ, Boucher CA. Prognostic value of left ventricular cavity dilatation in patients with increased Thallium lung uptake during exercise Thallium-201 testing. *Am J Noninv Cardiol* 1994 8:381-5.
8. Garcia MJ, Rodriguez L, Vandervoort P. Pulmonary vein thrombosis and peripheral arterial embolization. *Chest* 1996 109:846-7.
9. Passer A, Garcia MJ. Myocardial ischemia detected by ambulatory monitoring after acute myocardial infarction. (letter) *New Engl J Med* 1996 334:1545.
10. Garcia MJ, Passer A. Coronary-artery bypass surgery after internal-thoracic-artery grafts (letter) *New Eng J Med* 1996 334:1609.
11. Rodriguez L, Garcia MJ, Ares MA, Griffin BP, Nakatani S, Thomas JD. Assessment of mitral annular dynamics during diastole by Doppler tissue imaging: Comparison with mitral Doppler inflow in subjects without heart disease and in patients with left ventricular hypertrophy. *Am Heart J* 1996 131:982-7.
12. Garcia MJ, Rodriguez L, Ares M, Griffin BP, Klein AL, Stewart WJ, Thomas JD. Myocardial wall velocity assessment by pulsed Doppler tissue imaging: Characteristic findings in normal subjects. *Am Heart J* 1996 132:648-56.

13. Garcia MJ, Ares MA, Asher C, Rodriguez L, Vandervoort P, Thomas JD. Color M-mode flow velocity propagation: An index of early left ventricular filling that combined with pulsed Doppler peak E velocity may predict capillary wedge pressure. *J Am Coll Cardiol* 1997 29:448-54.
14. Chandra S, Garcia MJ, Morehead A, Thomas JD. Two-Dimensional Fourier Filtration of Acoustic Quantification Echocardiographic Images: Improved Reproducibility and Accuracy of Automated Measurements of Left Ventricular Performance. *J Am Soc Echocardiogr* 1997 10:310-9.
15. Thomas JD, Garcia MJ, Greenberg NL. Application of color M-mode Echocardiography in the assessment of ventricular diastolic function: Potential for quantitative analysis. *Heart and Vessels* 1997 Suppl 12:135-7.
16. Soble JS, Yurow G, Brar R, Stamos T, Neumann A, Garcia M, Stoddard M, Cherian PK, Bhamb B, Thomas JD. Comparison of MPEG digital video with super VHS tape for diagnostic echocardiographic readings. *J Am Soc Echocardiogr* 1998 11:819-25.
17. Yamada E, Garcia MJ, Thomas JD, Marwick TH. Myocardial Doppler velocity imaging- a quantitative technique for interpretation of dobutamine echocardiography. *Am J Cardiol* 1998 82:805-9.
18. Garcia MJ, Palac RT, Malenka, DJ, Terrell P, Plehn JF. Color M-mode Doppler flow propagation velocity is a relatively preload-independent index of left ventricular filling. *J Am Soc Echocardiogr* 1999 12:129-37.
19. Farias CA, Rodriguez L, Garcia MJ, Sun JP, Klein AL, Thomas JD. Assessment of diastolic function by tissue Doppler echocardiography: Comparison with standard transmitral and pulmonary venous flow. *J Am Soc Echocardiogr* 1999 12:609-17.
20. Nakatani S, Garcia MJ, Firstenberg MS, Rodriguez L, Grimm RA, Greenberg NL, McCarthy PM, Vandervoort PM, Thomas JD. Noninvasive assessment of LA maximum dP/dt by a combination of transmitral and pulmonary venous flow. *J Am Coll Cardiol* 1999 34:795-801.
21. Flachskampf FA, Banbury M, Smedira N, Thomas JD, Garcia MJ. Transesophageal echocardiography diagnosis of intramural hematoma of the ascending aorta: A word of caution. *J Am Soc Echocardiogr* 1999 12:866-70.
22. Pasquet A. Garcia MJ. Thomas JD. New approaches to the Doppler echocardiographic assessment of diastolic function: from research laboratory to clinical practice. *Prog Pediatr Cardiol* 1999 10(2):105-12.
23. Murray RD, Goodman AS, Lieber EA, Jasper SV, Grimm RA, Garcia M, Miller DM, Klein AL. National use of the transesophageal guided approach to cardioversion for patients in atrial fibrillation. *Am J Cardiol* 2000 85:239-44.
24. Appleton CP. Firstenberg MS. Garcia MJ. Thomas JD. The echo-Doppler evaluation of left ventricular diastolic function. A current perspective. *Cardiology Clinics* 2000 18(3):513-46.
25. Garcia MJ, Smedira NG, Greenberg NL, Main M, Firstenberg MS, Obadashian J, Thomas JD. Color M-mode Doppler flow propagation is a preload insensitive index of left ventricular relaxation: Animal and human validation. *J Am Coll Cardiol* 2000 35:201-8.

26. Yalcin F, Shiota T, Odabashian J, Agler D, Greenberg NL, Garcia MJ, Lever HM, Thomas JD. Comparison by real time three-dimensional echocardiography of left ventricular geometry in hypertrophic cardiomyopathy versus secondary left ventricular hypertrophy. *Am J Cardiol* 2000 85:1035-8.
27. Firstenberg MS, Thomas JD, Garcia MJ. Resolution of phentermine-fenfluramine-induced valvular regurgitation. *Cardiovascular Fellows Forum* 2000 2 (2): 3-4.
28. Firstenberg MS, Garcia MJ, Smedira N, Greenberg NL, Prior DL, Scalia GM, Thomas JD. In vivo guided numerical modeling of pulmonary venous waveforms: a paradigm for applied physiology research. *Computers in Cardiology* 1999 26:13-16.
29. Firstenberg MS, Greenberg NL, Garcia MJ, Castro PL, Prior DL, Smedira NG, Thomas JD. Semi-automated analysis of color M-mode echocardiographic images for determining transmitral pressure gradients using a simplified Euler equation. *Computers in Cardiology* 1999 26: 181-184.
30. Greenberg NL, Prior DL, Firstenberg MS, Garcia MJ, Thomas JD. Automated estimation of regurgitant volume and effective orifice area from color Doppler echocardiography. *Computers in Cardiology* 1999 26: 619-622.
31. Firstenberg MS, Greenberg NL, Smedira NG, Prior DL, Scalia GM, Thomas JD, Garcia MJ. Doppler evaluation of pulmonary venous-left atrial pressure gradients in humans and numerical model validation. *Am J Physiol: Heart Circ Physiol* 2000 279: H594-H6000.
32. Yalcin F, Aksoy FG, Muderrisoglu H, Sabah I, Garcia MJ, Thomas JD. Treatment of hypertension with peridopril reduces plasma atrial natriuretic peptide levels, left ventricular mass and improves echocardiographic parameters of diastolic function. *Clin Cardiol* 2000 23:437-441.
33. Firstenberg MS, Greenberg NL, Smedira NG, Castro P, Thomas JD, Garcia MJ. The effects of acute coronary occlusion on noninvasive echocardiographically derived systolic and diastolic myocardial strain rates. *Current Surgery Vol 57/No. 5, Sept/Oct 2000* 466-472.
34. Firstenberg MS, Levine BD, Garcia MJ, Greenberg NL, Cardon L, Morehead AJ, Zuckerman J, Thomas JD. Relationship of echocardiographic indices to pulmonary capillary wedge pressures in healthy volunteers. *J Am Coll Cardiol* 2000 36(5):1664-9.
35. Firstenberg Ms, Vandervoort PM, Greenberg NL, Smedira NG, McCarthy PM, Garcia MJ, Thomas JD. Noninvasive estimation of transmitral pressure drop across the normal mitral valve in humans: importance of convective and inertial forces during left ventricular filing. *J Am Coll Cardiol* 2000 Nov 15; 36 (6): 1942-1949.
36. Cho L, Gillinov AM, Cosgrove DM, Griffin BP, Garcia MJ. Echocardiographic assessment of the mechanisms of correction of bileaflet prolapse causing mitral regurgitation with only posterior leaflet repair surgery. *J Am Coll Cardiol* 2000 Dec 15; 86, 1349-1351.
37. Castro PL, Greenberg NL, Drinko J, Garcia MJ, Thomas JD. Potential pitfalls of strain rate imaging: angle dependency. *Biomedical Sciences Instrumentation* 2000 36:197-202.
38. Greenberg NL, Castro PL, Drinko J, Garcia MJ, Thomas JD. Effect of scanline orientation on ventricular flow propagation: assessment using high frame-rate color Doppler echocardiography. *Biomedical Sciences Instrumentation* 2000;36:203-8.

39. Mukherjee D, Nader S, Olano A, Garcia MJ, Griffin BP. Improvement in right ventricular systolic function after surgical correction of isolated tricuspid regurgitation. *J Am Soc Echocardiogr* 2000;13:650-4.
40. Firstenberg MS, Greenberg NL, Lin SS, Garcia MJ, Alexander LA, Thomas JD. Transesophageal echocardiography assessment of severe ostial left main coronary stenosis. *J Am Soc Echocardiogr* 2000;13:696-8.
41. Rubin DN, Yazbek N, Garcia MJ, Stewart WJ, Thomas JD. Qualitative and quantitative effects of harmonic echocardiographic imaging on endocardial edge definition and side-lobe artifacts. *J Am Soc Echocardiogr* 2000;13(11):1012-8.
42. Rajogopalan N, Garcia MJ, Rodriguez L, Murray RD, Aperson-Hansen C, Stugaard M, Thomas JD, Klein AI. Comparison of new Doppler echocardiographic methods to differentiate constrictive pericardial heart disease and restrictive cardiomyopathy. *Am J Cardiology* 2001 Jan; 87 (1): 86-94.
43. Garcia MJ, Color M-Mode Doppler flow propagation velocity in cardiac tamponade-Reply. *J Am Coll Cardiol* 2001 Jan; 37 (1): 329.
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C. Abstracts:

Over 250 presented at national and international scientific sessions, available upon request.