

## CURRICULUM VITAE

**NAME:** Robert James Siegel

**BUSINESS ADDRESS:** Heart Institute, Cardiology Div.  
Director, Cardiac Noninvasive  
Laboratory, Rm A3417  
Cedars-Sinai Medical Center  
127 S. San Vicente Blvd  
Los Angeles, CA 90048

**BUSINESS PHONE:** (310) 423-3849  
**FAX:** (310) 423-8571  
**E-Mail:** siegel@cshs.org

**DATE OF BIRTH:** October 23, 1950      **PLACE OF BIRTH:** Los Angeles, CA

**CITIZENSHIP:** United States

**MARITAL STATUS:** Married

### EDUCATION:

1968-1971      University of California, Berkeley, California

1971-1974      Baylor College of Medicine, Houston, Texas

1974-1975      Intern (Medicine), Grady Memorial Hospital, Emory University Affiliated Hospitals,  
Atlanta, Georgia

1975-1976      Resident (Second Year) Internal Medicine, Grady Memorial Hospital, Emory University  
Affiliated Hospitals, Atlanta, Georgia

1976-1977      Resident (Third Year), Internal Medicine, Los Angeles County-University of Southern  
California Medical Center, Los Angeles, California

1977-1978      Chief Resident, Resident Supervisor, Internal Medicine, Los Angeles County-University of  
Southern California Medical Center, Los Angeles, California

1978-1980      Cardiology Fellowship, Harbor-UCLA Medical Center, Torrance, California

1980-1981      Senior Staff Fellow in Cardiac Pathology at Heart, Lung and Blood Institute, National  
Institutes of Health, Bethesda, Maryland

**LICENSURE:** California - G33352  
Maryland - D26269

**Robert J. Siegel, M.D.**

2

**BOARD CERTIFICATION:** 1977 Diplomate, American Board of Internal Medicine  
1983 Subspecialty Cardiovascular Diseases

**PROFESSIONAL EXPERIENCE:**

1993-Present Director, Cardiac Noninvasive Laboratory, Cedars-Sinai Medical Center  
1992-Present Professor of Medicine in Residence, Currently Step VIII, UCLA School of Medicine, Los Angeles, California  
1990-1993 Associate Director, Cardiac Noninvasive Laboratory, Cedars-Sinai Medical Center, Los Angeles, California  
1986-1992 Associate Professor of Medicine in Residence, UCLA School of Medicine, Los Angeles, California  
1986-1989 Associate Director of Electrocardiographic Stress Laboratory  
1982-1985 Assistant Professor of Medicine, UCLA School of Medicine, Los Angeles, California  
1982-1990 Chief of Cardiology Consult Service, Cedars-Sinai Medical Center, Los Angeles, California  
1982-Present Staff Cardiologist, Cedars-Sinai Medical Center, Los Angeles, California  
1981-1982 Research Associate in Cardiology, Division of Cardiology, Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, California  
2008 Attending Cardiologist, Los Angeles Free Clinic.  
2009 Voluntary teaching, traing in Saipan, Mariana Islands  
2009-Present Cedars-Sinai Academic Promotions and Appointments Council, Professor of Medicine in the Professorial Series  
2010-Present Director, Heart Institute Grand Rounds

**PROFESSIONAL ACTIVITIES:**

**COMMITTEES:**

1982-1983 American Heart Association, Greater Los Angeles Affiliate  
1985-1987 American Heart Association Research Committee, Greater Los Angeles Affiliate  
1985-1986 American Heart Association, Greater Los Angeles Affiliate 54th Annual Fall Symposium Committee  
1987-1988 Chairman, Grant-in-Aid Research Committee, American Heart Association, Greater Los Angeles Affiliate  
1987-1989 Cedars-Sinai Medical Center Peer Review Committee  
1989-1991 Council Educational Development - UCLA  
1989-1992 Chairman, Research Committee American Heart Association, Greater Los Angeles Affiliate  
1989-1995 Board of Directors, American Heart Association, Greater Los Angeles Affiliate  
1991-Present Board of Directors, Los Angeles Society of Echocardiography  
1995 American Heart Association Fall Symposium Committee, Greater Los Angeles Affiliate  
1995-Present Cardiology Performance Improvement Committee, Cedars-Sinai Medical Center  
1996 Host for the Young Investigators' Forum, American Heart Association, Greater Los Angeles Affiliate

**Robert J. Siegel, M.D.**

3

- 1996 Chairman, American Heart Association Fall Symposium Committee, Greater Los Angeles Affiliate
- 1997 Member, Griffith Committee, American Heart Association, Greater Los Angeles Affiliate
- 1997-1998 Member, American Heart Association Fall Symposium Committee, Greater Los Angeles Affiliate
- 1998-2002 Research Committee American Society of Echocardiography
- 1999-2000 Writing Committee, ACC Expert Consensus Document on Intravascular Ultrasound Studies
- 2000-2002 Educational Products Committee, American College of Cardiology
- 2000 Chair, 11<sup>th</sup> annual meeting visions beyond 2000 – Cardiology at the Crossroads, ACC California Chapter
- 2003 Program Director, The Second Annual Postgraduate Course on Techniques in Mitral Valve Echocardiography. Mitral Valve Repair XII, Cedars-Sinai Medical Center, Los Angeles, California
- 2003 American College of Cardiology – Educational Products Committee
- 2003 American College of Cardiology – Development Committee
- 2003 American College of Cardiology – Board of Governors
- 2003 American College of Cardiology – Foundation Board
- 2003 Cedars-Sinai Medical Center Center – Performance Improvement Committee
- 2003 American Heart Associate Fall Symposium Committee
- 2011-2013 Ex Officio of the Accreditation and Certification Committee, American College of Cardiology

**SOCIETIES:**

- 1981-Present American Heart Association
- 1989-1993 American College of Cardiology
- 1992-Present American College of Physicians
- 1992-Present Los Angeles Society of Echocardiography
- 1992-Present American Society of Echocardiography

**COMMUNITY SERVICE:**

- 2002-2006 LIGA, Flying Doctors of Mercy – Provide care to indigent patients in rural Mexico.
- 2002-2003 A Heart for Sports – Provide echo screening of high school athletes and others at risk for sudden cardiac death.
- 2008-Present Initiated and Direct Cardiology/Echo Services at Saban Los Angeles Free Clinic.
- 2009 Saipan (Mariana Islands)- Teaching, Patient Care and Echo Training – Community Health for Indigent Patients

**EDITORIAL BOARDS:**

- 1991-1997 American Heart Journal
- 1994-Present American Journal of Cardiology
- 1994-2000 Journal of Endovascular Surgery

**Robert J. Siegel, M.D.**

4

1996-2002 Impact Endovasculaire  
2000-2004 Journal of Endovascular Therapy  
2002-2004 EndocardioVascular Web Magazine  
2009-2012 Journal of the American Society of Echocardiography  
2011-Present European Journal of Echocardiography-Cardiovascular Imaging  
2013 Journal of the American College of Cardiology Cardiovascular Imaging

**JOURNAL REVIEWS FOR:**

1983-Present American Journal of Cardiology  
1984-Present Atherosclerosis and Thrombosis  
1985-Present American Heart Journal  
1989-Present Circulation  
1993-Present Chest  
1995-Present Cardiovascular Research  
1995-Present Echocardiography  
1995-Present Journal of American Society of Echocardiography  
1998-Present Journal of the American College of Cardiology  
2001-Present Thrombosis Research  
2001-Present Clinical Cardiology  
2005-Present Nature medicine (Cardiology)  
2005-Present European Heart Journal  
2008-Present European Journal of Echocardiography  
2008-Present Journal of the American Medical Association  
2010-Present Heart

**COURSE CO-DIRECTOR:**

The use of 2D-echocardiography and echo-Doppler in the perioperative period, March 2-4, 1995, Marina Del Rey, California

Co-Director, Mitral Valve Repair XII, Second Postgraduate Course on Techniques in Mitral Valve Surgery and Echocardiography, Cedars-Sinai Medical Center, Los Angeles California, 2003

Co-Director TEE course and TEE workshop in Tyumen, Russia , July 2005

**HONORS AND SPECIAL AWARDS:**

1971 Bachelor of Arts Cum Laude, University of California, Berkeley  
1980 Distinguished Teaching Award, Harbor-UCLA Medical Center  
1991-1993 Vice President, Los Angeles Society of Echocardiography  
1992-1996 District Counselor of California of American College of Cardiology  
1993-1995 President, Los Angeles Society of Echocardiography

**Robert J. Siegel, M.D.**

5

- 1995-1997 Visiting Professor with appointment of Professor of Internal Medicine, Shanghai Medical University, Shanghai, China
- 1995-1997 Vice President, Los Angeles Society of Echocardiography
- 1997 Special competency in echocardiography, American Society of Echocardiography Examination.
- 1999-2000 Vice President for the State of California Chapter, American College of Cardiology
- 1999-2001 Governor, Southern California Chapter of the American College of Cardiology
- 2001-2003 President, California Chapter, American College of Cardiology
- 2001 Fellow, American Heart Association
- 2001 Chairholder, Kennamer Chair in Cardiac Ultrasound
- 2002 Medical Honoree, Save-A-Heart Foundation Gala
- 2002 Monarch Pharmaceuticals Cardiovascular Specialist of the Year Award
- 2003 Certificate of Appreciation for Service and Contribution, A1 Member, Board of Governors, American College of Cardiology
- 2002-2003 President, California Chapter, American College of Cardiology
- 2003 Co-Director, Mitral Valve Repair XII, Second Postgraduate Course on Techniques in Mitral Valve Surgery and Echocardiography, Cedars-Sinai Medical Center, Los Angeles, California
- 2003-2005 America's Top Physicians, SLD Industries, Inc., Guide to America's Top Physicians
- 2004-2005 Outstanding Clinical Educator, Cardiology Fellows, Cedars-Sinai Medical Center
- 2005-2014 Best Doctors in America, Aiken, South Carolina
- 2006 Fellowship, American Society of Echocardiography
- 2006 Temporary Appointment to Medical Staff, University of Pennsylvania Health System, Philadelphia, PA
- 2006-2008 America's Top Cardiologists, Guide to America's Top Cardiologists, Consumers' Research Council of America, Washington, D.C.
- 2007 Fellow of the Academy, Officers of the International Academy of Clinical and Applied Thrombosis/Hemostasis, Glen Head, NY
- 2008 Outstanding Mentor Award for 2007-2008, Cardiology Fellows, Cedars-Sinai Medical Center, Los Angeles, CA
- 2008 Chairperson, National Institutes of Biomedical Imaging and Bioengineering, Special Emphasis Panel, NIH, Bethesda, Maryland
- 2008-2015 Southern California Super Doctors, Los Angeles Magazine, Key Professional Media, Inc., Minneapolis, MN
- 2008 Top Doctors, Los Angeles Magazine, Professional Recognition, Cary, NC
- 2008-2015 Patients' Choice Award, American Registry, Boca Raton, FL
- 2009-2010 Guide to America's Top Cardiologists, Consumers' Research Council of America, Washington, D.C.
- 2011-2013 Director, Cedars-Sinai Heart Institute Grand Rounds
- 2012-2015 American Registry and Castle Connolly "Top Doctors" Award, Delray Beach, Florida
- 2013 American Registry and Castle Connolly "Top Doctors for 10 Years" Award, Delray Beach, Florida
- 2013 Co-chair, National Marfans Foundation – National Week, July 31-August 3, 2013, Los Angeles, California

**Robert J. Siegel, M.D.**

6

- 2013 Top 10 Doctor Award for Top 10 Cardiologists. American Registry, LLC, Delray Beach, Florida
- 2014 Co-chair, ACC Scientific Sessions Planning Committee, Washington, DC
- 2014 Elliot Rappaport Cardiologist of the Year, American College of Cardiology California Chapter, 2014
- 2015 Top Doctors for 2015. Professional Recognition. Cary, NC
- 2015 Distinguished Teacher Award, American College of Cardiology, San Diego, California

**RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:****Agency:** Baxter Company**Grant Number:****Title:** Transcatheter Ultrasound Vascular Thrombolysis**Role:** Principal Investigator**% Effort:** 3%**Cost:** Up to \$150,000**Duration:** 1990-1993**Agency:** Cardiome Pharma**Grant Number:** 215280**Title:** OVERTURE: Omapatrilat versus Enalapril Randomized Trial of Utility in Reducing Events**Role:** Co-investigator**% Effort:** 1%**Cost:** 12 Echocardiograms at \$300 each: \$3,600**Duration:** 1/00 to 1/03**Agency:** Pfizer, Inc.**Grant Number:** 148060**Title:** REVERSAL: A Prospective, Randomized, Double-Blind Multicenter Study Comparing the Effects of Atorvastatin versus Pravastatin on the Progression and Quantification of Coronary Atherosclerotic Lesions as Measured by Intravascular Ultrasound (IVUS)**Role:** Supervisor of IVUS Studies**% Effort:** 1%**Cost:** 23 IVUS at \$300 each: \$6,900**Duration:** 1/00 to 1/04**Agency:** Guidant Corporation**Grant Number:** 1482410**Title:** COMPANION: Comparison of Medical Therapy, Pacing and Defibrillation in Heart Failure**Role:** Co-investigator**% Effort:** 1%**Cost:** \$900**Duration:** 1/2000 to present**Agency:** Cedars-Sinai Medical Center**Grant Number:** N/A**Title:** Kennamer Chair in Cardiac Ultrasound**Role:** Chair Holder**% Effort:** N/A

**Robert J. Siegel, M.D.**

7

**Cost:** Annual: Interest from the Endowed Chair supports the Echo Laboratory Research  
**Duration:** 2001

**Agency:** Timi3 Systems, Inc.

**Grant Number:** N/A

**Title:** Enhancement of thrombolytic effect on arterial thrombotic occlusion with preconditioning exposure of transcutaneous ultrasound

**Role:** Principal Investigator

**% Effort:** 2%

**Cost:** Direct Cost -  $\geq$  \$50,000

**Duration:** 7/01/01 – 6/30/03

**Agency:** Myogen Inc.

**Grant Number:** 1486350

**Title:** A Study to Determine the Safety and Effectiveness of Enoximone in Heart Failure (ESSENTIAL)

**Role:** Co-investigator

**% Effort:** 1%

**Cost:** \$3,600

**Duration:** 12/01 – 12/03

**Agency:** Nitromed, Inc.

**Grant Number:** 1485460

**Title:** African-American Heart Failure Trial (A-Heft)

**Role:** Co-investigator

**% Effort:** 1%

**Cost:** \$1,800

**Duration:** 9/6/01 – 9/5/03

**Agency:** Genetech, Inc., San Francisco, CA.

**Grant Number:** N/A

**Title:** Phase I, Open-label, Multicenter, dose-escalation study of the safety and pharmacokinetics of a recombinant humanized antibody to HER2 (rhuMAb 2C4) Administered every 3 weeks to subjects with advanced solid malignancies

**Role:** Co-investigator

**% Effort:** 1%

**Cost:** \$22,140.00

**Duration:** 10/01 – 10/02

**Agency:** Acorn Cardiovascular Inc.

**Grant Number:** 1486330

**Title:** A Randomized Trial of Acorn Cardiac Support Device Therapy in Patients with Dilated Cardiomyopathy

**Role:** Co-investigator

**% Effort:** 1%

**Cost:** \$7,200

**Duration:** 1/1/02 – 1/1/05

**Agency:** St. Jude Medical, Inc

**Grant Number:** N/A

**Title:** A Prospective, Observational Evaluation of the SJM Epic Porcine Valve

**Role:** Co-investigator

**Robert J. Siegel, M.D.**

8

**% Effort:** 1%  
**Cost:** \$60,000  
**Duration:** 12/02 – 12/07

**Agency:** Medtronic  
**Grant Number:** 148639  
**Title:** InSync ICD (General Phase): Clinical Study Evaluating Cardiac Resynchronization Therapy for Heart Failure Patients with ICD Indications (MIRACLE)  
**Role:** Co-investigator  
**% Effort:** 1%  
**Cost:** 3 Echos x 6 patients at \$300/Echo: \$5,400  
**Duration:** 3/1/02-2/28/03

**Agency:** Louis Warschaw Prostate Cancer Center  
**Grant Number:** N/A  
**Title:** A Phase I, Open-Label, Multicenter, Dose-Escalation Study of the Safety and Pharmacokinetics of a Recombinant Humanized Antibody to Her2 (Rhumab 2c4) Administered Every 3 Weeks to Subjects with Advanced Solid Malignancies, IRB #3691  
**Role:** Co-investigator  
**% Effort:** 1%  
**Cost:** \$26,160  
**Duration:** 2003-2004

**Agency:** Louis Warschaw Prostate Cancer Center

**Grant Number:** N/A  
**Title:** A Phase II, Open-Label, Multicenter Clinical Trial to Evaluate the Efficacy and Safety of rhuMAb 2C4 (Pertuzumab) in Subjects with Castration-Resistant Prostate Cancer, IRB #4100  
**Role:** Co-investigator  
**% Effort:** 1%  
**Cost:** \$30,900  
**Duration:** 2003-2004

**Agency:** Edwards  
**Grant Number:** N/A  
**Title:** International Registry and Core laboratory for Carpentier Edwards Biophysio Valve  
**Role:** Principle Investigator of International Echocardiography Core Laboratory  
**% Effort:** 4%  
**Cost:** \$450,000  
**Duration:** 2004-2006

**Agency:** Pfizer Global Pharmaceuticals  
**Grant Number:** 2002-0084  
**Title:** Assessment of Early Endothelial Effect of Statins by Brachial Reactivity Index  
**Role:** Principal Investigator  
**% Effort:** 3%  
**Cost:** \$3,000  
**Duration:** 2005-2006

**Agency:** Myocor  
**Grant Number:** N/A  
**Title:** Randomized Evaluation of a Surgical Treatment for Off-pump Repair of the Mitral Valve (RESTOR-MV)  
**Role:** Co-investigator



**Robert J. Siegel, M.D.**

9

**% Effort:** 1%  
**Cost:** \$21,000  
**Duration:** Projected 9/05 – 12/09

**Agency:** Biosite Corporation  
**Grant Number:** N/A  
**Title:** Assay for Rapid Detection of Aortic Dissection  
**Role:** Principle Investigator  
**% Effort:** 1%  
**Cost: \$18,063 (budget)**  
**Duration:** 2005-2006

**Agency:** BioQuantetics  
**Grant Number:** 217058  
**Title:** Application of Real-Time Ultrasound Burst Spectrography (RUBS) for Detection of SLS in BSCC Mechanical Heart Valves  
**Role:** Principle Investigator  
**% Effort:** 1%  
**Cost:** \$4000 (\$2000 IRB fee & \$2000 IRB prep)  
**Duration:** 1/15/07 – 1/14/08

**Agency:** Philips Ultrasound Inc (Siegel, RJ)  
**Grant Number:** 219255  
**Title:** Three Dimensional Heart Images with iE33 Ultrasound  
**Role:** Principle Investigator  
**% Effort:** .6 calendar  
**Award:** \$9,733.00  
**Duration:** 5/13/2010-4/14/2011

**Agency:** NIH/Medical Genetics Institute  
**Grant Number:** U01 HL068270 (Rimoin, Sub-contract PI)  
**Title:** Trial of Beta Blocker Therapy (Atenolol) vs. Angiotensin II Receptor Block Therapy (Losartan) in Individuals with Marfan Syndrome  
**Role:** Co-Investigator  
**% Effort:** .6 calendar  
**Award:** \$240,000  
**Duration:** 2/2008-2/2013

**Agency:** Edwards Lifesciences LLC (Makkar, R)  
**Grant Number:** 217536  
**Title:** The Edwards SAPIEN Transcatheter Heart Valve (PARTNER Study)  
**Role:** Co-Investigator  
**% Effort:** .12 calendar  
**Award:** \$467,000  
**Duration:** 8/2007- 8/2013

**Agency:** National Institutes of Health  
**Grant Number:** 1R01 HL095868-01A1 (Kaul, Sanjiv)  
**Title:** Ultrasound-Targeted Therapy for Acute Myocardial Infarction  
**Role:** Sub-Contract PI (Siegel, RJ)  
**% Effort:** 1.2 calendar

Robert J. Siegel, M.D.

10

**Award:** \$83,240

**Duration:** 7/1/2010-6/30/2014

**Agency:** Department of Veterans Affairs

**Grant Number:** NCT01970566 (Naser, Ahmadi)

**Title:** Comparison of the Effect of Intense-Exercise/Moderate-Calorie, Topiramate-Phentermine and Cognitive Behavioral Therapy on Obesity

**Role:** Consultant

**% Effort:** 1%

**Award:** \$750,000

**Duration:** 8/28/13 – 8/28/18

**INTERNATIONAL FELLOWSHIPS IN MY RESEARCH LABORATORY** (Funded by Applicant's university or \*Save-A-Heart Foundation)

1989-1990	Jang Song Chae, Korea
1990-1992	Wolfgan Steffen, Germany
1991-1992	J. C. Park, Korea
1992-1993	D Y Lee, Taiwan
1992-1993	Huai Luo, China
1992-1993	Anick Haouzi, France
1994-1995	Joseph Samara, Jordan
1994-1996	Toshihiko Nishioka, Japan
1994-1996	Hans Berglund, Sweden
1994-1996	C. J. Kim, Korea
1997-1998	Yochai Birnbaum, <b>Israel*</b>
1997-1999	Tomoo Nagai, <b>Japan</b>
1997-1999	Shaul Atar, <b>Israel*</b>
1998-2000	Andrea Brasch, <b>Israel*</b>
1998-2000	Doo-Soo Jeon, <b>Korea</b>
2000-2003	Takashi Miyamoto, <b>Japan</b>
2001-2003	Sergio Kobal, <b>Israel*</b>
2001-2003	Yoram Neuman, <b>Israel*</b>
2003-2005	Kohsuke Hagsawa, <b>Japan</b>
2004-2006	Takashi Akima, <b>Japan</b>
2004-2006	Kiyoshi Iida, <b>Japan</b>
2004-2006	Sorel Goland, <b>Israel</b>
2006-2009	Asim Rafique, USA
2007-2009	Biner, Simon, <b>Israel</b>
2012-2014	Beigel, Roy, <b>Israel</b>

**VISITING PROFESSORSHIP**

1995                      Shanghai Zongshan Hospital, Shanghai Medical University, Shanghai, China.

- 2002 University of Texas, Galveston, November 6-8, 2002
- 2005 Visiting Professor, Cardiology Grand Rounds, New York University, N.Y., October 27, 2005
- 2005 Harbor-UCLA Medical Center November 16, 2005

**LECTURES AND PRESENTATIONS****1990**

February 12-14 Ultrasonic Clot Disruption. Arizona Heart Institute, Third International Congress on Endovascular Therapy, Scottsdale, AZ

Percutaneous Peripheral Ultrasonic Angioplasty: Initial Clinic Experience. Arizona Heart Institute, Third International Congress on endovascular Therapy, Scottsdale, AZ

**1990**

February 12-14 Intravascular Imaging: Utility of Angioscopy and Diagnostic 2D and 3D Intravascular Ultrasound. Arizona Heart Institute, Third International Congress on Endovascular Therapy, Scottsdale, AZ

March 17 Comparison of Intravascular Ultrasound 2D and 3D and Fiberoptic Angioscopy in the Evaluation of Arterial Abnormalities. Symposium on Intravascular Imaging, Tufts University School of Medicine, New Orleans, LA

March 20 Origin of the 3<sup>o</sup> Ringed Appearance of Human Arteries by Ultrasound: Microdissection with Ultrasonic and Histologic Correlation. Scientific Sessions of the American College of Cardiology, New Orleans, LA

March 20 Therapeutic Intravascular Ultrasound. Invited speaker (symposium). Scientific Sessions of the American College of Cardiology, New Orleans, LA

April 5-7 Comparison of Fiberoptic Angioscopy and Intravascular Ultrasound Imaging. Seventh International Congress of Echocardiography, Rome, Italy

May 4-5 Experimental Models of Atherosclerosis: Implications for Atherosclerosis Regression in Humans. Chairman, Lipids and Atherosclerosis Symposium. Cedars-Sinai Medical Center, Los Angeles, CA

June 6 Atherosclerosis: Progression and Regression. Cardiology Grand Rounds, Kaiser Sunset Hospital, Los Angeles, CA

August 13-15 Ultrasound Angioplasty. Course Symposium Angioplasty for the 90's. San Francisco Heart Institute, San Francisco, CA

- August 19 Therapeutic uses of Catheter Delivered Ultrasound. Symposium on Intravascular Ultrasound Imaging, University of California, Anaheim, CA
- September 16 Ultrasound Angioplasty. American College of Cardiology Course, Future Directions in Interventional Cardiology, Santa Barbara, CA
- November 1 Ultrasound Clot Lysis. Advances in Vascular Surgery Symposium. Maryland Vascular Institute, Baltimore, MD
- November 2 Ultrasound Plaque Ablation. Advances in Vascular Surgery Symposium. Maryland Vascular Institute, Baltimore, MD

**1990**

- November 3 Diagnostic Intravascular Ultrasound. Echocardiography Symposium of North Ridge Medical Center, Fort Lauderdale, FL
- November 3 Therapeutic Intravascular Ultrasound. Echocardiography Symposium of North Ridge Medical Center, Fort Lauderdale, FL
- November 14 Histopathologic Validation of Angioscopy and Intravascular Ultrasound. American Heart Association Scientific Sessions, Dallas, Tx
- November 25 Ultrasound Angioplasty: Experimental and Clinical Results. Croatian Congress of Cardiology, Zagreb, Yugoslavia
- December 7 Therapeutic Intravascular Ultrasound. Symposium on Transcatheter Cardiovascular Therapeutics 1990. Sponsored by Washington Hospital Center, Washington, DC

**1991**

- February 13 Therapeutic Intravascular Ultrasound for Athero- and Thrombosis. Arizona Heart Institute Symposium, Phoenix, AZ
- March 2 Fiberoptic Angioscopy and Intravascular Ultrasound: Complementary or Competitive. Tufts University School of Medicine Symposium, Atlanta, GA
- March 6 Is Idiopathic Dilated Cardiomyopathy a Reversible Condition. Scientific Sessions of the American College of Cardiology, Atlanta, GA
- Percutaneous Ultrasound Angioplasty: Acute and Long Term Results. Scientific Sessions of the American College of Cardiology, Atlanta, GA

- April 25 Therapeutic Intravascular Ultrasound. Advances in Cardiac Ultrasound, sponsored by the University of Aachen, Aachen, Germany
- April 30 Therapeutic Ultrasound Angioplasty: Experimental and Clinical Studies. Cardiology Grand Rounds, Johannes Gutenberg University Hospital, Mainz, Germany
- May 19 Ultrasound Angioplasty. The First European Workshop on Future Directions in Interventional Cardiology, Monaco

**1991**

- May 22 Therapeutic Intravascular Ultrasound. Experimental and Clinical Results. Cardiology Grand rounds, University of Utrecht, Utrecht, Holland
- May 29 Diagnostic and Therapeutic Intravascular Ultrasound. The Fourth International Symposium of Echocardiography in Cardiac Surgery, Innsbruck, Austria
- June 7 Ultrasound Angioplasty. American College of Cardiology sponsored course in Interventional Cardiology at Cedars-Sinai Medical Center, Los Angeles, CA
- August 14 Diagnostic and Therapeutic Intravascular Ultrasound. 1991 course sponsored by the San Francisco Heart Institute, San Francisco, CA
- September 20 Combined Angioscopy and Intravascular Ultrasound Imaging. The American College of Cardiology course - Future Directions in Interventional Cardiology, Santa Barbara, CA
- September 21 Ultrasound Angioplasty. The American College of Cardiology course - Future Directions in Interventional Cardiology, Santa Barbara, CA
- September 25 Diagnostic and Therapeutic Intravascular Ultrasound. Los Angeles Society of Echocardiography, Santa Monica, CA
- October 21 Diagnostic and Therapeutic Intravascular Ultrasound. American College of Cardiology sponsored lecture at Heart House, Bethesda, MD
- October 23 Echo Doppler Findings in Cardiomyopathies. American College of Cardiology sponsored lecture at Heart House, Bethesda, MD

**1992**

- January 11 Therapeutic Ultrasound Ablation Catheter. Transcatheter Therapeutics 1992, sponsored by the Washington Hospital Medical Center, Washington, D.C.
- January 17 Therapeutic Ultrasound in Atherosclerotic Lesions of the Lower Limbs. Symposium on Vascular Surgical Techniques, sponsored by the Hospital St. Joseph, Paris, France

February 10 Diagnostic and Therapeutic Intravascular Ultrasound. Seventh Annual Cardiology Conference at Hawaii, sponsored by the American College of Cardiology, Kona, Hawaii

**1992**

February 14 Peripheral Ultrasound Angioplasty: Does the Techynique Have a Potential? The International Congress V - Strategies in Endovascular Interventions, Scottsdale, Arizona

February 14 High Intensity, Low Frequency Ultrasound is Effective in Clot Lysis. The International Congress V - Strategies in Endovascular Interventions, Scottsdale, Arizona

March 23 Diagnostic Intravascular Ultrasound Imaging. Cardiology Grand Rounds. Wadsworth Veterans Administration Hospital - University of California at Los Angeles, Los Angeles, CA

March 27 Texas Heart Institute Research Conference - Doppler Echocardiographic assessment of Cardiomyopathies. Cardiology Grand Rounds - Diagnostic and Therapeutic Intravascular Ultrasound. Texas Heart Institute, Houston, TX

April 14 Simultaneous Intravascular Angioscopy and Ultrasound Imaging. American College of Cardiology 41st Annual Scientific Sessions, Dallas, Tx

April 23 Ultrasound Angioplasty: Experimental and Clinical Results. Japanese Society of Echocardiography, Kobe, Japan

June 5 Ultrasound Angioplasty. Second European Workshop on Future Directions in Interventional Cardiology, Monaco

June 13 New Diagnostic Intravascular Modalities. Association of Interventional Cardiologists of Mexico, Guadalajara, Mexico

June 13 Ultrasound Angioplasty. Association of Interventional Cardiologists of Mexico

June 27 Ablative Ultrasound. Harvard Cotinuing Medical Education Course, Future Directions in Interventional Cardiology Therapy, Boston, MA

July 13 Echo and Angioplasty. Fifth International Symposium of Echocardiography in Cardiac Surgery, Vienna, Austria

August 31 Therapeutic Intravascular Ultrasound with Emphasis on Clot Disruption. Invited speaker at the European Congress of Cardiology, Barcelona, Spain

September 18 therapeutic Intravascular Ultrasound. Future Directions in Interventional Cardiology, sponsored by the American College of Cardiology, Santa Barbara, CA

**1992**

September 20 Simultaneous Angioscopic and Intravascular Ultrasound Imaging. Future Directions in Interventional Cardiology, sponsored by the American College of Cardiology, Santa Barbara, CA

September 26 Ultrasound Coronary Ablation: Principles and Initial Investigations. Coronary Interventions, 1992, Scripps Clinic, La Jolla, CA

October 5-6 Therapeutic Intravascular Ultrasound. Catholic University Medical College, Seoul, Korea

October 6 Intravascular Imaging: Current Status, Future Directions. Korean Society of Circulation, Seoul, Korea

October 22 Intravascular Ultrasound and Angioscopy. 3rd International Course on Peripheral Vascular Intervention, Nancy, France

October 23 Ultrasound Ablation-Experimental Clinical Studies. Nancy, France. 3rd International Course in Peripheral Vascular Intervention, Nancy, France

October 29 Echo Doppler Evaluation of the Cardiomyopathies Clinical Applications of Doppler and Transesophageal Echocardiography. Sponsored by the American College of Cardiology, Bethesda, MD

October 30 TEE Evaluation of Aortic Dissection and other Aortic Pathology. Sponsored by the American College of Cardiology, Bethesda, MD

October 31 Intravascular Echocardiography. Sponsored by the American College of Cardiology, Bethesda, MD

November 17 Development of a Flexible Over-the-Wire Ultrasound Coronary Ablation Catheter, American Heart Association Scientific Session, New Orleans, LA

December 18 Therapeutic Ultrasound in Cardiology, The Royal Society of Chemistry, "Sonochemistry Group," London, England

**1993**

January 16 Ultrasound Angioplasty: Clinical Results on Peripheral Arteries, Experimental Results in Coronary Arteries, Transcatheter Cardiovascular Therapeutics, Washington Hospital Center, Washington, D.C.

- January 28      Development of an Ultrasound Coronary Ablation Catheter System, Scientific Sessions International Congress VI: Endovascular Interventions, American College of Angiology, Phoenix, AZ
- March 15        Clinical Results of Percutaneous and Coronary Ultrasound Angioplasty, Scientific Sessions of the American College of Cardiology, Anaheim, CA
- March 18        Mechanisms of Balloon Angioplasty, Scientific Sessions of the American College of Cardiology, Anaheim, California
- March 28        Coronary Ultrasound Angioplasty, Update in Cardiology, Redding Medical Center, Napa, CA
- May 14          Ultrasound Angioplasty, Excimer Laser Coronary Angioplasty and New Interventional Technologies, Cedars-Sinai Medical Center, Marina Del Rey, CA
- May 27          Experimental Development of Ultrasound Angioplasty, Third European Workshop on Future Directions in Interventional Cardiology, Monaco
- August 10       Diagnostic and therapeutic intravascular ultrasound, Medical Grant Rounds, Harbor-UCLA Medical Center, Torrance, CA
- August 11       Coronary Ultrasound: Theoretical and Basic Science Consideration, Coronary Rotational Ablation: Relationship to Balloon Angioplasty and Other New Devices, San Francisco Heart Institute, Daly City, CA
- August 29       Percutaneous Ultrasonic Angioplasty: Initial Clinical Experience, European Congress of Cardiology, Nice, France
- October 1        Coronary Ultrasound Angioplasty, ACC Conference: Future Directions in Interventional Cardiology, Santa Barbara, CA
- October 14      Echo Doppler Evaluation of Cardiomyopathies. ACC Heart House, Bethesda, MD
- October 15      TEE Evaluation of Aortic Dissection and Other Aortic Pathology, ACC Heart House. Bethesda, MD
- 1993**
- October 16      Intravascular Echocardiography, ACC Heart House, Bethesda, MD



**Robert J. Siegel, M.D.**

17

- October 16 Therapeutic Intracoronary Ultrasound Angioplasty. East-Meets West Interventional Cardiology, Washington, D.C.
- October 22 Ultrasound Angioplasty. Cardiology Conference, University of Leuven, Leuven, Belgium
- November 6 Intravascular Ultrasound Imaging: Beyond Angioplasty, Sponsored by Cleveland Clinic, Atlanta, GA
- November 24 Diagnostic and therapeutic Ultrasound Angioplasty, Cardiology Grand Rounds, Korea University Hospital, Seoul, Korea
- November 25 Intravascular Ultrasound and Ultrasound thrombolysis and Angioplasty. The Second Scientific Meeting of the Korean Society of Echocardiography, Seoul, Korea
- December 10 State-of-the-Art Conference on Invasive Cardiology: Current Diagnostic and Therapeutic Issues. Ultrasonic Ablation. American Heart Association, Council on Clinical Cardiology, Washington, D.C.

**1994**

- February 4 Intravascular Ultrasound: Diagnostic and Therapeutic Developments. Cardiology Update. American College of Cardiology, Los Angeles, CA
- February 15 Ultrasound thrombus Dissolution: Studies Using Three Different Types of Ultrasound Delivery Systems. Scientific Sessions International Congress VII. Endovascular Interventions, American College of Angiology, Phoenix, AZ
- February 24 Ultrasonic Angioplasty. Transcatheter Cardiovascular Therapeutics, Washington Hospital Center, Washington, D.C.
- March 8 Ultrasound Angioplasty. Cardiology Grand Rounds, University of Southern California, Los Angeles, CA
- March 12 Coronary Ultrasound Angioplasty. Interventional Cardiology in Perspective. Demonstration Course XXVIII, Emory University School of Medicine, Atlanta, GA
- April 6 Diagnostic and Therapeutic Intracoronary Ultrasound. Arizona Cardiovascular Society, Phoenix, AZ

**1994**

- April 20 Intracoronary Ultrasound Visualization as an Innovative Tool in the Assessment of Coronary Artery Disease. Sponsored by Albert Einstein College of Medicine and Montefiore Medical Center, Miami, FL

- April 30 Therapeutic Ultrasound Coronary Angioplasty at "Update 1994: Management of Coronary and Peripheral Thrombosis and Atherosclerosis". San Francisco Heart Institute, Napa Valley, CA.
- May 19 Therapeutic Ultrasound in Peripheral Arterial Disease. Fourth European Workshop on Future Directions in Interventional Cardiology, Monaco
- July 2 Diagnostic and Therapeutic Intracoronary Ultrasound. Third Atteese - Discussion of Cardiologists, Unterach, Austria
- July 4 Diagnostic and therapeutic Ultrasound, Cardiology Conference. University of Vienna, Vienna, Austria
- September 17 Ultrasound Thrombolysis. Update in Thrombolysis 1994. Sponsored by European Society of Cardiology and International Society of Fibrinolysis and Thrombolysis, Vienna, Austria
- October 1 Intracoronary ultrasound: Clinical application for the diagnosis and treatment of coronary artery disease. Sixty second annual fall symposium American Heart Association, Los Angeles, CA
- October 22 Diagnostic and therapeutic uses of intracoronary ultrasound. Fifth International Course on Peripheral Vascular Intervention, Nancy, France
- October 28 Therapeutic intracoronary ultrasound - Results from clinical trials. Coronary Interventions, Scripps Clinic, La Jolla, CA
- November 4 Diagnostic and therapeutic ultrasound - Clinical applications. The Herat Center, Sharp Memorial Hospital, San Diego, CA
- November 9 Diagnostic and therapeutic intracoronary ultrasound. National Defense Medical College, Saitama, Japan
- November 11 Intravascular imaging with an emphasis on intracoronary ultrasound imaging. Second meeting of Japanese Society of Intracardiovascular Imaging, Tokyo, Japan

**1994**

- November 21 Intravessel ultrasound diagnosis. Second Scientific Congress of the Middle East and North African Chapter of the International Cardiovascular Society, Saudi Arabia

November 21 Intravessel ultrasound angioplasty. Second Scientific Congress of the Middle East and North African Chapter of the International Cardiovascular Society, Saudia Arabia

**1995**

February 14 Chronic vessel constriction is an important mechanism of restenosis after balloon angioplasty. Scientific Sessions International Congress VIII. Endovascular Interventions. American College of Angiology, Phoenix, AZ

February 25 Ultrasound Angioplasty. Transcatheter Cardiovascular Therapeutics VII. Washington Convention Center, Washington, D.C.

March 3 Echocardiographic Evluation of the Thoracic Aorta. The use of 2D-echocardiography and echo-Doppler in the perioperative period, Marina Del Rey, CA

March 3 The Aortic Valve: Preoperative and Intraoperative Evaluation. The use of 2D-echocardiography and echo-Doppler in the perioperative period, Marina Del Rey, CA

March 4 Use of Echocardiography in the Pre- and Postoperative Evaluation of the Lung Transplant Patient. The use of 2D-echocardiography and echo-Doppler in the perioperative period, Marina Del Rey, CA

April 6 Ultrasound ablation: A new therapy for diffuse disease, occlusions and thrombus. Advanced Techniques in Angioplasty, Los Angeles, CA

June 30 Ultrasound Thrombus Dissolution. Research Conference, Good Samaritan Hospital, Los Angeles, CA

August 2 Ultrasound Thrombolysis. Lawrence Livermore Laboratory, Livermore, CA

August 10 Ultrasound Thrombolysis. Jet Propulsion Laboratory, NASA, Pasadena, CA

**1995**

October 9-13 Visiting Professor, Shanghai Zongshan Hospital, Shanghai Medical University, Shanghai, China. Development of Catheter Delivered Therapeutic Ultrasound. Percutaneous Peripheral Ultrasound Angioplasty. Coronary Ultrasound Angioplasty. Practical Applications of Intracoronary Ultrasound Imaging. Development of Transcutaneous Ultrasound Thrombolysis.

October 19-22 Coronary Interventions: 1995. Ultrasound Atherectomy Update. Scripps Clinic and Research Foundation, LaJolla, California.

**1996**

- January 25      Ultrasound Angioplasty. New Trends in Cardiovascular Ultrasound and Interventional Cardiology. Bad Hofgastein, Austria
- February 11     Ultrasound Assessment of Coronary Saphenous Vein Bypass Grafts. International Congress IX Endovascular Interventions, Scottsdale, AZ
- March 2        Transcatheter Ultrasound Angioplasty Theory, Experimental Studies and Clinical Results. Transcatheter Therapeutics VIII, Washington, D.C.
- April 19        Aortic Disease: State of the Art. Echocardiography 4th Annual Echo Conference. Good Samaritan Hospital, Los Angeles, CA
- May 1          Echocardiography in the diagnosis of cardiac tamponade and guiding pericardiocentesis. Sixteen Congress of the Argentinean Federation of Cardiology, Cordoba, Argentina
- May 2          Diagnostic intravascular ultrasound imaging in coronary artery disease. Sixteen congress of the Argentinean Federation of Cardiology, Cordoba, Argentina
- May 2          TEE evaluation of the aortic valve. Sixteen Congress of the Argentinean Federation of Cardiology, Cordoba, Argentina
- May 2          Dobutamine for the assessment of myocardial viability. Sixteen Congress of the Argentinean Federation of Cardiology, Cordoba, Argentina
- May 18         Pregnancy and Heart Disease. Medical Complications of Pregnancy. First Annual Maternal-Fetal Medicine Symposium. Cedars-Sinai Medical, Los Angeles, CA
- May 24         The study of the vascular remodeling by intravascular ultrasound. Scientific Symposium Honoring Dr. John Michael Criley. Harbor-UCLA Medical Center, Torrance, CA

**1996**

- June 12         Pregnancy and Heart Disease. Obstetrics & Gynecology Department, Cedars-Sinai Medical Center, Los Angeles, CA
- July 10         Ultrasound Thrombus Dissolution. Fifth Meeting of European Society of Sonochemistry, Cambridge University, Cambridge, England
- September 18-20 The Society for Minimally Invasive Therapy 8th Annual International Meeting. The Role of Intraluminal Ultrasound Imaging in Coronary Artery Disease, Milan, Italy.
- November 30-    Ultrasound Angioplasty. The First International Symposium On Advances in Cardiology,  
December 1      Taipei, Taiwan

- February 9-13 Differential patterns of vascular remodeling in De Novo stenosis and restenosis in native coronary arteries and in the wall of saphenous vein bypass grafts. International Congress X Endovascular Interventions, Scottsdale, AZ
- April 18 Intraoperative Echocardiography. The Fifth Annual Echocardiography Course. Good Samaritan Hospital, Los Angeles, CA
- May 5 Intravascular Ultrasound Imaging - Lessons learned about remodeling in de novo, post-PTCA and post-SVG lesions. New Horizons in Cardiovascular Intervention. San Francisco Heart Institute, San Francisco, CA
- May 7 Ultrasound Angioplasty: Experimental and Clinical Update. New Horizons in Cardiovascular Intervention. San Francisco Heart Institute, San Francisco, CA
- May 16 Intraoperative Echocardiography. Cardiology Grand Rounds. Harbor-UCLA Medical Center, Torrance, CA
- June 17 Transcutaneous Ultrasound for Clot Dissolution. American Society of Echocardiography, Orlando, FL
- September 27 Ultrasound Angioplasty: A device for all season? Thrombus, Atheroma and total Occlusions. Transcatheter Cardiovascular Therapeutics (Ninth annual symposium), Washington, D.C.

**1997**

- October 7 TEE and Doppler Echocardiography. West Coast Cardiovascular Review Course for Cardiology. Cedars-Sinai Medical Center, Los Angeles, CA
- October 16-18 Ultrasound Angioplasty: A device for Coronary Thrombus and/or Total Occlusions. Coronary Interventions: 1997. Scripps Clinic, La Jolla, California

**1998**

- February 8-12 Transcutaneous Ultrasound is Effective as an Adjunctive Therapy for Thrombus Dissolution: An In Vivo Study. International Congress XI Endovascular Interventions, Scottsdale, AZ
- March 4 Stable Angina Pectoris. 10th Annual Symposium in Cardiology, 1998. Loma Linda International Heart Institute, Loma Linda, CA

- March 4 Coronary Artery Remodeling. 10th Annual Symposium in Cardiology, 1998. Loma Linda International Heart Institute, Loma Linda, CA
- March 18 Therapeutic Ultrasound for Clot Dissolution. Los Angeles Society of Echocardiography, Cedars-Sinai Medical Center, Los Angeles, CA
- March 24 Medical Diagnostics and Noninvasive Treatments Using Ultrasonics. The American Society for Nondestructive Testing, Inc. 9th Asia-Pacific Conference, Anaheim, CA
- May 13 Role of Echocardiography for the Stroke Patient. Stroke for the Primary Care Physician: Multidisciplinary Perspectives. American Heart Association-Los Angeles Affiliate. Good Samaritan Hospital, Los Angeles, CA
- June 12 Therapeutic ultrasound. American Society of Echocardiography. San Francisco, CA
- September 16 Benefits and Detriments of Diet Drugs. American Heart Association 1998 Fall Symposium, Los Angeles, CA
- October 10 Catheter-Delivered Therapeutic Ultrasound for Chronic total Coronary Occlusions. Transcatheter Cardiovascular Therapeutics (10<sup>th</sup> Annual Symposium), Washington, D.C.
- December 4 Coronary Arterial Remodeling. 6<sup>th</sup> Intracardiovascular Imaging Meeting, Tokyo, Japan

**1999**

- February 3 Pacing: A well tolerated, rapid and accurate method, Los Angeles Society of Echocardiography, Los Angeles, California
- February 10 Therapeutic Ultrasound for Guidewire resistant chronic total coronary occlusions. International Congress X "Endovascular Interventions", Scottsdale, Arizona
- June 16 Ultrasound Thrombolysis. American Society of Echocardiography, Washington, D.C.

**2000**

- March 11 Noninvasive transthoracic low frequency ultrasound greatly augments thrombolysis in a canine model of acute myocardial infarction. American College of Cardiology 49<sup>th</sup> Annual Scientific Session, Anaheim, California.
- April 11 Stress Echo with Transesophageal Pacing. 11<sup>th</sup> ICDS Congress, Santiago, Chile
- April 12 Ultrasound in Thrombolytic treatments? 11<sup>th</sup> ICDS Congress, Santiago, Chile
- April 14 Stress Echo with Transesophageal Pacing, 11<sup>th</sup> ICDS Congress, Buenos Aires, Argentina

- April 15      Ultrasound in Thrombolytic treatments? 11<sup>th</sup> ICDS Congress, Buenos Aires, Argentina
- April 27      Resolution of Dilated Cardiomyopathy and Utility of Dobutamine to Predict Prognosis. Cardiology 2000 Conference, Vienna, Austria
- April 29      Pacing Stress Echocardiography. Cardiology 2000 Conference, Vienna, Austria
- June 12      Symposium Chair on Echo and Infective Endocarditis. American Society of Echocardiography, Chicago, Illinois
- August 26      De novo atherosclerotic remodeling: mechanisms and clinical relevance. Symposium Arterial Remodeling: Mechanisms and Interventions, Amsterdam, Netherlands
- October 5      Present indications for mitral valve surgery. Controversies in Adult Cardiac Surgery, Los Angeles, California
- October 18      Implications of remodeling on the development of symptomatic atherosclerosis and restenosis – Insights from IVUS. Transcatheter Cardiovascular Therapeutics – The Twelfth Annual Symposium. Washington Convention Center, Washington, D.C.

**2001**

- May 18      Eighth Annual Symposium of New Developments in Therapeutic Ultrasound, Los Angeles Society of Echocardiography, Good Samaritan Hospital, Los Angeles, California.
- September 3      Therapeutic ultrasound as adjuvant therapy for angioplasty and thrombolysis. The European Society of Cardiology – XXIII Congress. Stockholm, Sweden
- October 5      Indications for mitral valve surgery at controversies in adult cardiac surgery. Controversies in Adult Cardiac Surgery. Sponsor, Alfredo Trento, M.D., Director, Cardiac Surgery, Cedars-Sinai Medical Center. Century City, California.

**2002**

- February 28      Update in Echocardiography. Save-A-Heart Foundation Community Health Symposium. Los Angeles, California
- April 5      Lessons learned about coronary atherosclerosis from IVUS. Third Annual Monterey County Heart Symposium "State of the Art Lipid Management". Monterey, California
- June 10      Ultrasound Thrombolysis. American Society of Echocardiography's 13<sup>th</sup> Annual Symposium. Orlando, Florida

**Robert J. Siegel, M.D.**

24

- June 15 "What echocardiography can do for stroke evaluation." Update on Stroke, Los Angeles, California
- July 30 Ultrasound as an adjunct for thrombolysis. Second International Symposium on Therapeutic Ultrasound. Seattle, Washington
- September 27 TIMI-3 – Therapeutic external ultrasound to enhance thrombolytic efficacy. . Transcatheter Cardiovascular Therapeutics – The Fourteenth Annual Symposium. Washington Convention Center, Washington, D.C.
- October 4-5 The echocardiographic assessment of mitral valve. Controversies in Adult Cardiac Surgery. Sponsor, Alfredo Trento, M.D., Director, Cardiac Surgery, Cedars-Sinai Medical Center. Century City, California
- November 7 Therapeutic Ultrasound, Cardiology Grand Rounds, Visiting Professor, University of Texas – Medical Branch, Galveston, Texas
- November 7 IVUS Assessment of Atherosclerosis, Visiting Professor, Noon lecture, University of Texas – Medical Branch, Galveston, Texas

**2002**

- December 6 Presidential Lecture, The State of the ACC. The New Wave in Cardiology. Thirteenth Annual Update, American College of Cardiology, Dana Point, California
- December 7 Echocardiography – After 30 years, is There Anything New? The New Wave in Cardiology. Thirteenth Annual Update, American College of Cardiology, Dana Point, California

**2003**

- January 26 Clinical Decision Making in MR. The Second Postgraduate Course on Techniques in Mitral Valve Echocardiography. Mitral Valve Repair XII, Cedars-Sinai Medical Center, Los Angeles, California
- January 27 Significant Mitral Valve Regurgitation: Which Indexes? The Second Postgraduate Course on Techniques in Mitral Valve Echocardiography. Mitral Valve Repair XII, Cedars-Sinai Medical Center, Los Angeles, California
- January 27 Importance of Early Surgical Indication and Pre-Operative Left Ventricular Function on Surgical Results in Patients with Mitral Valve Regurgitation. The Second Postgraduate Course on Techniques in Mitral Valve Echocardiography. Mitral Valve Repair XII, Cedars-Sinai Medical Center, Los Angeles, California



- October 2 Mitral Valve Repair: Which Patient and When? Controversies in Adult Cardiac Surgery. The Third in the Series. Fairmont Miramar Hotel, Santa Monica, California.
- October 11 Treatment of Asymptomatic Valve Disease. 71<sup>st</sup> Annual Fall Symposium: Cardiology and Stroke 2003 - An Update on Diagnosis and Therapy. Hyatt Regency, Los Angeles, California.
- October 22 Evaluation of Mitral Regurgitation and Surgical Indications. California Pacific Medical Center, Cardiology Grand Rounds, San Francisco, California.
- October 29 Therapeutic Ultrasound. Plenary Lecture 50<sup>th</sup> Anniversary Edler-Hertz Meeting, Lund, Sweden

**2004**

- February 20 Aortic Dissection: Prevention, Detection and Correction. Internal Medicine Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California
- February 26 Aortic Dissection: Prevention, Detection and Correction. Surgery Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California
- March 27 Therapeutic Ultrasound. Japanese Circulation Society Plenary Lecture, Tokyo, Japan
- March 28 Hand-carried Cardiac Ultrasound. Japanese Circulation Society, Tokyo, Japan
- March 29 Update on Therapeutic Ultrasound. Japanese Cedars-Sinai Alumni Association, Tokyo, Japan
- May 13 Aortic Dissection. Emergency Department Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, California
- July 9 of Patients with Marfan Syndrome. Marfan Syndrome Symposium, Beverly Hills, California
- October 1 New Applications and Future Developments in Cardiac Ultrasound. The 3<sup>rd</sup> Annual Symposium: The Cutting Edge Cardiology for the Future. Memorial Heart & Vascular Institute, Long Beach, California
- October 10 Vascular Disease in Women: Focus on Aortic Dissection. Patients, Policies, and Politics: Cardiovascular Medicine in California Women's Health Symposium. American College of Cardiology

**2005**

- July 22 Therapeutic ultrasound in cardiovascular disease, Caribbean Cardiac Society 20<sup>th</sup> Caribbean Cardiology Conference. Key Biscayne, Florida

**Robert J. Siegel, M.D.**

26

- July 28 Transesophageal echo for the evaluation of the stroke patient, Transesophageal Echocardiography Course, Tyumen Cardiology Center, Tyumen, Russia
- July 29 Use of transesophageal echoes to evaluate valvular heart disease, Course Co-Director for Transesophageal Echocardiography Course, Tyumen Cardiology Center, Tyumen, Russia
- October 6 Use of echocardiography in the catheterization laboratory and in the operating room, Controversies in treatment of cardiovascular Disease Symposium, Santa Monica, CA
- October 27 Visiting Professor, Therapeutic Ultrasound in Cardiovascular Disease, Cardiology Grand Rounds, New York University, New York, N.Y.
- November 16 Visiting Professor, Noninvasive Therapeutic Ultrasound in Cardiovascular Disease, J. Michael Criley Lecturership, Medical Grand Rounds, Harbor-UCLA Medical Center, Carson, Ca

**2006**

- April 24 TEE on Stroke, Shanghai East Hospital, Tong Ji University, Shanghai, China
- April 24 Ultrasound Enhanced Thrombolysis, Chongqing University Medical Sciences, Chongqing, China
- June 27 TEE in Patients with Stroke, Los Angeles Society of Echocardiography, Cedars-Sinai Medical Center, Los Angeles, California
- October 5 Session IV: Treatment of Valvular Heart Disease, Lecture, "The Timing of Mitral Valve Surgery: Should the Guidelines Change?", Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Los Angeles, California

**2007**

- February 22 Optimal Timing of Mitral Valve Surgery: A Medical Opinion. Providence Saint Joseph Medical Center, Burbank, California
- March 13 Cardiology Grand Rounds. Optimal timing of surgery in mitral regurgitation. Harbor UCLA, Torrance, California.
- March 22 Medical Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California
- October 4 Hypertrophic Cardiomyopathy: Septal ablation is now the standard of care. Session VII. Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Beverly Hills, California

- October 4 Mitral Regurgitation: Medical treatment. Session VII: Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Beverly Hills, California
- October 6 Rewards of a Career in Academic Medicine. Annual Fellows in Training Symposium, California Chapter of the American College of Cardiology, Beverly Hills Hotel, Beverly Hills, California

**2008**

- February 13 Microcirculatory and vasodilatory effects of ultrasound. Oregon Health & Science University. Portland, Oregon
- February 14 New Paradigms in the Management of Mitral Regurgitation. American Society of Echocardiography 2008, San Diego, CA
- February 16 Cardiac Catheterization and Invasive Hemodynamics: Is it Necessary? American Society of Echocardiography 2008, San Diego, CA
- February 16 Why does valve disease not get treated? American Society of Echocardiography 2008, San Diego, CA
- February 17 Echo Doppler Measurements of Mitral Regurgitation. American Society of Echocardiography 2008, San Diego, CA
- February 17 My unforgettable valve case because it taught me... American Society of Echocardiography 2008, San Diego, CA
- February 17 Case 1: Chronic severe asymptomatic non-ischemic mitral regurgitation. American Society of Echocardiography 2007, San Diego, CA
- February 20 Management of Mitral Regurgitation. 14<sup>th</sup> Annual Cardiology Symposium. Woodland Hills, California
- February 20 What measurements should we make in the echo laboratory. 14<sup>th</sup> Annual Cardiology Symposium. Woodland Hills, California
- April 19 Percutaneous valve replacement and repair. Harbor-UCLA, Torrance, California
- April 27 Prostate Cancer and Cardiovascular Disease. Prostate Cancer Foundation. Beverly Hills, California
- June 4 Evolving paradigms in the treatment of Mitral Regurgitation. American Society of Echocardiography. Lincolnshire, IL

- June 9 Echocardiography Directed Appropriate Replacement. ASE Scientific Sessions, Toronto, Canada
- June 10 Hypertrophic/Infiltrative Heart Disease. ASE Scientific Sessions, Toronto, Canada
- July 4 Management of Cardiovascular Disease. First International Sonothrombolysis Conference, Heidelberg, Germany.
- September 4 Are we under-treating mitral valve regurgitation or optimal treatment for mitral valve regurgitation? Series VIII: Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Beverly Hills Hotel, Beverly Hills, California
- September 5 Are we under-treating aortic stenosis or optimal treatment of aortic stenosis? Series VIII: Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Beverly Hills Hotel, Beverly Hills, California
- September 6 A career in academic medicine. Series VIII: Controversies and Advances in the Treatment of Cardiovascular Disease, Cedars-Sinai Medical Center, Beverly Hills Hotel, Beverly Hills, California
- Sept 27 Real time transesophageal three-dimensional echocardiography. 4th Annual Cardiac Symposium, Upland, California
- Oct 14 Echocardiography in the Interventional Setting: A team effort (Sponsored by the American Society of Echocardiography). TCT Symposium, Washington, DC
- Oct 15 The role of Live 3D TEE in guiding interventions in the cardiac catheterization laboratory. Roundtable Discussion. Philips Healthcare, Washington, DC
- Nov 25 Live 3D-Dimensional TEE, Cardiology Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California
- Dec 10 Live 3-Dimensional Transesophageal Echocardiography. Los Angeles Society of Echocardiography, Cedars-Sinai Medical Center, Los Angeles, CA

**2009**

- Mar 28 Percutaneous Mitral Valve Repair (Complication). E3 2009-Essential Echocardiography with Experts. American Society of Echocardiography Conference. Orange County Convention Center, Orlando, Florida
- Mar 30 Assessment of the Mitral Valve Prior to Transcatheter Intervention for MR. i2.Imaging for Structural Heart Disease Interventions. American College of Cardiology Conference. Orlando, Florida

- Apr 30           Pregnancy in patients with Heart Disease. Wise Women Village Project, CME Project. Saipan
- May 2            Management of Valvular Heart Disease. For Wise Women Village Project, CME Conference. Saipan
- June 10          Paradise Lost and Found: An echocardiographic adventure to Saipan. Cardiology Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, California
- July 14          Echocardiography – Made Simple. Department of Medicine Noon Conference - Cardiology Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, California
- August 28        Valvular Heart Disease – An Update. Department of Medicine Noon Conference - Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, California
- September 16    Echo in the ICU. Pulmonary/Critical Care Medicine Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, California
- October 2        Echo in Cardiac Intervention – the 5<sup>th</sup> Dimension. Controversies and Advances in the Treatment of Cardiovascular Disease: The Ninth in the Series, Cedars-Sinai Medical Center, Beverly Hills Hotel, Beverly Hills, California

**2010**

- Feb 1            Live 3D Transesophageal Echo. Cardiology Grand Round. Harbor-UCLA Medical Center, Carson, California
- Feb 18          Live 3D Transesophageal Echo – a new window into the heart or Avatar comes to Cardiology. Providence Saint Joseph Medical Center, Burbank, CA
- March 13        Left atrial/Left atrial appendage SEC/Sludge/Thrombus. E3 2010 Essential Echocardiography with Experts at ASE - Integrated Imaging of Cardiovascular Interventions. 2010 American College of Cardiology Scientific Session. Atlanta, Georgia.
- March 13        Echo of left atrial appendage closure. E3 2010 Essential Echocardiography with Experts at ASE - Integrated Imaging of Cardiovascular Interventions. 2010 American College of Cardiology Scientific Session. Atlanta, Georgia.
- March 15        Live 3D TEE during Cardiac Intervention-ACC 3D CV Theater-Hybrid Suite. 2010 American College of Cardiology Scientific Session. Atlanta, Georgia.
- March 15        Interventional echo – surgical/percutaneous mitral valve repair. ACC 3D 2010 American College of Cardiology Scientific Session. Atlanta, Georgia.

- April 19      Role of TEE in Transcatheter Aortic Valve Replacement 29<sup>th</sup> Advanced Echo Course. Hoag Heart Valve Center, Huntington Beach, CA
- April 19      Role of TEE in E-valve mitral clip for mitral regurgitation. 29<sup>th</sup> Advanced Echo Course. Hoag Heart Valve Center, Huntington Beach, CA
- April 19      Role of TEE in percutaneous mitral balloon valvoplasty. 29<sup>th</sup> Advanced Echo Course. Hoag Heart Valve Center, Huntington Beach, CA
- April 20      Role of Echo in Alcohol Septal Ablation – Case Based Presentation. 29<sup>th</sup> Advanced Echo Course. Hoag Heart Valve Center, Huntington Beach, CA
- April 21      Catheter based solutions; Interaction with echo – ASD closure, plugging paravalvular regurgitation, appendage occlusion, etc. 29<sup>th</sup> Advanced Echo Course. Hoag Heart Valve Center, Huntington Beach, CA
- May 27-29     3D Echo imaging for procedures. Brazilian Echocardiography Congress. Rio De Janiero, Brazil
- May 27-29     3D Echo evaluation of mitral valve. Brazilian Echocardiography Congress. Rio De Janiero, Brazil
- June 14      Percutaneous mitral valve procedures. American Society of Echocardiography. San Diego, California
- June 14      3D TEE during interventions. American Society of Echocardiography. San Diego, California
- June 14      Echo in the Cath Lab. Imaging Village. ASE 2010 - 21<sup>st</sup> Annual Scientific Sessions. San Diego, California
- July 7-10     Use of 3D Echo to identify patients for MitraClip. Congress on Congenital and Structural Interventions. Frankfurt, Germany
- July 7-10     Benefits of Live 3D Echo during MitraClip procedures. Congress on Congenital and Structural Interventions. Frankfurt, Germany
- July 17      Pre-selection of patients and guidance of percutaneous valve replacement. Pediatric and Adult Interventional Symposium. Chicago, Illinois
- July 17      Left atrial appendage closure pre-selection. Pediatric and Adult Interventional Symposium. Chicago, Illinois

- Sept 22 Does 3D Echo Improve Diagnosis and Clinical Decision-making in MR? The Valvular Heart Disease Summit (Part 2): Mitral Valve Therapies. TCT2010 Conference. Washington, D.C.
- Sept 22 Uses of 2D and 3D Echocardiography During Transcatheter Mitral Valve Therapies. The "Brave New World" of Non-Invasive Imaging for the Interventionalist: CT, MRI, PET and Echo. TCT2010 Conference. Washington, D.C.
- Sept 24 Case Presentations: Imaging in Successful and Unsuccessful Mitral Clip Cases. Imaging Guidance for Transcatheter Mitral Repair I: the Mitral Clip. TCT2010 Conference. Washington, D.C.
- Sept 24 Complications of Mitral Clip Cases. Imaging Guidance for Transcatheter Mitral Repair I: the Mitral Clip. TCT2010 Conference. Washington, D.C.
- Oct 8 Perspective from the Echocardiographers. Controversies and Advancement in the Treatment of Cardiovascular Disease. Montage Beverly Hills. Beverly Hills, CA
- Nov 12 Echocardiographic Assessment of Valvular Heart Diseases - 2D and 3D Assessment. Problem Solving in Cardiac Surgery. Edwards Lifesciences Cardiac Fellows Program. Irvine, CA
- Nov 16 Imaging in Percutaneous Mitral Valve Therapy. American Heart Association 2010 Scientific Sessions. Chicago, IL
- Nov 30 Role of Echo in Interventional Cardiology. American Hospital, Istanbul, Turkey.
- Dec 6 Role of TEE in mitral valve repair with the MitraClip system. 5<sup>th</sup> Annual Congress of the Israel Heart Society. Tel Aviv, Israel
- Dec 6 Treatment of mitral regurgitation evolving paradigms – Emphasis on MitraClip. Tel Aviv Medical Center. Tel Aviv, Israel.
- 2011**
- Jan 29 Update on Percutaneous Mitral Valve Therapy. Heart Failure 2011 Conference. USC Keck School of Medicine. Los Angeles, CA
- Apr 4 Assessment of Mitral Valve for Selection of Percutaneous Strategies. Session #2616, Presentation #2616-4. I2 Symposium: Imaging Before, During, and After Mitral Valve Procedures. 2011 American College of Cardiology Scientific Session. New Orleans, LA.
- Apr 4 Value of 3D TEE in the Cath Lab. Session #2622. Presentation #2622-5. I2 Symposium: Imaging Before, During, and After Mitral Valve Procedures. 2011 American College of Cardiology Scientific Session. New Orleans, LA.

- Apr 5            Interventional Echocardiography: A Guide to Procedural Success in the Cath Lab and OR. Session #0672. Presentation #0672-9. I2 Symposium: Advances in Echocardiography. 2011 American College of Cardiology Scientific Session. New Orleans, LA.
- Apr 16           Echocardiography for the pre-evaluation as well as guidance of transcatheter aortic valve replacement. Los Angeles Society of Echocardiography. Good Samaritan Hospital, Los Angeles, CA
- April 16          Echocardiography for the pre-evaluation as well as guidance of transcatheter mitral valve repair. Los Angeles Society of Echocardiography. Good Samaritan Hospital, Los Angeles, CA
- June 6            Imaging Selection for MitraClip patient selection and procedural guidance: A Case-based tutorial. Transcatheter Valve Therapies (TVT). Vancouver, Canada
- June 20          Hypertrophic Cardiomyopathy. 10th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 21          Atrial Septal Defect. 10th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 22          Mitral Regurgitation. 10th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 23          Aortic Stenosis. 10th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- July 15           Mitral Valve Disease: Diagnosis and Treatment. Cardiology Update 2011. Torrance Memorial Hospital, Torrance, California.
- July 24           Perivalvular Leaks. Pediatric and Adult Interventional Cardiac Symposium (PICS/AICS), Boston, MA
- July 24           Percutaneous mitral valve repair, screening and echo guidance. Pediatric and Adult Interventional Cardiac Symposium (PICS/AICS), Boston, MA
- October 13       Debate: CT is more accurate than echo for aortic annular assessment in patients undergoing transcatheter aortic valve replacement. Controversies and Advances in the Treatment of Cardiovascular Disease: The Eleventh in the Series, Cedars-Sinai Medical Center, Beverly Hills Hotel, Beverly Hills, California
- October 14       Role of echocardiography in interventional cardiology: Future of structural heart disease. Cardiology Grand Rounds. Texas Heart Institute, Houston, Texas



- November 3 Low frequency therapeutic ultrasound causes vasodilation and enhanced tissue perfusion. 162<sup>nd</sup> Meeting of the Acoustical Society of America. San Diego, California
- November 8 Left atrial appendage closure: Indications, Devices, and Techniques. Transcatheter Cardiovascular Therapeutics (TCT) 2011. San Francisco, California
- November 8 The valvular heart disease summit (Part 2): Mitral Valve Therapies. Transcatheter Cardiovascular Therapeutics (TCT) 2011. San Francisco, California
- November 9 Next generation transcatheter mitral valve therapies. Transcatheter Cardiovascular Therapeutics (TCT) 2011. San Francisco, California
- December 4 Management of the Mitral Valve Patient. Kaiser Permanente 13<sup>th</sup> Annual (COAST) Conference. Huntington Beach, CA
- December 4 What's New in Echocardiography? Kaiser Permanente 13<sup>th</sup> Annual (COAST) Conference. Huntington Beach, CA

**2012**

- February 3 Assessing the mitral valve before and during percutaneous repair: What does the operator need to know? Structural Heart Intervention and Imaging Conference. Scripps Clinic. LaJolla, California
- March 9 Mitral regurgitation devices. XVII World Congress of Echocardiography and Allied Techniques. Sao Paulo, Brazil.
- March 9 Imaging methods during therapeutic procedures. XVII World Congress of Echocardiography and Allied Techniques. Sao Paulo, Brazil.
- March 26 Patient selection for TAVR: Role of Echocardiography. ACC.12 Conference. Chicago, Illinois
- April 8 Transesophageal Echocardiography: Past, Present and Future. University 10<sup>th</sup> Anniversary of Echocardiography. Seoul, Korea
- April 16 Intra-procedural imaging for TAVR. Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS). Rush University Medical Center. Chicago, Illinois
- July 19 Timing, Indication, and Guidelines for Mitral Valve Repair. 2012 Rocky Mountain Valve Symposium. Missoula, Montana
- July 20 Echo Evaluation for Percutaneous Mitral Valve Repair. 2012 Rocky Mountain Valve Symposium. Missoula, Montana

- September 22 DEBATE: Asymptomatic Severe Mitral Regurgitation Should Be Treated Conservatively. Controversies and Advances in the Treatment of Cardiovascular Disease: The Twelfth in the Series. Beverly Hills, California
- October 23 No: Changing Standards Would Be Premature! TCT Conference. Miami, Florida
- October 24 Patient selection for the MitraClip. Clinical vs. Anatomic Considerations, and Diagnosis of "Severe" MR. TCT Conference, Miami, Florida
- October 25 Reconciling Discordance between Echo and CT in TAVR. TCT Conference. Miami, Florida
- November 6 Transcatheter prosthetic valve regurgitation repair. Cardiovascular seminar entitled "Interventional Cardiovascular Imaging in Structural Heart Disease". American Heart Association, Los Angeles, California.

**2013**

- February 22 Imaging and Decision Making in Management and Treatment of Patients with Hypertrophic Cardiomyopathy, Scripps Clinic, La Jolla, California
- February 22 Echocardiographic Diagnosis of Severe MR; Quantitation, Classification and Accuracy, Scripps Clinic, La Jolla, California
- March 9 How to Guide/Assess Trans-Catheter MV Clip Procedure (Control# 2967) in a Symposium entitled Integrated Imaging of Devices and Interventions. ACC.13, San Francisco, California.
- March 9 Critical Role of Echo in Selecting Patients for Percutaneous Mitral Repair (MitraClip) (Control#7128) in a Symposium entitled Imaging Transcatheter Mitral Valve Procedures: MitraClip and Beyond TCT@ACC-i2, San Francisco, California
- March 10 Percutaneous Mitral Valve Repair: What the Imager Needs to Know (Control# 5886) in a Symposium entitled Joint Multimodality Imaging Symposium II of the ASE/ASNC/SCCT/SCMR and the American College of Cardiology: Imaging for Catheter Base Intervention for Structural Heart Disease. ACC.13, San Francisco, California
- March 10 TCT@ACC-i2 Co-Chair (Control#7068) in a Symposium entitled Controversies in Imaging for TAVR. TCT@ACC-i2, San Francisco, California
- March 11 Echocardiography to Diagnose Complications: Assessment after Deployment (Control# 7040) in a Symposium entitled Understanding the Role of Echo in TAVR: What the Echocardiographer Needs to Know. TCT@ACC-i2, San Francisco, California.

- April 1            Role of Echo in Interventional Cardiology. Harbor UCLA, Cardiology Grand Rounds, Carson, California
- May 29            Understanding the Role of Echo in TAVR. 31<sup>st</sup> Congreso Nacional De Cardiologia De FACR, Rosario, Argetina
- May 30            Mitral Regurgitation - Post TAVR. 31<sup>st</sup> Congreso Nacional De Cardiologia De FACR, Rosario, Argetina
- May 30            MitraClip in Patients with Severe MR: Emphasis on Functional MR. 31<sup>st</sup> Congreso Nacional De Cardiologia De FACR, Rosario, Argetina
- June 17           Echocardiographic Findings in Aortic Stenosis and Discrete Subaortic Stenosis. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 17           3D Echo in Mitral Stenosis. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 17           Unusual Cases of Mitral Regurgitation. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 17           Acute and Chronic Aortic Regurgitation. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 18           Echo in Assessing TAVR Complication. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 18           Guiding Procedures for Left Atrial Occlusion by Echo. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 19           Echo Artifacts. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 19           Pericardial Diseases. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- June 20           Echo in the Assessment of Heart Failure. 12th International Echocardiography Today and Tomorrow Symposium, St. Wolfgang, Austria
- July 31            Tribute to Dr. Rimoin and New Advances for Treatment of Marfan Syndrome. National Marfan Symposium. Cedars-Sinai Medical Center, Los Angeles, California
- October 28        No! We Are Not Yet Ready to Take That Leap. TCT Conference, San Francisco, California.

- October 30 The Model for Interventional Echocardiography: TAVR. TCT Conference, San Francisco, California.
- October 30 Atypical MitraClip Candidates: What is Possible?. TCT Conference, San Francisco, California.
- November 1 Disease of the Aorta: Marfan Syndrome and Connective Tissue Disorders. Baptist Health South Florida 32<sup>nd</sup> Annual Echocardiography Symposium, Miami, Florida
- November 1 The Role of Echo in TAVR: Guidance, Complications and Outcomes. Baptist Health South Florida 32<sup>nd</sup> Annual Echocardiography Symposium, Miami, Florida
- November 2 Mitral Aortic Regurgitation: Grading and Timing of Intervention. Baptist Health South Florida 32<sup>nd</sup> Annual Echocardiography Symposium, Miami, Florida
- November 20 Mitral Regurgitation in Severe Aortic Stenosis: Mechanism and Implications for Surgical AVR and TAVR. American Heart Association Scientific Sessions Annual Meeting, Dallas, Texas.
- November 22 Anatomy and Pathophysiology of Mitral Regurgitation. Controversies and Advances in the Treatment of Cardiovascular Disease. The Thirteenth in the Series, The Beverly Hills Hotel, Beverly Hills, California

**2014**

- February 13 Mitral Regurgitation – Natural History and Indications for Intervention. Providence Saint Joseph Medical Center, Burbank, California
- March 12 Program Co-Chair. ACC Championing Care for the Patient with Aortic Stenosis. American College of Cardiology, SLS Hotel, Beverly Hills, California.
- March 12 The clinical diagnosis of aortic stenosis: when must we intervene?. ACC Championing Care for the Patient with Aortic Stenosis. American College of Cardiology, SLS Hotel, Beverly Hills, California.
- March 31 Acute Hemodynamic Emergencies. TCT@ACC-i2 Conference. Washington, D.C.
- March 31 Debate: Management of Hemodynamically Significant Pericardial Effusion – Catheter Drainage is Best. Scientific Session entitled “Management of Pericardial Disease”. 2014 ACC Scientific Sessions, Washington, D.C.
- March 31 Case of an Elderly Woman with Valvular Heart Disease and Congestive Heart Failure. 2014 TCT@ACC-i2, Washington D.C.

**Robert J. Siegel, M.D.**

37

- June 23 3D for Guiding Interventional Procedures. American Society of Echocardiography Scientific Sessions, Portland, Oregon
- June 23 Echo Versus CT in Planning and Guiding Intervention. American Society of Echocardiography Scientific Sessions, Portland, Oregon
- June 24 Echocardiography in MR. American Society of Echocardiography Scientific Sessions, Portland, Oregon
- June 24 Unique Insights from 3D Echo into Assessing Valve Function. American Society of Echocardiography Scientific Sessions, Portland, Oregon

**2015**

- February 5 Echocardiographic Evaluation and Guidance for TAVR. Scripps Structural Heart Intervention and Imaging 2015: A Practical Approach Conference. Scripps Health, San Diego, California
- February 6 Echocardiographic Evaluation of the LAA for Interventional Procedures. Scripps Structural Heart Intervention and Imaging 2015: A Practical Approach Conference. Scripps Health, San Diego, California
- March 14 Pre-Implantation Imaging for TAVR: The Enduring Role of Echo. American College of Cardiology 2015 Scientific Sessions. San Diego, California
- March 14 Lessons from the Frontlines: Mitral Valve Treatment Options. Topic, "Transcatheter Mitral Valve Repair: Indications to Worldwide Practice." American College of Cardiology 2015 Scientific Sessions. San Diego, California
- March 15 TCT@ACC-i2 Co-Chair (Control #6499) ACC Scientific Session entitled, Mitral Regurgitation: Approaches for Therapy. San Diego, California
- March 15 Secondary Mitral Regurgitation: Best and Worst Case Scenarios for Mitral Clip. American College of Cardiology 2015 Scientific Sessions. San Diego, California
- March 16 ACC Co-Chair (Control #13807) Special Session entitled, Featured Clinical Research II. San Diego, California

**PUBLICATIONS/BIBLIOGRAPHY:****Research Papers-Peer-Reviews**

- 1.) Venkataraman K, **Siegel RJ**, Kim SJ, Allen JW: Musical murmurs: An Echo-phonocardiographic study. AM J Cardiol 41:952, 1978

- 2.) **Siegel RJ**, Ginzton LE, Flanagan K, Criley JM: Marantic endocarditis: Diagnosis by 2-D echocardiogram. *Chest* 80:118, 1981
- 3.) **Siegel RJ**, Cabeen W, Roberts WC: Sinus node ganglionitis and neuritis in prolonged QT interval - ventricular tachycardia syndrome with sudden death from massive rapid weight loss utilizing the liquid-protein modified fast diet. *Am Heart J* 102:126, 1981
- 4.) **Siegel RJ**, French WJ, Roberts WC: Exercise (running) as an early unmasker of occult cardiac amyloidosis. *Arch Int Med* 142:345, 1982
- 5.) **Siegel RJ**, Roberts WC: Electrocardiographic observations in severe aortic valve stenosis: correlative necropsy study to clinical, hemodynamic, and ECG variables demonstrating relation of 12-lead QRS amplitude to peak systolic transaortic pressure gradient. *Am Heart J* 103:210, 1982
- 6.) Robert WC, **Siegel RJ**, Zipes DP: Origin of the right coronary artery from the left sinus of Valsalva and its functional consequences: Analysis of 10 necropsy patients. *Am J Cardiol* 49:863, 1982
- 7.) Ginzton LE, **Siegel RJ**, Criley JM: The natural history of tricuspid valve endocarditis: A two dimensional echocardiographic study. *Am J Cardiol* 49:1853, 1982
- 8.) **Siegel RJ**, Fishbein MC: Evaluation of fluorescence microscopy for the identification of necrotic myocardium. *Hum Pathol* 13:1091, 1982
- 9.) **Siegel RJ**, Guze PA, Beland K, Guze L, Criley JM: Two-dimensional echocardiographic findings in drug addicts. *J Cardiovasc Ultrasonography* 1:133, 1982
- 10.) Haywood LJ, Sharma OP, Siegel ME, **Siegel RJ**, Gottlieb SL, Caldwell J, Siemsen K: Detection of myocardial sarcoidosis by Thallium 201 imaging. *J Nat Med Assoc* 74:959, 1982
- 11.) Block MI, Said JW, **Siegel RJ**, Fishbein MC: Myocardial myoglobin following coronary artery occlusion: An Immunohistochemical study. *Am J Pathol* 111:374, 1983
- 12.) Herscher LL, **Siegel RJ**, Said JW, Edwalds GM, Moran MM, Fishbein MC: Distribution of LDH-1 in normal, ischemic and necrotic myocardium: An immunoperoxidase study. *Am J Clin Pathol* 81:198, 1984
- 13.) **Siegel RJ**, Said JW, Shell WE, Corson G, Fishbein MC: Identification and localization of creatine kinase B and M in normal and necrotic myocardium: An immunohistochemical study. *J Mol Cell Cardiol* 16:95, 1984
- 14.) **Siegel RJ**, Shah PK, Nathan M, Rodriguez L, Shell WE: Prostaglandin E-1 infusion in unstable angina: Effects on anginal frequency and cardiac function. *Am Heart J* 108:863, 1984

- 15.) Edwalds GM, Said JW, Block MI, Herscher LL, **Siegel RJ**, Shell WE, Fishbein MC: Myocytolysis (vascular degeneration) of myocardium: Immunohistochemical evidence of reversibility. *Hum Pathol* 15:733, 1984
- 16.) **Siegel RJ**, Shah PK, Fishbein MC: Idiopathic restrictive cardiomyopathy: A clinicopathological study of four cases. *Circulation* 70:165, 1984
- 17.) **Siegel RJ**, Edwalds G, Rej R, Fishbein MC: Distribution of cytosolic and mitochondrial aspartate aminotransferase in normal, ischemic and necrotic myocardium: An immunohistochemical study. *Lab Invest* 51:648, 1984
- 18.) **Siegel RJ**, O'Connor B, Mena I, Criley JM: Left ventricular function at rest and during Raynaud's phenomenon in patients with scleroderma. *Am Heart J* 108:1469, 1984
- 19.) Doherty NE, Ades A, Shah PK, **Siegel RJ**: Hypothermia as a consequence of acute myocardial infarction. *Ann Int Med* 101:797, 1984
- 20.) **Siegel RJ**, Fishbein MS, Said JW, Tokes Z, Shell WE: Localization of alpha-1 acid glycoproteins in human myocardium. *Lab Invest* 52:107, 1985
- 21.) Harold JG, **Siegel RJ**, Edwalds GM, Satoh P, Fishbein MC: Immunohisto-chemical location of 6-Keto-PGF1 -Alpha in canine coronary vasculature. *Prostaglandins* 29:19, 1985
- 22.) **Siegel RJ**, Swan K, Edwalds GM, Fishbein MC: Limitations of postmortem assessment of human coronary arterial size and luminal narrowing: differential effects of tissue fixation and processing on vessels with different degrees of atherosclerosis. *J Am Coll Cardiol* 5:342, 1985
- 23.) **Siegel RJ**, Criley JM, Comparison of ventricular emptying with and without a pressure gradient in patients with hypertrophic cardiomyopathy. *Br Heart J* 53:283, 1985
- 24.) **Siegel RJ**, Kligerman M, Haywood LJ, Shell WE: Increased MB-creatine kinase isoenzymes in an alcoholic population. *J Nat Med Assoc* 77:459, 1985
- 25.) Gilbert PL, **Siegel RJ**, Melmed S, Sherman CT, Fishbein MC: Cardiac morphology in rats with growth hormone-producing tumors. *J Mol Cell Cardiol* 17:805, 1985
- 26.) Moran M, **Siegel RJ**, Said J, Fishbein MC: Demonstration of myoglobin and CK-M in myocardium: Comparison of 5 fixation methods and 3 immunohistochemical techniques. *J Histochem Cytochem* 33:1110, 1985
- 27.) Doherty NE, **Siegel RJ**: Cardiovascular manifestations of systemic lupus erythematosus. *Am Heart J* 110:1257, 1985
- 28.) Criley JM, **Siegel RJ**: Has "obstruction" hindered our understanding of hypertrophic cardiomyopathy? *Circulation* 72:1148, 1985

- 29.) Denton TA, Litvack F, **Siegel RJ**: Pseudoinfarction in massive pulmonary embolism: Two case reports and a review of the literature. *Western J Med* 145:98, 1986
- 30.) Criley JM, **Siegel RJ**: Obstruction is unimportant in the pathophysiology of hypertrophic cardiomyopathy. *Postgraduate Med J* 62:515, 1986
- 31.) Little D, Said JW, **Siegel RJ**, Fealy M, Fishbein MC: Endothelial cell markers in vascular neoplasms: An immunohistochemical study comparing factor VIII-related antigens, blood group specific antigens, 6-Keto-PGF1 alpha, and ulex europaeus 1 lectin. *J Pathol* 149:89, 1986
- 32.) French WJ, **Siegel RJ**, Cohen AH, Laks MM: Yield of endomyocardial biopsy in patients with biventricular failure: Comparison of patients with normal versus reduced left ventricular ejection fraction. *Chest* 90:181, 1986
- 33.) Schiller VL, Fishbein MC, **Siegel RJ**: Unusual cardiac involvement in carcinoid syndrome. *Am Heart J* 112:1322, 1986
- 34.) Lopez JA, Fishbein MC, **Siegel RJ**: Echocardiographic features of nonbacterial thrombotic endocarditis. *Am J Cardiol* 59:478, 1987
- 35.) Lopez JA, Ross RS, Fishbein MC, **Siegel RJ**: Nonbacterial thrombotic endocarditis (NBTE). A review. *Am Heart J* 113:773, 1987
- 36.) **Siegel RJ**, Villa LC, Fishbein MC: Immunohistochemical localization of 6 Keto-P6F-I-alpha and P6E<sub>2</sub> in the human umbilical cord before and after labor. *Lab Invest* 56:550, 1987
- 37.) **Siegel RJ**, Fealy M, Edwalds G, Karagueuzian H, Fishbein MC: Immunohistochemical localization of procainamide in normal, ischemic, and necrotic canine myocardium during acute experimental myocardial infarction. *Am Heart J* 113:1383, 1987
- 38.) **Siegel RJ**, Fishbein MC: Detection of endocardial calcium in endomyocardial fibrosis by computed tomography. *Am J Cardiol* 60:420, 1987
- 39.) Carter RS, **Siegel RJ**, Chai AU, Fishbein MC: Immunohistochemical localization of apolipoprotein A-I and B in human carotid arteries. *J Pathol* 153:31, 1987
- 40.) Roberts WC, **Siegel RJ**, McManus BM: Idiopathic dilated cardiomyopathy: Analysis of 152 necropsy patients. *Am J Cardiol* 60:1340, 1987
- 41.) Maddahi J, Ostrzega E, Crues J, **Siegel RJ**, Friedman J, Berman DS: Rapid dynamic cardiac magnetic resonance imaging for evaluation of valvular insufficiency. *Dyna Card Imag* 1:55-61, 1987
- 42.) Harold JG, **Siegel RJ**, FitzGerald GA, Satoh P, Fishbein MC: Differential prostacyclin production by human umbilical vasculature. *Arch Pathol Lab Med* 112:43, 1988



- 43.) Doherty NE, Feldman G, Maurer G, **Siegel RJ**: Echocardiographic findings in systemic lupus erythematosus. *Am J Cardiol* 61:1144, 1988
- 44.) **Siegel RJ**, Fishbein MC, Forrester J, Moore K, DeCastro E, Daykhovsky L, DonMichael TA: Ultrasonic plaque ablation: A new method for recanalization of partially or totally occluded arteries. *Circulation* 78:1443-1448, 1988
- 45.) **Siegel RJ**, Fishbein MC, Said JW, Fealy M, Chai A, Rubin SA, Melmed S: Identification of growth hormone at the myocardial cell surface. *AM J Cardiovasc Pathol* 2:345-350, 1989
- 46.) **Siegel RJ**, Ariani M, Forrester JS, Hashemi Z, DeCastro E, DonMichael TA, Fishbein MC: Cardiovascular applications of Therapeutic Ultrasound. *J Invasive Cardiol* 4:219-229, 1989
- 47.) **Siegel RJ**, Cumberland DC, Myler RK, DonMichael TA: Percutaneous ultraasonic angioplasty: Initial clinical experience. *Lancet*, 8666:II; 772, 1989
- 48.) **Siegel RJ**, DonMichael TA, Fishbein MC, Bookstein J, Adler L, Reinsvoldt T, DeCastro E, Forrester J: In vivo ultrasound arterial recanalization. *JACC* 15:345-351, 1990
- 49.) **Siegel RJ**, Bessen M, Chae JS, Potkin BN, Coll G, Fishbein MC, Helfant RH: Intravascular ultrasound cross-sectional arterial imaging. *Echocardiography* 7:179-192, 1990
- 50.) **Siegel RJ**, Fishbein MC, Chae JS, Helfant RH, Hickey A, Forrester JS: Comparison of angiography and ultrasound in the evaluation of arterial disease. *Echocardiography* 7:495-502, 1990
- 51.) Hong AS, Chae JS, Dubin SB, Lee S, Fishbein MC, **Siegel RJ**: Ultrasonic clot disruption: An in vitro study. *Am Heart J* 120:418-422, 1990
- 52.) **Siegel RJ**, Cumberland DC, Myler RK, Belli A, DonMichael TA: Percutaneous peripheral ultrasonic angioplasty: Results of the first pilot study and follow-up. *Herz* 15:329-334, 1990
- 53.) **Siegel RJ**, Chae JS, Forrester JS, Ruiz CE: Angiography, angiography and ultrasound imaging before and after percutaneous balloon angioplasty. *Am Heart J* 120:1986-1090, 1990
- 54.) Coll GE, Shah PK, **Siegel RJ**: Cinefluoroscopy of the aortic valve: An accurate noninvasive method for assessing critical aortic stenosis in the elderly. *J Invasive Cardiol* 120:1086-1090, 1990
- 55.) Coy KM, Park JC, **Siegel RJ**: Intravascular ultrasound imaging: From experimental studies to clinical use. *Cardiac Imaging* 1990
- 56.) Stone GW, Griffin B, Shah PK, Berman DS, **Siegel RJ**, Cook SL, Maurer G: The prevalence and severity of unsuspected mitral regurgitation and diastolic dysfunction in a consecutive series of patients with acute pulmonary edema associated with normal or depressed left ventricular systolic function. *Am J Cardiol* 67:37-41, 1991

- 57.) Kaul S, Fishbein MC, **Siegel RJ**: Cardiac manifestations of the acquired immune deficiency syndrome. *Am Heart J* 122:535-544, 1991
- 58.) **Siegel RJ**, Ariani M, Fishbein MC, Chae JS, Park JC, Maurer G, Forrester JS: Histopathologic validation of angioscopy and intravascular ultrasound. *Circulation* 84:109-117, 1991
- 59.) Coy KM, Park JC, Shaeffer A, Smith A, Ariani M, Chae JS, **Siegel RJ**: Spontaneous echo contrast effect as an indicator of a flow limiting coronary stenosis. *Am J Cardiol* 68:276-277, 1991
- 60.) Maurer G, **Siegel RJ**, Czer LSC: The use of color flow mapping for intraoperative assessment of valve repair. *Circulation* 84:I-250-I-258, 1991
- 61.) **Siegel RJ**, Cumberland DC, Crew JR, DonMichael TA, Myler RK, Ariani M, Pflueger R, Fishbein MC: Ultrasound Angioplasty. *J Invasive Cardiol* 3:135-143, 1991
- 62.) Ariani M, Fishbein MC, Chae JS, Sadeghi H, DonMichael TA, Dubin SB, **Siegel RJ**: Dissolution of peripheral arterial thrombi by ultrasound. *Circulation* 84:1680-1688, 1991
- 63.) Fischell TA, Abbas M, Grant GW, **Siegel RJ**. Ultrasonic energy: Effects on vascular function and integrity. *Circulation* 84:1783-1795, 1991
- 64.) Demer LL, Ariani M, **Siegel RJ**: High intensity ultrasound increases distensibility of calcific atherosclerotic arteries. *JACC* 18:1259-1262, 1991
- 65.) Coy KM, Maurer G, **Siegel RJ**: Intravascular ultrasound imaging: A current perspective. *JACC* 18:1811-1823, 1991
- 66.) Coy KM, Goodman D, Maurer G, **Siegel RJ**: Transesophageal echocardiographic detection of aortic atheromatosis may provide clues to occult renal dysfunction in the elderly. *American Heart J* 123:164-166, 1992
- 67.) Coy KM, Park JC, Fishbein MC, Laas T, Diamond GA, Adler L, Maurer G, **Siegel RJ**: In vitro validation of three-dimensional intravascular ultrasound for the evaluation of arterial injury following balloon angioplasty. *J Am Coll Cardiol* 20:692-700, 1992
- 68.) Chae JS, Choi KB, **Siegel RJ**: Geometric accuracy and histopathologic validation of intravascular ultrasound imaging. *The Korean Journal of Internal Medicine* 43:91-99, 1992
- 69.) **Siegel RJ**, Gaines P, Procter A, Fischell TA, Cumberland DC: Clinical demonstration of intraarterial ultrasound energy inducing arterial vasodilation. *J Am Coll Cardiol* 20:732-735, 1992
- 70.) Chae JS, Briskin AF, Maurer G, **Siegel RJ**: Geometric Accuracy of Intravascular Ultrasound Imaging. *J Am Society Echocardiography* 5:577-587, 1992

- 71.) Park JC, **Siegel RJ**, Demer LL: Effect of calcification and formalin fixation on in vitro distensibility of human femoral arteries. *American Heart J* 125:344-349, 1993
- 72.) Arunasalam S, **Siegel RJ**: Rapid resolution of symptomatic acute pericarditis with kerorolac tromethamine: A parental non-steroidal, anti-inflammatory agent. *Am Heart J* 125:1455-1457, 1993
- 73.) Weingarten S, Riedinger M, Shinbane J, **Siegel RJ**, Conner L, Prechtel K, Nessim S, Ellrodt AG: A triage practice guideline for patients hospitalized with congestive heart failure: Improving the effectiveness of the coronary care unit. *Am J Medicine* 94:483-490, 1993
- 74.) Steffen W, **Siegel RJ**: Ultrasound Angioplasty. *J Interventional Cardiol* 6:77-88, 1993
- 75.) Luo H, Steffen W, Cercek B, Arunasalam S, Maurer G, **Siegel RJ**: Enhancement of Thrombolysis by External Ultrasound. *Am Heart J* 125:1564-1569, 1993
- 76.) **Siegel RJ**, Forrester JS: Advantages and Limitations of Intravascular Imaging, Devices in Clinical Application in: *Acc Current Journal Review* 2:77-81, 1993
- 77.) **Siegel RJ**, Gaines P, Crew J, Cumberland D: Clinical trial of percutaneous peripheral ultrasound angioplasty. *JACC* 22:480-488, 1993
- 78.) Ross DJ, Vassolo M, Kass R, Koerner SK, **Siegel RJ**, Nathan S, Waters P, Maurer G: Transesophageal echocardiographic (TEE) assessment of pulmonary venous flow after single lung transplantation. *J Heart and Lung Transplantation* 12:689-694, 1993
- 79.) Criley JM, **Siegel RJ**: Subaortic Stenosis Revisited: The importance of the dynamic pressure gradient., *Medicine*, 412-436, 1993
- 80.) **Siegel RJ**, Chae JS, Maurer G, Berlin M, Fishbein M: Histopathologic correlation of the 3-layered intravascular ultrasound appearance of normal adult human muscular arteries. *Am Heart J* 126:872-878, 1993
- 81.) Fishbein MC, **Siegel RJ**, Thompson CE, Hopkins LC: Sudden death of a carrier of X-linked Emery-Dreifuss muscular dystrophy: Case report and study of the Cardiac Pathology. *Ann Int Med* 119:900-905, 1993.
- 82.) Lee DY, Eigler N, Fishbein MC, Bhambi B, Maurer G, **Siegel RJ**: Identification of Intracoronary Thrombus and Demonstration of Thrombectomy by Intravascular Ultrasound Imaging. *Am J Cardiol*, 73:522-523, 1994
- 83.) Lee DY, Eigler N, Luo H, Litvack F, Lambert T, Steffen W, **Siegel RJ**: Intracoronary Ultrasound Assessment of Coronary Artery Disease in a Patient with Coronary Vasospasm. *Am Heart J* 127:1402-1404, 1994

- 84.) Steffen W, Cumberland D, Gaines P, Luo H, Nita H, Maurer G, Fishbein MC, **Siegel RJ**: Catheter delivered high intensity, low frequency ultrasound induces vasodilation in vivo. *European Heart J* 15:369-376, 1994
- 85.) Lee DY, Eigler N, Luo H, Lau HK, **Siegel RJ**: Intravascular ultrasound evaluation of interventional techniques in a calcified ostial right coronary artery. *Am Heart J* 128:175-178, 1994
- 86.) **Siegel RJ**, Gunn J, Ahsan A, Fishbein MC, Bowes RJ, Oakley D, Wales C, Steffen W, Nita H, Mills T, Silverton P, Myler RK, Cumberland DCC: Use of therapeutic ultrasound in percutaneous coronary angioplasty: Experimental in vitro studies and initial clinical experience. *Circulation* 89:1587-1593, 1994
- 87.) Steffen W, Fishbein MC, Luo H, Lee DY, Nita H, Cumberland DC, Tabak SW, Carbonne M, Maurer G, **Siegel RJ**: High intensity, low frequency catheter delivered ultrasound dissolution of occlusive coronary arterial thrombi: An in vitro and in vivo study. *JACC* 24:1571-1579, 1994
- 88.) Nishioka T, Luo H, Eigler N, Tabak SW, Lepor N, Forrester JS, **Siegel RJ**: Evolving utility of intracoronary ultrasound. *Am J Cardiol* 75:539-541, 1995
- 89.) Naik M, Diamond G, Pai T, Soffer A, **Siegel RJ**: Correspondence of left ventricular ejection fraction determinations from two-dimensional echocardiography, radionuclide angiography and contrast angiography. *J Am Coll Cardiol* 25:937-942, 1995
- 90.) Freimark D, Czer LSC, Aleksic I, Barthold C, Admon D, Trento A, Blanche C, Vedinza M, **Siegel RJ**: Improved left atrial transport and function with orthopic heart transplantation using bicaval and pulmonary venous anastomoses. *Am Heart J* 130:121-126, 1995
- 91.) Lee DY, Eigler N, Luo H, Nishioka T, Tabak S, Forrester JS, **Siegel RJ**: Effect of intracoronary ultrasound imaging on clinical decision making. *Am Heart J* 129:1084-1093, 1995
- 92.) Kiat H, Ansari A, Berman DS, Friedman JD, **Siegel RJ**: Abnormal myocardial perfusion single photon emission computed tomography and normal coronary angiogram: The role of intracoronary vascular ultrasound in providing diagnostic confirmation. *Am Heart J* 130:182-186, 1995
- 93.) Berglund H, Nishioka T, Hackner E, Kim CJ, Luo H, Fontana G, **Siegel RJ**: Ventricular pacing - A cause of reversible severe mitral valve regurgitation. *Am Heart J* 131:1035-7, 1996
- 94.) Nishioka T, Luo H, Berglund H, Eigler N, Kim CJ, Tabak SW, **Siegel RJ**: Absence of focal compensatory enlargement or constriction in diseased human coronary saphenous vein bypass grafts: An intravascular ultrasound study. *Circulation* 93:684-690, 1996
- 95.) Nishioka T, Friedman A, Cercek B, Chauv A, Luo H, Berglund H, Kim CJ, Blanche C, **Siegel RJ**: Usefulness of Transesophageal Echocardiography for positioning the Intraaortic Balloon Pump in the Operating Room. *Am J Cardiol* 77:105-106, 1996

- 96.) Luo H, Nishioka T, Berglund H, Kim CJ, Carbone M, Cercek B, **Siegel RJ**: The Effect of External Ultrasound Frequency on Thrombus Disruption in vitro. *Journal of Thrombosis and Thrombolysis* 3:63-66, 1996
- 97.) Nishioka T, Fontana G, Luo H, Berglund H, Kim CJ, Fishbein MC, **Siegel RJ**: Intracardiac thrombus formation associated with a non-penetrating gun shot wound of the right ventricular outflow tract demonstrated by transesophageal echocardiography. *Am Heart J* 132:1265-1267, 1996
- 98.) Nishioka T, Luo H, Eigler NL, Berglund H, Kim CJ, **Siegel RJ**: Contribution of inadequate compensatory enlargement to the development of human coronary artery stenosis - An in vivo intravascular ultrasound study. *JACC* 27:1571-1576, 1996
- 99.) Luo H, Nishioka T, Fishbein MC, Cercek B, Forrester JS, Kim CJ, Berglund H, **Siegel RJ**. Transcutaneous ultrasound augments lysis of arterial thrombi in vivo. *Circulation* 94:775-778, 1996
- 100.) Luo H, Nishioka T, Eigler NL, Forrester JS, Fishbein MC, Berglund H, **Siegel RJ**. Coronary artery restenosis after balloon angioplasty in humans is associated with circumferential coronary constriction. *Arterioscler Thromb Vasc Biol.* 16:1393-1398, 1996
- 101.) Fishbein MC, **Siegel RJ**. How big are atherosclerotic plaques that rupture? *Circulation* 94:2662-2666, 1996
- 102.) Kim CJ, Berglund H, Nishioka T, Luo H, **Siegel RJ**. Correspondence of aortic valve area determination from transesophageal echocardiography, transthoracic echocardiography and cardiac catheterization. *Am Heart J* 132:1163-1172, 1996
- 103.) Berglund H, Luo H, Nishioka T, Eigler NL, Kim CJ, Tabak SW, **Siegel RJ**. Preserved vasodilatory response to nitroglycerin in saphenous vein bypass grafts. *Circulation* 94:2871-2876, 1996
- 104.) Haouzi A, Berglund H, Pelikan PCD, Maurer G, **Siegel RJ**: Heterogeneous aortic response to acute B-Adrenergic blockade in Marfan's Syndrome. *Am Heart J* 133:60-63, 1997
- 105.) Hamm CW, Steffen W, de Scherder I, Teres W, Reimers J, **Siegel RJ**, Meinertz T. Intravascular therapeutic ultrasound thrombolysis in acute myocardial infarctions. *Am J Cardiol*, 1997;80:200-204
- 106.) Birnbaum Y, Luo H, Fishbein MC, Samuels B, **Siegel RJ**. Documentation by intravascular ultrasound of thrombus overlying a small atheromatous plaque in a coronary artery in unstable angina pectoris and in acute myocardial infarction. *Am J Cardiol* 79:1568-1570, 1997
- 107.) Luo H, Fishbein MC, Berglund H, Nishioka T, Kim CJ, **Siegel RJ**. Comparison of intravascular ultrasound measurements at the sites of balloon dilatations of femoral arteries with measurements of postmortem gross arterial segments at the same sites. *Am J Cardiol* 79:1564-1567, 1997

- 108.) Berglund H, Luo H, Nishioka T, Fishbein MC, Eigler NL, Tabak SW, **Siegel RJ**. Highly localized arterial remodeling in patients with coronary atherosclerosis - An intravascular ultrasound study. *Circulation*, 96:1470-1476, 1997
- 109.) Nishioka T, Luo H, Fishbein MC, Cercek B, Forrester JS, Kim CJ, Berglund H, **Siegel RJ**. Dissolution of thrombotic arterial occlusion by high intensity low frequency ultrasound and Dodecafluoropentane emulsion - In Vitro and In Vivo Study. *JACC* 30:561-568, 1997
- 110.) Birnbaum Y, Fishbein MC, Kass R, Samuels B, Luo H, **Siegel RJ**. Dissection of the ascending aorta induced by coronary angiography. *Am J Cardiol* 80:537-539, 1997
- 111.) Birnbaum Y, Fishbein M, Luo H, Naqvi T, **Siegel RJ**. Intramyocardial periprosthetic aortic valve aneurysm. *Am J Cardiol* 80:972, 1997
- 112.) Birnbaum Y, M.D., Fishbein MC, Lou H, Nishioka T, **Siegel RJ**. Regional remodeling of atherosclerotic arteries, a major determinant of clinical manifestations of disease. A Review. *JACC* 30:1149-1164, 1997
- 113.) Lee JJ, Kupfer J, Raissi S, Geller SA, **Siegel RJ**. Rapid extension of left adrenocortical carcinoma into the right atrium. *J Am Soc of Echocardiography* 11:86-88, 1998
- 114.) Chyu KY, Birnbaum Y, Naqvi T, Fishbein MC, **Siegel RJ**. Echocardiographic detection of Kaposi's Sarcoma causing cardiac tamponade in a patient with acquired immunodeficiency syndrome. *Clinical Cardiology* 21:131-133, 1998
- 115.) Birnbaum Y, Luo H, Nagai T, Fishbein MC, Peterson TM, Li S, Kriesfeld D, Porter TR, **Siegel RJ**. Non-invasive in vivo clot dissolution without a thrombolytic drug: Recanalization of thrombosed iliofemoral arteries by transcutaneous ultrasound combined with intravenous infusion of microbubbles. *Circulation* 97:130-134, 1998
- 116.) Birnbaum Y, Luo H, Nagai T, Chaux A, Naqvi T, **Siegel RJ**. Visualization of stents in the left anterior descending coronary artery by trans-thoracic echocardiography in pigs and human. *Am J Cardiol* 81:229-231, 1998
- 117.) Luo H, Birnbaum Y, Fishbein MC, Peterson TM, Nagai T, Nishoka T, **Siegel RJ**. Enhancement of thrombolysis in vivo without skin and soft tissue damage by transcutaneous ultrasound. *Thrombosis Research* 89:171-177, 1998
- 118.) Naqvi TZ, **Siegel RJ**, Buchbinder NA, Fishbein MC. Clinical, Echocardiographic and Pathologic Features of Aortic Wall Dehiscence of Porcine Bioprosthetic Valves: A Cause of Rapidly Progressive Mitral Regurgitation and Heart Failure After Bioprosthetic Mitral Valve Replacement. *J Am Society of Echocardiography* 11:720-728, 1998

- 119.) Luo H, Fishbein MC, Bar-Cohen Y, Nishioka T, Berglund H, Kim CJ, Nagai T, Birnbaum Y, **Siegel RJ**. A cooling system permits effective transcutaneous ultrasound clot lysis in vivo without skin damage. *Thrombosis and Thrombolysis* 6:125-131, 1998
- 120.) Baumgartner H, Porenta G, Lau YK, Wutte M, Klaar W, Mehrabi M, **Siegel RJ**, Czernin J, Laufer G, Sochor H, Schelbert H, Fishbein MC, Maurer G. Assessment of myocardial viability by dobutamine echocardiography, positron emission tomography and thallium-201 SPECT: Correlation with histopathology in explanted hearts. *JACC* 32:1701-8, 1998
- 121.) Fishbein MC, **Siegel RJ**. Coronary Artery Plaque Dimension and Rupture. *Cardiologia* 43:693-697, 1998
- 122.) Mann-Rouillard V, Fishbein MC, Naqvi TZ, DonMichael TA, **Siegel RJ**. Frequency of Echocardiographic Improvement in Left Ventricular Cavity Size and Contractility in Idiopathic-Dilated Cardiomyopathy. *Am J Cardiol* 83:131-133, 1999
- 123.) Atar S, Nagai T, Birnbaum Y, Harold JG, Luo H, Naqvi TZ, **Siegel RJ**. Transesophageal echocardiographic Doppler findings in patients with penetrating aortic ulcers. *Am J Cardiol* 83:133-5, 1999
- 124.) Nagai T, Luo H, Atar S, Lepor NE, Fishbein MC, **Siegel RJ**. Intravascular Ultrasound Imaging of Ruptured Atherosclerotic Plaques in Coronary Arteries. *Am J Cardiol* 83:135-137, 1999
- 125.) Birnbaum Y, Wagner GS, Barbash GI, Gates K, Criger DA, Sclarovsky S, **Siegel RJ**, Granger CB, Reiner JS, Ross AM. Correlation of Angiographic Findings and Right (V<sub>1</sub> to V<sub>3</sub>) Versus Left (V<sub>4</sub> to V<sub>6</sub>) Precordial ST-Segment Depression in Inferior Wall Acute Myocardial Infarction. *Am J Cardiol* 83:143-148, 1999
- 126.) Atar S, Luo H, Nagai T, **Siegel RJ**. Ultrasonic Thrombolysis – Catheter-Delivered and transcutaneous applications. *Euro J Ultrasound* 9:39-54, 1999
- 127.) Fan S, Nagai T, Luo H, Atar S, Naqvi T, Birnbaum Y, Lee S, **Siegel RJ**. Superiority of the Combination of Blood and Agitated Saline for Routine Contrast Enhancement. *J Am Society of Echocardiography* 12:94-98, 1999
- 128.) Nishioka T, Amanullah AM, Luo H, Berglund, Luo H, Berglund H, Kim CJ, Nagai T, Hakamata N, Katsushika S, Uehata A, Takase B, Isojima K, Berman DS, **Siegel RJ**.
- 129.) Clinical validation of intravascular ultrasound imaging for assessment of coronary stenosis severity. *JACC* 33:1870-1878, 1999
- 130.) Atar S., Chiu J, Forrester JS, **Siegel RJ**. Bloody pericardial effusion in patients with cardiac tamponade – is the etiology cancerous, tuberculous or iatrogenic in the 1990's? *Chest* 116:1564-1569, 1999

- 131.) Naqvi TZ, **Siegel RJ**, Buchbinder NA, Miroshnik S, Saeedi G, Trento A, Fishbein MC. Echocardiographic and Pathologic Features of Explanted Hancock and Carpentier-Edwards Bioprosthetic Valves in the Mitral Position. *Am J Cardiol* 84:1422-1427, 1999
- 132.) Brasch AV, Raissi SS, Hackner EL, Khan SS, Nagai T, **Siegel RJ**. Transesophageal echocardiographic (TEE) identification of an abdominal aortic pseudoaneurysm complemented by a transpulmonary echo contrast agent. *Am J Cardiol* 84:240-241, 1999
- 133.) Naqvi TZ, **Siegel RJ**. Aortic Stenosis – The Role of Transesophageal Echocardiography. *Echocardiography* 16:671-688, 1999
- 134.) Naqvi TZ, Goel R, Forrester JS, **Siegel RJ**. Myocardial contractile reserve on Dobutamine Echocardiography predicts late spontaneous improvement in cardiac function in patients with recent onset idiopathic dilated cardiomyopathy. *JACC* 34:1537-1544, 1999
- 135.) Birnbaum Y, Atar S, Luo H, Nagai T, **Siegel RJ**. Ultrasound has synergistic effects in vitro with Tirofiban and Heparin for thrombus dissolution. *Thrombosis Research* 96:451-458, 1999
- 136.) Frimerman A, Miller HI, **Siegel RJ**, Rosenschein U, Roth A, Keren G. Intravascular Ultrasound Imaging of Myocardial-Infarcted-Related Arteries after Percutaneous
- 137.) **Siegel RJ**, et al. Transluminal Coronary Angioplasty reveals Significant Plaque burden and Compensatory Enlargement *Int J Cardiovasc Intervent.* 2:101-107, 1999
- 138.) Naqvi TZ, Goel RK, Forrester JS, Davidson RM, **Siegel RJ**. Usefulness of left ventricular mass in predicting recovery of left ventricular systolic function in patients with symptomatic dilated idiopathic cardiomyopathy. *Am J Cardiol* 85:624-629, 2000
- 139.) Khan SS, **Siegel RJ**, DeRobertis MA, Blanche CE, Kass RM, Cheng W, Fontana GP, Trento A. Regression of hypertrophy after aortic valve replacement with 19mm-23mm Carpentier-Edwards Pericardial Bioprostheses. *Annals of Thoracic Surg* 69:531-535, 2000
- 140.) Kangavari S, Collins J, Cercek B, **Siegel R**. Tricuspid valve group B streptococcal endocarditis after an elective termination of pregnancy. *Clinical Cardiology*, 23:301-303, 2000
- 141.) Birnbaum Y, Iakobishvili Z, Porter A, Hasdai D, Atar S, **Siegel RJ**, Battler A. Microparticle-containing oncotic solutions augment in-vitro clot disruption by ultrasound. *Thrombosis Research*, 98:549-557, 2000
- 142.) Brasch AV, Khan SS, DeRobertis MA, Kong JHK, Chiu J, **Siegel RJ**. Change in mitral regurgitation severity after aortic valve replacement for aortic stenosis. *Am J Cardiol*, 85:1271-74, 2000
- 143.) Atar S, Cercek B, Nagai T, Luo H, Lewin HC, Naqvi TZ, **Siegel RJ**. Transthoracic stress echocardiography with transesophageal atrial pacing for bedside evaluation of inducible myocardial ischemia in patient with new onset chest pain. *Am J Cardiol* 86:12-16, 2000



- 144.) Bowman, AR., **Siegel RJ**, Blanche C, Petrovic LM, Dhar S, Miller BJ, Kaul S. Metastatic pancreatic adenocarcinoma to the heart diagnosed antemortem. *J Am Soc Echocardiography* 13:415-416, 2000
- 145.) **Siegel RJ**, Atar S, Fishbein MC, Brasch AV, Peterson TM, Nagai T, Pal Dharmendra, Nishioka T, Chae JS, Birnbaum Y, Zanelli C, Luo H. Noninvasive transthoracic low frequency ultrasound augments thrombolysis in a canine model of acute myocardial infarction. *Circulation* 101:2026-2029, 2000
- 146.) Birnbaum Y, Wagner GS, Gates KB, Thompson TD, Barbash GI, **Siegel RJ**, Granger CB, Fishbein MC, Crenshaw BS, Califf RM. Clinical and Electrocardiographic Variables Associated with Increased Risk of Ventricular Septal Defect in Acute Anterior Myocardial Infarction. *Am J Cardiol* 86:830-834, 2000
- 147.) Atar S, Nagai T, Cercek B, Naqvi TZ, Luo H, **Siegel RJ**. Pacing Stress Echocardiography – An Alternative to Pharmacological Stress Testing. *JACC* 36:1935-1941, 2000
- 148.) Berglund H, Kim CJ, Nishioka T, Luo H, **Siegel RJ**. Influence of Ejection Fraction and Valvular Regurgitation on the Accuracy of aortic Valve Area Determination. *Echocardiography* 18:65-72, 2000
- 149.) Nishioka T, Nagai T, Luo H, Kitamura K, Hakamata N, Akanuma M, Katsushika S, Uehata A, Takease B, Isojima K, Ohtomi S, **Siegel RJ**. Coronary remodeling of proximal and distal stenotic atherosclerotic plaques within the same artery by intravascular ultrasound study. *Am J Cardiol* 87:387-391, 2001
- 150.) Chiu J, Atar S, **Siegel RJ**. Comparison of Serous and bloody pericardial effusion as an ominous prognostic sign. *Am J Cardiol* 87:924-926, 2001
- 151.) Atar S, Luo H, Birnbaum Y, Hansmann D, **Siegel RJ**. The use of transducer-tipped ultrasound catheter for recanalization of thrombotic arterial occlusions. *Echocardiography* 18:233-237, 2001
- 152.) **Siegel RJ**, Atar S, Fishbein MC, Brasch AV, Peterson TM, Nagai T, Pal D, Nishioka T, Chae JS, Birnbaum Y, Zanelli C, Luo H. Noninvasive transcutaneous low frequency ultrasound enhances thrombolysis in peripheral and coronary arteries. *Echocardiography* 18:247-257, 2001
- 153.) Dhar SC, Birnbaum Y, Hayes S, Naqvi T, Cercek B, Blanche C, Friedman A, Trento A, **Siegel RJ**. Milrinone echocardiographic viability test- an intraoperative study. *J Am Soc Echocardiography* 14:668-675, 2001
- 154.) Wyshesky A, Lakobishvili Z, Golovchiner G, Vaturi m, **Siegel RJ**, Birnbaum Y. There is synergism between high-intensity, low frequency ultrasound and streptokinase but not with eptifibatide, haperin, and aspirin. Diferential effects on fresh and aged blood clots. An in vitro study. *Thrombosis Research* 103:337-344, 2001.

- 155.) Atar A, Luo H, Nagai T, Sahm RA, Fishbein MC, **Siegel RJ**. Arterial thrombus dissolution in-vivo by transducer-tipped high-frequency ultrasound local drug delivery catheter and low-dose urokinase. *J Endovascular Therapy* 8:282-290, 2001
- 156.) Naqvi, TZ, Neyman G, Broyde A, **Siegel RJ**. Doppler tissue imaging improves the detection of basal inferior wall motion abnormalities. *J of Am Soc Echocardiography* 14:867-873, 2001
- 157.) Atar S, Luo H, Birnbaum Y, Nagai T, **Siegel RJ**. Augmentation of In-Vitro clot dissolution by low frequency high-intensity ultrasound combined with antiplatelet and antithrombotic drugs. *Thrombosis and Thrombolysis* 11:223-228, 2001.
- 158.) Birnbaum Y, Luo H, Atar S, Fishbein MC, Brasch AV, Nagai T, Pal D, Nishioka T, Chae JS, Zanelli C, Peterson TM, **Siegel, RJ**. Noninvasive transthoracic low frequency ultrasound augments thrombolysis in a canine model of acute myocardial infarction – evaluation of the extent of ST-segment resolution. *J Thrombosis and Thrombolysis* 11:229-234, 2001.
- 159.) Adler Y, Attar D, Vaturi M, Golovchiner G, Iakobishvili Z, Battler A, **Siegel RJ**, Birnbaum Y. The effects of streptokinase and hydroxyethyl starch on in vitro clot disruption by ultrasound. *Cardiovascular Drugs and Therapy* 15:119-123, 2001
- 160.) Brasch AV, Luo H, Khan SS, Mirocha JM, DeRobertis M, Naqvi TZ, Jeon DS, **Siegel RJ**. Effect of harmonic imaging for planimetry on transthoracic echocardiography on visualization of the aortic valve. *Am J Cardiol* 88:1047-1049, 2001
- 161.) Brasch AV, Mohsenifar Z, Jeon DS, Luo H, Mirocha JM, Khan SS, **Siegel RJ**. Aortic root dilatation in patients with emphysema. *Am Heart Journal* 142:1024-1027, 2001
- 162.) Jeon DS, Atar S, Brasch A, Luo H, Mirocha J, Naqvi TZ, Kraus R, Berman DS, **Siegel RJ**. Association of mitral annulus calcification, aortic valve calcification, and aortic root calcification with abnormal myocardial perfusion single photon emission tomography in subjects age  $\leq$  65 years old. *J Am Coll Cardiol* 38:1988-1993, 2001
- 163.) Naqvi TZ, Neyman G, Broyde A, Mustafa J, **Siegel RJ**. Comparison of myocardial tissue Doppler with transmitral flow Doppler in left ventricular hypertrophy. *J Am Soc Echocardiogr* 14:1153-1160, 2001
- 164.) Kobal S, Neuman Y, **Siegel RJ**. Handheld cardiac US devices improve care. *Cardiovascular Imaging. Supplement to Diagnostic Imaging* 12-16, 2002.
- 165.) Jeon DS, Luo H, Iwami T, Miyamoto T, Brasch AV, Mirocha J, Naqvi TZ, Kraus R, **Siegel RJ**. The usefulness of a 10% air-10% blood-80% saline mixture for contrast echocardiography: Doppler measurement of pulmonary artery systolic pressure. *J Am Coll Cardiol* 39:124-129, 2002

- 166.) Nishioka T, Mitani H, Uehata A, Takase B, Isojima K, Nagai T, Ohsuzu F, Kurita A, Ohtomi S, **Siegel RJ**. Utility and limitation of treadmill exercise echocardiography for detecting significant coronary stenosis in infarct-related arteries in patients with healed myocardial infarction. *Am J Cardiol* 89:159-163, 2002.
- 167.) Birnbaum Y, Fishbein MC, Blanche C, **Siegel RJ**. Ventricular septal rupture after acute myocardial infarction. *N Engl J Med* 347:1426-32, 2002
- 168.) Jeon DS, Miyamoto T, Fontana G, Friedman A, **Siegel RJ**. Pulmonary artery compression by a saphenous vein graft aneurysm and contrast echocardiography using agitated 10% air-10% blood-10% saline mixture. *J Am Soc Echocardiography* 15:1529-32, 2002.
- 169.) Naqvi T, Nagai T, Atar S, **Siegel RJ**. Early Appearance of Echocontrast Simulating an Intracardiac Shunt in a Patient with Liver Cirrhosis and Intrapulmonary Shunting. *J Am Soc Echocardiography* 15:379-81, 2002.
- 170.) Shlamovitz GZ, Iakobishvili Z, Matz I, Golovchiner G, Lev E, **Siegel RJ**, Birnbaum Y. In vitro ultrasound augmented clot dissolution – What is the optimal timing of ultrasound application? *Cardiovascular Drug Therapy* 16:521-526, 2002.
- 171.) Neuman Y, Luthringer D, Kobal S, Miyamoto T, Trento A, **Siegel RJ**. Multiple Aortic Valve Papillary Fibroelastoma: An Unusual Presentation of a Rare Tumor. *J Am Soc Echocardiography* 16:494-496, 2003.
- 172.) Adler Y, Dagan A, Golovchiner G, Iakobishvili Z, Matz I, Lev E, **Siegel RJ**, Birnbaum Y. Augmentation of low-frequency ultrasound-induced clot disruption by hydroxyethyl starch is dependent on the duration and intensity of ultrasound exposure; An In Vitro Study. *Ultrasound in Med & Biol*, Vol. 29, No. 3, pp. 483-486, 2003
- 173.) Atar S, Jeon DS, Luo H, **Siegel RJ**. Mitral annular calcification: a marker of severe coronary artery disease in patients under 65 years old. *Heart* 89:161-164, 2003.
- 174.) Neuman YM, Brasch AV, Kobal S, Khan SS, Mirocha JM, Naqvi TZ, **Siegel RJ**. Comparison of Transthoracic and Intraoperative Transesophageal Color-flow Doppler Assessment of Mitral and Aortic Regurgitation. *Cardiology*, 99:135-152, 2003
- 175.) Miyamoto T, Neuman Y, Luo H, Jeon DS, Kobal S, Ikeno F, Horzewski M, Honda Y, Mirocha JM, Iwami T, Echt D, Fishbein MC, **Siegel RJ**. Coronary Vasodilation by Noninvasive transcutaneous Ultrasound: An In Vivo Canine Study *J Am Coll Cardiol* 41:1623-1627, 2003
- 176.) Nishioka T, Mitani H, Uehata A, Hikita H, Nagai T, Katsushika S, Takase B, Isojima K, Ohsuzu F, Kurita A, Ohtomi S, **Siegel RJ**. Effect of Infarcted Myocardium on Diagnostic Accuracy of Exercise Echocardiography for Detecting Noninfarcted-Related Coronary Artery Lesions. *Am Heart J* 145:162-168, 2003.

- 177.) Wei K, Crouse L, Weiss J, Villanueva F, Schiller NB, Naqvi TZ, **Siegel RJ**, Monaghan M, Goldman J, Aggarwal P, Feigenbaum H, DeMaria A. Comparison of Usefulness of Dipyridamole Stress Myocardial Contrast Echocardiography to Technetium-99m Sestamibi Single-Photon Emission Computed Tomography for Detection of Coronary Artery Disease (PB 127 Multicenter Phase 2 Trial Results). *Am J Cardiol* 91:1293-1298, 2003
- 178.) Cohen MG, Tuero E, Bluguermann J, Kevorkian R, Berrocal DH, Carlevaro O, Picabea E, Hudson MP, **Siegel RJ**, Douthat L, Greenbaum AB, Echt D, Weaver WD, Grinfeld LR. Transcutaneous Ultrasound Facilitated Coronary Thrombolysis During Acute Myocardial Infarction. *Am J Cardiol* 92:454-457, 2003
- 179.) Iwami T, Nishioka T, Fishbein MC, Luo H, Jeon DS, Miyamoto T, Wakeyama T, Iida H, Takaki A, Oda T, Mochizuki M, Ogawa H, **Siegel RJ**. Coronary arterial remodeling in differing clinical presentations of unstable angina pectoris - An intravascular ultrasound study. *Clinical Cardiology* 26:384-289, 2003.
- 180.) Jeon DS, Luo H, Brasch AV, Nagai T, Miyamoto T, Mohsenifar Z, **Siegel RJ**. Superiority of air-10% blood -10% saline mixture for measuring the velocity of tricuspid regurgitation in patients with severe emphysema. *J of the Am Society of Echocardiography* 16:867-70, 2003
- 181.) Chen M, Luo H, Miyamoto T, Rahban M, Makkar R, Kobal S, Neuman Y, Naqvi TZ, Tolstrup K, Atar S, **Siegel RJ**. Correlation of the Echo-Doppler Aortic Valve Regurgitation Index with Angiographic Aortic Regurgitation Severity. *Am J Cardiol* 92:634-5, 2003
- 182.) Jeon DS, Luo H, Fishbein MC, Miyamoto T, Horzewski M, Iwami T, Mirocha JM, Ikeno F, Honda Y, **Siegel RJ**. Noninvasive Transcutaneous Ultrasound Augments Thrombolysis in the Left Circumflex Coronary Artery – An In Vivo Canine Study. *Thrombosis Research* 110:149-58, 2003
- 183.) Raisinghani A, Wei KS, Crouse L, Villanueva F, Feigenbaum H, Schiller NB, Weiss J, Naqvi T, **Siegel RJ**, Monaghan M, Goldman JH, DeMaria A. Myocardial Contrast Echocardiography (MCE) with Triggered Ultrasound Does not Cause Premature Ventricular Complexes: Evidence from PB127 MCE Studies. *Journal of the American Society of Echocardiography* 16:1037-1042, 2003.
- 184.) Atar S, Neuman Y, Miyamoto T, Chen M, Birnbaum Y, Luo H, Kobal S, **Siegel RJ**. Synergism of Aspirin and Heparin with a Low-Frequency Non-Invasive Ultrasound System for Augmentation of In-Vitro Clot Lysis, *J Thrombosis and Thrombolysis* 15:165-169, 2003.
- 185.) Neuman Y, Rukshin V, Tsang V, Atar S, Miyamoto T, Luo H, Kobal S, Thompson T, Birnbaum Y, Horzewski M, **Siegel RJ**, Kaul S. Augmentation of In-Stent Clot Dissolution by Low Frequency Ultrasound Combined with Aspirin and Heparin. An Ex-Vivo Canine Arteriovenous Shunt Study, *Thrombosis Research* 112:99-104, 2003
- 186.) Kobal SL, Tolstrup K, Luo H, Neuman Y, Miyamoto T, Mirocha J, Naqvi TZ, **Siegel RJ**. Usefulness of a Hand-Carried Cardiac Ultrasound Device to Detect Clinically Significant Valvular Regurgitation in Hospitalized Patients. *Am J Cardiol* 93:1069-1072, 2004

- 187.) Kobal S, Czer LS, Czer PC, Feldsher Z, Hamilton R, **Siegel RJ**. Making an Impossible Mission Possible. *Chest* 125:293-6, 2004
- 188.) Luo H, Chen M, Trento A, Miyamoto T, Kobal SL, Neuman Y, Naqvi TZ, Tolstrup K, **Siegel RJ**. Usefulness of a hand-carried cardiac ultrasound device for bedside examination of pericardial effusion in patients after cardiac surgery. *Am J Cardiol* 94:406-7, 2004
- 189.) Atar S, Feldman A, Darawshe A, **Siegel RJ**, Rosenfeld T. Utility and diagnostic accuracy of hand-carried ultrasound for emergency room evaluation of chest pain. *Am J Cardiol* 94:408-9, 2004
- 190.) Neuman Y, Cercek B, Aragon J, Lee S, Kobal K, Miyamoto T, Luo H, Tolstrup K, Naqvi TZ, Birnbaum Y, **Siegel RJ**. Comparison of frequency of left ventricular wall motion abnormalities in patients with a first acute myocardial infarction with versus without left ventricular hypertrophy. *Am J Cardiol* 94:763-766, 2004
- 191.) **Siegel RJ**, Suchkova VN, Miyamoto T, Luo H, Baggs RB, Neuman Y, Horzewski M, Suorsa V, Kobal S, Thompson T, Echt D, Francis CW. Ultrasound energy improves myocardial perfusion in the presence of coronary occlusion. *J Am Coll Cardiol* 44:1454-1458, 2004
- 192.) Kobal SL, Atar S, **Siegel RJ**. Hand-Carried ultrasound improves the bedside cardiovascular examination. *Chest* 126:693-701, 2004
- 193.) Kobal SL, Lee S, Watanabe CT, Willner R, Vargas EA, Luo H, Neuman Y, Miyamoto T, **Siegel RJ**. Hand-carried cardiac ultrasound enhances healthcare delivery in developing countries. *Am J Cardiol* 94:539-541, 2004
- 194.) **Siegel RJ**. Ultrasound augmentation of thrombolysis and tissue perfusion, *Clin Physiol Funct Imaging* 24:156-163, 2004
- 195.) Kim YH, Czer LS, Soukiasian HJ, De Robertis M, Magliato KE, Blanche C, Raissi SS, Mirocha J, **Siegel RJ**, Kass RM, Trento A. Ischemic mitral regurgitation: Revascularization alone versus revascularization and mitral valve repair. *Ann Thorac Surg* 79:1895-1901, 2005.
- 196.) Kobal SL, Trento L, Baharami S, Tolstrup K, Naqvi TZ, Cercek B, Neuman Y, Mirocha J, Kar S, Forrester JS, **Siegel RJ**. Comparison of effectiveness of hand-carried ultrasound to bedside cardiovascular physical examination. *Am J Cardiol* 96:1002-06, 2005
- 197.) Neuman Y, Tolstrup K, Blanche C, Luthringer D, Kobal S, Miyamoto T, Luo H, **Siegel RJ**. Pseudomyxoma Originating from the Interatrial Septum in a Heart Transplant Patient, *JASE* 18:771,2005
- 198.) Naqvi TZ, Boyatt J, **Siegel RJ**. Predictors of mortality in paravalvular abscess. *JASE* 18:1404-08, 2005

- 199.) Modi SA, **Siegel RJ**, Birnbaum Y, Atar S. Systematic Overview and Clinical Applications of Pacing Atrial Stress Echocardiography. *Am Journal Cardiol* 98:549-556, 2006.
- 200.) Kobal SL, Pollick C, Atar S, Miyamoto T, Aslanian N, Neuman Y, Tolstrup K, Naqvi TZ, Luo H, Macrum B, **Siegel RJ**. Stress Echocardiography in Octogenarians: Transesophageal Atrial Pacing is Accurate, Safe and Well Tolerated. *JASE* 19:1012-16, 2006
- 201.) Iida K, Luo H, Hagsisawa K, Akima T, Shah P, Naqvi TZ, **Siegel RJ**. Noninvasive, Low Frequency Ultrasound Energy Causes Vasodilation in Humans. *J Am Coll Cardiol* 48:532-537, 2006
- 202.) Goland S, Luo T, **Siegel RJ**. Multiple intracardiac thrombi in a patient with dilated cardiomyopathy. *Heart*. 92:1472, 2006.
- 203.) **Siegel RJ**, Birnbaum Y. Noninvasive coronary angiography using multislice computerized tomography. *Cardiovascular Medicine* 8:17-20, 2007
- 204.) Tolstrup K, Madsen BE, Ruiz JA, Greenwood SD, Camacho J, **Siegel RJ**, Jai-Wun Park HCG, Smars PA. Non-invasive Resting Magnetocardiographic Imaging for the Rapid Detection of Ischemia in Subjects Presenting with Chest Pain. *Cardiology* 106:270-276, 2006
- 205.) Tung R, **Siegel RJ**. Aortic pseudo-coarctation associated with a stenotic congenitally bicuspid aortic valve. *Am J Card* 100:157-158, 2007
- 206.) Cogert G, **Siegel RJ**. Giant floating aortic thrombus: A rare finding on transesophageal echocardiography. *Am J Card* 99:739-740, 2007
- 207.) S.Goland, Al.Trento, K.Iida, L.S.C Czer, K.Tolstrup, M.De Robertis, T.Akima, H.Luo, **R. J Siegel**. Assessment of Aortic Stenosis by Three-dimensional Echocardiography: Comparison with Standard Echocardiographic Techniques and Cardiac Catheterization. *Heart* 93:801-7, 2007
- 208.) Atar S, **Siegel RJ**, Akel R, Ye Y, Lin Y, Modi SA, Sewani A, Tuero E, Birnbaum. Ultrasound at 27 kHz increases tissue expression and activity of nitric oxide synthases in acute limb ischemia in rabbits. *Ultrasound in Medicine and Biology* 33:1483-8,2007
- 209.) Atar S, Tolstrup K, Cercek B, **Siegel RJ**. Chlamydia pneumoniae antibody titers and cardiac calcifications: a cross-sectional serological-echocardiographic correlative study. *Israel Medical Association Journal* 9:517-520, 2007
- 210.) Potkin R, Cheng V, **Siegel RJ**. Effects of Glossopharyngeal Insufflation on Cardiac Function: An Echocardiographic Study in Elite Breath-Hold Divers. *Journal of Applied Physiology* 103:823-827, 2007
- 211.) Iida K, Goland S, Akima T, Luo H, Birnbaum Y, **Siegel RJ**. Effect of a single 20 mg table of torvastatin on brachial artery blood flow in normolipidemic male smokers-vs-nonsmokers. *Am J Card*, 100:881-4,2007

- 212.) Goland S, Schwarz E, **Siegel RJ**, Czer LSC. Pregnancy-associated spontaneous coronary artery dissection. *Am J Obstetrics and Gynecology* 197:e11-3, 2007
- 213.) Naqvi TZ, Aslanian NG, Rafique A, **Siegel RJ**. A Novel Finding to Assess Ischemia in Pacing Stress Echocardiography (PASE). *Echocardiography* 24:629-37, 2007
- 214.) Ogawa M, Zhou S, Tan AY, Song J, Gholmieh G, Fishbein MC, Luo H, **Siegel RJ**, Karagueuzian HS, Chen LS, Lin SF, Chen PS. Left stellate ganglion and vagal nerve activity and cardiac arrhythmias in ambulatory dogs with pacing-induced congestive heart failure. *JACC* 50:335-43, 2007
- 215.) Wertman BM, Goland S, Davidson RM, **Siegel RJ**. Right Atrial and Ventricular Masses of Unknown Origin. *J Am Soc Echocardiogr* 21:776.e5-7, Epub 2007
- 216.) Goland S, Trento A, Czer LSC, Eshaghian S, Tolstrup K, Naqvi TZ, DeRobertis MA, Mirocha J, Iida K, **Siegel RJ**. Thoracic aortic arteriosclerosis in patients with degenerative aortic stenosis with and without coexisting coronary artery disease. *Ann Thorac Surg*, 85:113-9, 2008
- 217.) Kobal SL, Paran E, Jamali A, Mizrahi S, **Siegel RJ**, Leor J. Pheochromocytoma: cyclic attacks of hypertension alternating with hypotension. *Nature Clinical Practice Cardiovascular Medicine* 5:53-7, 2008
- 218.) S. Goland, L. S. C. Czer, D. Luthringer, **R.J. Siegel**. A case of arrhythmogenic right ventricular cardiomyopathy. *Can J Cardiology* 24:61-62, 2008
- 219.) Neuman Y, Kotliroff A, Bental T, **Siegel RJ**, David D, Lishner. Pulmonary arter pressure and diastolic dysfunction in normal left ventricular systolic function. *International Journal of Cardiology* 127:174-178, 2008
- 220.) **Siegel RJ**, Luo H. Ultrasound Thrombolysis. *Ultrasonics* 48:312-320, 2008
- 221.) Goland S, Czer LSC, **Siegel RJ**, Tabak S, Jordan S, Luthringer D, Coleman B, Kass RM, Trento A. Intravenous immunoglobulin treatment for acute fulminant inflammatory cardiomyopathy: Series of six patients and review of literature. *J Can Cardiology* 24:571-574, 2008
- 222.) Naqvi TZ, Asim R, Swerdlow CD, Verma S, **Siegel RJ**, Tolstrup K, Kerwin W, Goodman J, Peter CT. Predictors of reduction in mitral regurgitation in patients undergoing cardiac resynchronization treatment. *Heart Journal* 94:1580-8, Epub 2008
- 223.) Biner S, Rafique AM, Kar S, **Siegel RJ**. Live three-dimensional transesophageal echocardiography-guided transcatheter closure of a mitral paraprosthetic leak by Amplatzer occluder. *J Am Soc Echocardiogr* 21:1282.e7-9, Epub 2008
- 224.) Goland S, Czer LS, Kass RM, **Siegel RJ**, Mirocha J, DeRobertis MA, Lee J, Raissi S, Cheng W, Fontana G, Trento A. Use of cardiac allografts with mild and moderate left ventricular hypertrophy

- can be safely use din heart transplantation to expand the donor pool. *J Am Coll Cardiol* 51:1214-20, 2008
- 225.) Herrmann HC, Kar S, **Siegel R**, Fail P, Loghin C, Lim S, Hahn R, Rogers JH, Bommer WJ, Wang A, Berke A, Lerakis S, Kramer P, Wong C, Foster E, Glower D, Feldman T. Effect of percutaneous mitral repair with the MitraClip device on mitral valve area and gradient. *EuroInterv* 4:437-442, 2008
- 226.) Goland S, Rafique AM, Mirocha J, **Siegel RJ**, Naqvi. Reduction in mitral regurgitation in patients undergoing cardiac resynchronization treatment: Assessment of predictors by two dimensional radial strain echocardiography. *Echocardiography Journal* 26:420-430, 2009
- 227.) Biner S, Rafique A, Wolak A, Tolstrup K, **Siegel RJ**. Visual Assessment of Left Ventricular Dyssynchrony Using Tissue Synchronization Imaging. *Cardiology* 114:90-99, 2009.
- 228.) Biner S, Rafique AM, Ray I, Cuk O, **Siegel RJ**, TolstrupK. Aortopathy is Prevalent in Relatives of Bicuspid Aortic Valve Patients. *J Am Coll Cardiol* 53:2288-2295, 2009.
- 229.) Akima T, Makkar R, Nishioka T, Dohad S, Iida K, Goland S, Kar S, Luo H, **Siegel RJ**. Impact of nitroglycerin and verapamil on coronary arterial distensibility as assessed by intravascular ultrasound. *Journal of Invasive Cardiology* 21:162-167, 2009
- 230.) Singh, D, **Siegel RJ**. Intestinopericardial fistula presenting as cardiac tamponade. *Am J Card* 103:1178-1179, 2009
- 231.) Rafique A, Biner S, Ray I, Forrester JS, Tolstrup K, **Siegel RJ**. Meta-analysis of prognostic value of stress testing in patients with asymptomatic severe aortic stenosis. *American Journal of Cardiology. Am J Card* 104:972-977, 2009
- 232.) Goland S, Czer LSC, **Siegel RJ**, DeRobertis MA, Mirocha J, Zivari K, Kass RM, Raissi S, Fontana G, Cheng W, Trento A. Coronary revascularization alone or with mitral valve repair. *Texas Heart Institute Journal* 36:416-423, 2009
- 233.) Hudson M, Greenbaum A, Brenton L, Gibson CM, **Siegel R**, Reeves LR, Sala MF, McKendall G, Bluguermann J, Echt D, Ohman EM, Weaver WD. Adjunctive transcatheter ultrasound with thrombolysis. *JACC: Cardiovascular Interventions* 3:352-9, 2010
- 234.) Biner S, Rafique A, Rafii F, Tolstrup K, Noorani O, Shiota T, Gurudevan S, **Siegel RJ**. Reproducibility of Proximal Isovelocity Surface Area, Vena Contracta, and Regurgitant Jet Area have Limited Reproducibility for Assessment of Mitral Regurgitation Severity. *JACC: Cardiovascular Imaging* 3:235-43, 2010
- 235.) Biner S, Kar S, Siegel RJ, Rafique AM, Shiota T. Value of color Doppler three dimensional transesophageal echocardiography in the percutaneous closure of mitral prosthesis paravalvular leak. *Am J of Cardiology* 105:984-989, 2010



- 236.) Ronco F, Czer LS, Simsir SA, Luo H, **Siegel RJ**. Incidental finding by 2D echocardiography of a mycotic pseudoaneurysm of the ascending aorta after orthotopic heart transplantation. *Journal of the Am Soc of Echocardiography* 23:580.e1-580.e3, 2010
- 237.) Tehrani F, Dhesi P, Daneshvar D, Rafique A, Phan A, **Siegel RJ**, Cercek B. Erythropoiesis stimulating agents in heart failure patients with anemia: A Meta-Analysis. *J Cardiovascular Drugs and Therapy* 23:511-8, 2008
- 238.) Nalawadi S, **Siegel R**, Wolin E, Yu R, Trento A, Shiota T, Tolstrup K, Luthringer D, Gurudevan S, Morphologic features of carcinoid heart disease as assessed by three-dimensional transesophageal echocardiography. *Echocardiography* 27:1098-105, 2010
- 239.) Uddin P, Boyer D, **Siegel RJ**. Retinal artery embolization from a calcified bicuspid aortic valve causing amaurosis fugax. *The Am Journal of Medicine* 123:1091-3, 2010. Epub 2010 Oct 9
- 240.) Biner S, Rafique A, Pavel G, Morrissey R, Naghi J, **Siegel RJ**. Prognostic value of E/E' Ratio in patients with unoperated severe aortic stenosis. *JACC Cardiovascular Imaging* 3:899-907, 2010
- 241.) Thompson K, **Siegel RJ**. Heart in Heart. *J of Cardiovascular Med (Hagerstown)*. Sep 1. (Epub ahead of print) No abstract available, 2010
- 242.) Shimada YJ, Shiota M, Siegel RJ, Shiota T. Accuracy of right ventricular volumes and function determined by three-dimensional echocardiography in comparison with magnetic resonance imaging: a meta-analysis study. *J Am Soc Echocardiography* 23:943-53, 2010
- 243.) Gurudevan SV, Shah H, Tolstrup K, Siegel RJ, Krishnan SC. Septal thrombus in the left atrium: Is the left atrial septal pouch the culprit? *J Am Coll Cardiol Img* 3:1284-1286, 2010
- 244.) Naghi JJ, **Siegel RJ**. Medical Management of Hypertrophic Cardiomyopathy, 2010 and Beyond. *Reviews in Cardiovascular Medicine* 11:202-217, 2010
- 245.) Feldman T, Foster E, Glower DG, Kar S, Rinaldi MJ, Fail PS, Smalling RW, **Siegel R**, Rose GA, Engeron E, Loghini C, Trento A, Skipper ER, Fudge T, Letsou GV, Massaro JM, Lauri L. Percutaneous repair or surgery for mitral regurgitation. *N Engl J Med* 1-12, 2011
- 246.) Tolstrup K, Shiota T, Gurudevan S, Luthringer D, Luo H, **Siegel RJ**. Left atrial myxomas: Correlation of two-dimensional and live three-dimensional transesophageal echocardiography with the clinical and pathologic findings. *JASE* 24: 618-24, 2011
- 247.) Goland S, Siegel RJ, Burotn K, DeRobertis M, Rafique A, Schwarz E, Zivari K, Mirocha J, Trento A, Czer LSC. Changes in left and right ventricular function of donor hearts during the first year after heart transplantation. *Heart* Oct;97(20):1681-6, 2011 May 17 [Epub ahead of print]
- 248.) **Siegel RJ**, Makkar R, Doumanian, Gurudevan. Transcatheter aortic valve implantation three-dimensional echo monitoring and guidance. *Curr Cardiovasc Imaging Rep.* 4:335-348, 2011

- 249.) Ahmadi N, Eshaghian S, Huizenga R, Sosnin K, Ebrahimi R, **Siegel R**. Dramatic beneficial effects of combined intense exercise and moderate caloric restriction on cardiovascular risk factors and inflammation. *Am J of Med* 124:899-988, 2011
- 250.) Orakzai RH, Nalawadi S, Cuk O, Thomson L, Elad Y, Trento A, **Siegel RJ**, Loghavi S. Multimodality evaluation of a rare intracardiac tumor: Cardiac hemanglioma. *Am J Med* 2011 Aug;124(8):e3-4
- 251.) Manuchehry A, Fontana G, Gurudevan S, Marchevsky A, **Siegel RJ**. Missed diagnosis of limited ascending aortic dissection by multiple imaging modalities leading to fatal cardiac tamponade and aortic rupture. *Echocardiography* 2011 Oct;28(9):E187-90
- 252.) **Siegel RJ**, Luo H, Biner S. Transcatheter Valve Repair/Implantation. *Int J Cardiovasc Imaging*, 2011 Dec;27(8):1165-77. Epub 2011 Feb 23
- 253.) **Siegel RJ**, Biner S, Rafique AM, Rinaldi M, Lim S, Fail P, Hermiller J, Smalling R, Whitlow PL, Hermann HC, Foster E, Feldman T, Glower D, Kar S. The acute hemodynamic effects of MitraClip therapy. *J Am Coll Cardiol* 2011 Apr 19;57(16):1658-65
- 254.) Izumo M, Nalawadi S, Shiota M, Das J, Dohad S, Kuwahara E, Fukuoka Y, **Siegel RJ**, Shiota T. Mechanisms of acute mitral regurgitation in patients with Tako-Tsubo cardiomyopathy: An Echocardiographic Study. *Circ Cardiovasc Imaging* 2011 Jul;4(4):392-8
- 255.) Biner S, Perk G, Kar S, Rafique A, Slater J, Shiota T, Hussaini A, Chou S, Kronzon I, **Siegel RJ**. Utility of combined 2D and 3D transesophageal imaging for catheter-based mitral valve clip repair of mitral regurgitation. *J Am Soc Echocardiogr* 2011, Jan;24(6):611-7
- 256.) Nguyen CT, Lee E, Luo H, Siegel RJ. Echocardiographic Guidance for Diagnostic and Therapeutic Percutaneous Procedures. *Cardiovasc Diagn Ther* 011;1:11-36, 2011
- 257.)
- 258.) Whitlow PL, Feldman T, Pedersen WR, Lim S, Kipperman R, Smalling R, Bajwa T, Herrmann HC, Lasala J, Maddux JT, Tuzcu M, Kapadia S, Trento A, **Siegel RJ**, Foster E, Glower D, Mauri L, Kar S, EVEREST II Investigators. Acute and 12-month results with catheter-based mitral valve leaflet repair – The EVEREST II (Endovascular Valve Edge-to-Edge Repair) High Risk Study. *J Am Coll Cardiol* 2012;59:130-139, doi:10.1016/j.jacc.2011.09.067
- 259.) Thompson KA, Shiota T, Tolstrup K, Gurudevan SV, **Siegel RJ**. Utility of three-dimensional transesophageal echocardiography in the diagnosis of valvular perforations. *Am J Cardiol* 107:100-102 2011
- 260.) Manuchehry A, Fontana G, Gurudevan S, Marchevsky A, **Siegel RJ**. Missed diagnosis of limited ascending aortic dissection by multiple imaging modalities leading to fatal cardiac tamponade and aortic rupture. *Echocardiography* (9):E187-90, 2011

- 261.) Rafique AM, Patel N, Biner S, Eshaghian S, Mendoza F, Cercek B, **Siegel RJ**. Frequency of recurrence of pericardial tamponade in patients with extended vs. Non-Extended pericardial catheter drainage. *Am J Cardiol* 108:1820-25 2011
- 262.) **Makkar RR**, Fontana G, Hasan J, Kapadia S, Pichard AD, Douglas PS, Thourani VH, Babaliaros VC, Webb JG, Herrmann HC, Bavaria JE, Kodali S, Brown DL, Bowers B, Dewey TM, Lvensson LG, Tuzcu M, Moses JW, Williams MR, **Siegel RJ**, Akin JJ, Anderson WN, Pocock S, Smith CR, Leon MB, for the PARTNER Trial Investigators. Transcatheter Aortic-Valve Replacement for Inoperable Severe Aortic Stenosis. *N Engl J Med* 366:1696-1704, 2012
- 263.) Daneshvar DA, Kedia G, Fishbein MC, **Siegel RJ**. Familial restrictive cardiomyopathy with 12 affected family members. *Am J Cardiol* 109:445-447, 2012
- 264.) **Siegel RJ**, Makkar R, Doumanian A, Gurudevan SV. Transcatheter aortic valve implantation (TAVI) 3D echo monitoring and guidance. *Current Cardiovascular Imaging Reports* 4:335-348, 2012
- 265.) Perk G, Biner S, Kronzon I, Saric M, Chinitz L, Thompson K, Shiota T, Hussani A, Lang R, **Siegel RJ**, Kar S. Catheter-based left atrial appendage occlusion procedure: role of echocardiography. *Eur J Echocardiogr* 13:132-8, 2012
- 266.) Biner S, **Siegel RJ**, Feldman T, Rafique AM, Trento A, Whitlow P, Rogers J, Moon M, Lindman B, Zajarias A, Glower D, Kar S on behalf of the EVEREST investigators. Acute effect of percutaneous MitraClip therapy in patients with haemodynamic decompensation. *Eur J Heart Fail*, 14:939-45, 2012
- 267.) Rafique AM, Phan A, Tehrani F, Biner S, **Siegel RJ**. Transthoracic echocardiography parameters in the estimation of pulmonary capillary wedge in patients with present or previous heart failure. *Am J of Card*, 110:689-94, 2012
- 268.) Miyata-Fukuoka Y, Izumo M, Shimada Y, Ruwahara E, Gurudevan SV, Tolstrup K, **Siegel RJ**, Shiota T. Left atrial size and function are related to pulmonary hypertension in coronary artery disease. *Echocardiography* 29:535-40, 2012
- 269.) Whitlow PL, Feldman T, Pedersen WR, Lim S, Kipperman R, Smalling R, Bajwa T, Herrmann HC, Lasala J, Maddux JT, Tuzcu M, Kapadia S, Trento A, **Siegel RJ**, Foster E, Glower D, Mauri L, Kar S. Acute and 12-Month Results with Catheter-Based Mitral Valve Leaflet Repair. *J Am Col Cardiol* 59:130-9, 2012
- 270.) Nalawadi SS, Tolstrup K, Cuk O, Shiota T, Gurudevan SV, **Siegel RJ**. Atropine as an adjunct to supine bicycle stress echocardiography: an alternative strategy to achieve target heart rate or rate pressure product. *Eur Heart J Cardiovasc Imaging*, 13:612-6, 2012
- 271.) **Siegel RJ**, Luo H. Echocardiography in transcatheter aortic valve implantation and mitral valve clip. *Korean J Intern Med* 27: 245-61, 2012

- 272.) Min JK, Castellanos J, **Siegel R**. New frontiers in CT angiography: physiologic assessment of coronary artery disease by multidetector CT. *Heart* doi: 10.1136/heartjnl-2012-302039, 2013
- 273.) Matsumoto T, Nakamura M, Yeow WL, **Siegel RJ**, Kar S. Transcatheter Left Atrial Appendage Closure after Incomplete Surgical Ligation. *JACC: Cardiovascular Interventions* 6, No. 2, e11-e2, 2013
- 274.) Izumo M, Shiota M, Kar S, Gurudevan SV, Tolstrup K, **Siegel RJ**, Shiota T. Comparison of real-time three-dimensional transesophageal echocardiography to two-dimensional transesophageal echocardiography for quantification of mitral valve prolapse in patients with severe mitral regurgitation. *Am J Cardiol* 111:588-94, 2013
- 275.) Czer LSC, Goland S, Soukiasian HJ, Gallagher S, De Robertis MA, Mirocha J, **Siegel RJ**, Kass RM, Trento A. Aortic valve replacement or heart transplantation in patients with aortic stenosis and severe left ventricular dysfunction. *Transplantation Proceedings* 45(1): 364-368, 2013
- 276.) Beigel R, Thomson LEJ, **Siegel RJ**. An unusual case of saline contrast injected in the anterior cubital vein appearing in the left prior to the right heart. *J Am Coll Cardiol*. 2013;62(7):643 doi:10.1016/j.jacc.2013.01.105
- 277.) Jilaihawi H, Doctor N, Kashif M, Chakravarty T, Rafique A, Makar M, Furugen A, Nakamura M, Mirocha J, Gheorgiou M, Stegic J, Okuyama K, Sullivan D, **Siegel R**, Min J, Gurudevan S, Fontana G, Cheng W, Friede G, Shiota T, Makkar R. Aortic Annular Sizing for Transcatheter Aortic Valve Replacement using Cross-Sectional Three-Dimensional Transesophageal Echocardiography. *JACC* 61:908-916, 2013
- 278.) Wunderlich N, **Siegel RJ**. Peri-interventional Echo Assessment for the MitraClip Procedure. *Eur Heart J Cardiovasc Imaging* 14:935-949, 2013
- 279.) Tanaka J, Izumo M, Fukuoka Y, Saitoh T, Harada K, Harada K, Gurudevan SV, Tolstrup K, **Siegel RJ**, Shiota T. Comparison of Two-Dimensional Versus Real-Time Three-Dimensional Transesophageal Echocardiography for Evaluation of Patent Foramen Ovale Morphology. *Am J Cardiol* 111:1052-1056, 2013
- 280.) Douglas PS, Waugh RA, Bloomfield G, Dunn G, Davis L, Hahn RT, Pibarot P, Stewart WJ, Weissman NJ, Hueter I, **Siegel R**, Lerakis S, Miller DC, Smith CR, Leon MB. Implementation of Echocardiography Core Laboratory Best Practices: A Case Study of the PARTNER 1 Trial. *J Am Soc Echocardiogr* 26:348-58, 2013
- 281.) Wunderlich NC, Beigel R, **Siegel RJ**. The Role of Echocardiography Transthoracic During Mitral Valve Percutaneous Interventions. *Cardiol Clin* 31(2):237-70, 2013
- 282.) Rostamian A, Rathod A, Makkar RR, **Siegel RJ**. 3D Echocardiographic Assessment of Patent Foramen Ovale in Platypnea-Orthodeoxia. *Echocardiography Journal* 30:E239-242, 2013

- 283.) Rostamian A, Makkar R, Jilaihawi H , Chakravarty T, Fontana G, Kapadia S, Babaliaros V , Cheng W , Thourani V, Bavaria JE, Svensson L, Kodali SK, Shiota T, **Siegel RJ** , Tuzcu EM, Xu K , Hahn R, Herrmann H, Reisman M, Whisenant B, Lim S, Beohar N , Mack M , Teirstein P, Rihal C, Douglas P, Blackstone E, Pichard AD, Webb J, Leon M. Determinants and Outcomes of Acute Transcatheter Valve-in-Valve Therapy or Embolization: A Study of Multiple Valve Implants in the US PARTNER Trial. *Journal of the American College of Cardiology* 62:418-430, 2013
- 284.) Spencer KT, Kimura BJ, Korcarz CE, Pellikka PA, Rahko PS, **Siegel RJ**. Focused cardiac ultrasound: Recommendations from the American Society of Echocardiography. *J Am Soc Echo* 26:567-81, 2013
- 285.) Roberts WC, Filardo G, Ko JM, **Siegel RJ**, Dollar AL, Ross EM, Shirani J. Comparison of total 12-lead QRS voltage in a variety of cardiac conditions and its usefulness in predicting increased cardiac mass. *Am J Cardiol* 112:904-909, 2013
- 286.) Dela Cruz SG, Plotkin JB, Esmailian F, Beigel R, **Siegel RJ**. Misdiagnosis by Transesophageal Echo of Post-Operative Cardiac Thrombus and Tamponade due to Surgicel® Fibrillar. *Eur Heart J Cardiovasc Imaging*. 2013 Aug 2. [Epub ahead of print] No abstract available. PMID: 23913333 [PubMed – as supplied by publisher]
- 287.) Plotkin JB, **Siegel RJ**, Beigel R. Plaque disruption during transcatheter aortic valve replacement. . *Eur Heart J Cardiovasc Imaging*. 2013 Aug 22 [Epub ahead of print] No abstract available. PMID: 23970763 [PubMed – as supplied by publisher]
- 288.) Beigel R, Cercek B, Luo H, **Siegel RJ**. Noninvasive Evaluation of Right Atrial Pressure. *J Am Soc Echocardiogr* 26:1033-42, 2013
- 289.) Beigel R, Cercek B, Arsanjani R, **Siegel R**. Echocardiography in the use of Non-invasive hemodynamic monitoring . *Journal of Critical Care*. 2013 Oct 14. Doi:pII: S0883-9441(13)00323-7. 10.1016/j.jcrrc.2013.09.003. [Epub ahead of print] PMID: 24135014 [PubMed – as supplied by publisher]
- 290.) Wunderlich N, Beigel, **Siegel RJ**. Management of Mitral Stenosis Using 2D and 3D Echo-Doppler Imaging. *JACC: Cardiovascular Imaging* 6:1191-1205, 2013
- 291.) Patel N, Rafique AM, Eshaghian S, Mendoza F, Biner S, Cercek B, **Siegel RJ**. Retrospective Comparison of Outcomes, Diagnostic Value, and Complications of Percutaneous Prolonged Drainage Versus Surgical Pericardiotomy of Pericardial Effusion Associated with Malignancy. *Am J Cardiol* 112:1235-9, 2013
- 292.) Slipczuk L, Trento A, Luo H, **Siegel RJ**. Competent Mitral Valve after Annulus Ring Removal for Infective Endocarditis. *J of Heart Valve Disease* 22:843-845, 2013
- 293.) Hagsisawa K, Nishioka T, Suzuki R, Maruyama K, Takase B, Ishihara M, Kurita A, Yoshimoto N, Nishida Y, Iida K, Luo H, **Siegel RJ**. Thrombus targeted perfluorocarbon containing liposomal

- bubbles for enhancement of ultrasonic thrombolysis - in vitro and in vivo study. *Journal of Thrombosis and Haemostasis* 11:1565-1573, 2013
- 294.) Beigel R, Goland S, **Siegel RJ**. Comparison of the Effect of Right Atrial Pressure of Abdominal Compression Versus the Valsalva Maneuver, *Am J Cardiol* 113:183-186, 2014
- 295.) Berdejo J, Shibayama K, Harada K, Tanaka J, Mihara H, Gurudevan SV, **Siegel RJ**, Shiota T. Evaluation of Vegetation Size and Its Relationship with Embolism in Infective Endocarditis: A Real-time Three-dimensional Transesophageal Echocardiography Study. *Circulation Cardiovascular Imaging* 7:149-154, 2014
- 296.) Beigel R, **Siegel RJ**. Should the Guidelines for the assessment of the severity of functional mitral regurgitation be redefined? *J Am Coll Cardiol Img* 7:313-314, 2014
- 297.) Ishimori ML, Agarwal M, Beigel R, Ng RK, Firooz N, Weisman MH, **Siegel RJ**. Systemic Lupus Erythematosus Cardiomyopathy - a Case Series Demonstrating a Reversible Form of Left Ventricular Dysfunction. *Echocardiography* 31:563-568, 2014
- 298.) Shibayama K, Harada K, Berdejo J, Mihara H, Tanaka J, Gurudevan SV, **Siegel RJ**, Jilaihawi H, Makkar R, Shiota T. Effect of Transcatheter Aortic Valve Replacement on the Mitral Valve Apparatus and Mitral Regurgitation: A Real-time Three-Dimensional Transesophageal Echocardiography Study. *Circulation Cardiovasc Imaging* doi: 10.1161/CIRCIMAGING.113.000942, Mar 2014
- 299.) Beigel R, **Siegel RJ**, Kahlon RS, Jilaihawi H, Cheng W, Makkar RR. Transcatheter Aortic Valve Implantation for a Failed Bio-Bentall in Patients with Marfan Syndrome. *Cardiology* 128:9-12, 2014
- 300.) Rostamian A, Narayan SM, Thomson L, Fishbein M, **Siegel RJ**. The Incidence, Diagnosis, and Management of Pulmonary Vein Stenosis as a Complication of Atrial Fibrillation Ablation. *J Interv Card Electrophysiol*. 40:63-74, 2014; doi 10.1007/s10840-014-9885-z, 2014
- 301.) Beigel R, Tress JC, Thomson LEJ, Luthringer DJ, Shturman A, Trento A, **Siegel RJ**. Multimodality Imaging of a Cardiac Angiosarcoma. *Arch Cardiovasc Imaging* Aug:e20252, 2014
- 302.) Kobal SL, Wilkof-Segev R, Patchett MS, Vodonos A, Liel-Cohen N, Novack V, Bangalore S, **Siegel RJ**. Prognostic Value of Myocardial Ischemic Electrocardiographic Response in Patients with Normal Stress Echocardiographic Study. *Am J of Cardiol* 6:945-949, 2014
- 303.) Shibayama K, Harada K, Berdejo J, Mihara H, Tanaka J, Gurudevan SV, **Siegel R**, Jilaihawi H, Makkar RR, Shiota T. Effect of transcatheter aortic valve replacement on the mitral valve apparatus and mitral regurgitation: real-time three-dimensional transesophageal echocardiography study. *Circ Cardiovasc Imaging* 7:344-51, 2014

- 304.) Douglas PS, Hahn RT, Pibarot P, Weissman NJ, Stewart WJ, Xu K, Wang Z, Lerakis S, **Siegel RJ**, Thompson C, Gopal D, Keane M, Svensson L, Tuzcu EM, Smith CR, Leon MB. Hemodynamic Outcomes of Transcatheter Aortic Valve Replacement and Medical Management in Severe, Inoperable Aortic Stenosis: A Longitudinal Echocardiographic Study of Cohort B of the PARTNER Trial. *J Am Soc Echocardiogr.* 2014 Nov 20. Pii: S0894-7317(14)00751-2. Doi: 10.1016/j.echo.2014.10.009E, Nov 2014
- 305.) Rader F, Esha S, Arsanjani R, **Siegel RJ**. Left Ventricular Hypertrophy in Valvular Aortic Stenosis: Mechanisms and Clinical Implications. *The Am J Med* Nov 25. Pii: S0002-9343(14)0108-X. doi: 10.1016/j.amjmed.2014.10.054. [Epub ahead of print]
- 306.) Khachatryan T, Beigel R, Arsanjani R, **Siegel RJ**. The 'Inextricabilis Syndrome': a case with no solution. *Echoresearch and Practice*, ID: 14-0046, DOI: 10.1530/ERP-14-0044, December 2014
- 307.) Matsumoto T, Nakamura M, Yeow WL, Hussaini A, Ram V, Makar M, Gurudevan SV, Trento A, **Siegel RJ**, Kar S. Impact of Pulmonary Hypertension on Outcomes in Patients with Functional Mitral Regurgitation Undergoing Percutaneous edge-to-Edge Repair. *Am Journal of Cardiol* Dec 1;114:1735-9, 2014
- 308.) Beigel R, Wunderlick N, Ho SY, Arsanjani R, **Siegel RJ**. The Left Atrial Appendage: Anatomy, Functon, and Non-invasive Evaluation. *Jam Col Cardiology* 7:No. 12, 2014. Dec 2014:1251-65
- 309.) Grayburn PA, Carabello B, Hung JW, Gillam LD, Liang D, Mack MJ, McCarthy PM, Miller DC, Trento A, **Siegel RJ**. Defining "Severe" Secondary Mitral Regurgitation: Emphasizing an Integrated Approach. *J Am Coll Cardiol*, Vol 64, No. 25, Dec 2014, ISSN 0735-1097
- 310.) Beigel R, Wunderlich N, Kar S, **Siegel RJ**. The Evolution of Percutaneous Mitra Valve Repair Therapy: Lessons Learned and Implications for Patient Selection. *J AM Coll Cardiol* 2014;64(24):2688 doi: 10.1016/j.jacc.2014.08.049
- 311.) Beigel R, Wunderlick N, Ho SY, Arsanjani R, **Siegel RJ**. The Left Atrial Appendage: Anatomy, Functon, and Non-invasive Evaluation. *Jam Col Cardiology* 7:No. 12, 2014. Dec 2014:1251-65
- 312.) Hirotsugu M, Shibayama K, Harada K, Berdejo J, Itabashi Y, **Siegel R**, Jilaihawi H, Makkar R, Shiota T. Impact of Device Landing Zone Calcification on Paravalvular Aortic Regurgitation after Transcatheter Aortic Valve Replacement: A Real-Time Three-Dimensional Transesophageal Echocardiography Study. *J Am Col Cardiol* 2014;1102-41
- 313.) Nguyen BL, Capotosto L, Persi A, Placanica A, Rafique A, Piccirillo G, Gaudio C, Gang ES, **Siegel RJ**, Vitarelli A. Global and regional left ventricular strain indices in post-myocardial infarction patients with ventricular arrhythmias and moderately abnormal ejection fraction. *Ultrasound in Medicine and Biology* 41:407-17, 2015. DOI 10.1016/j.ultrasmedbio.2014.09.025, 2014

- 314.) Biner S, Topilsky Y, Banai S, **Siegel RJ**, Beigel R, Keren G, Finkelstein. Echo Doppler Estimation of Pulmonary Capillary Wedge Pressure in Patients with Severe Aortic Stenosis. *Echocardiography* 01/2015: DOI 10.1111/echo 12893
- 315.) Beigel R, Cercek B, **Siegel RJ**, Hamilton MA. Echo-Doppler Hemodynamics: An Important Management Tool for Today's Heart Failure Care. *Circulation* 131:1031-1034, 2015
- 316.) Parikh V, Kim C, **Siegel RJ**, Arsanjani R, Rader F. Natriuretic Peptides for Risk Stratification of Patients with Valvular Aortic Stenosis. *Circ Heart Fail* 8:373-380, 2015
- 317.) Chakravarty T, Van Belle E, Barbanti M, Ruck A, Testa L, Toggweiler S, Hutter A, Khawaja Z, Cheng W, Noheria A, Bedogni F, Jilaihawi H, **Siegel RJ**, Chakravarty T, Makkar R. Meta-analysis of the Impact of Mitral Regurgitation on Outcomes after Transcatheter Aortic Valve Implantation. *Am J of Cardiol* 115(7), Apr 2015. DOI:10.1016/amjcard 2015.01.022
- 318.) Itabashi Y, Shibayama K, Mihara H, Utsunomiya H, Berdejo J, Arsanjani R, **Siegel R**, Chakravarty T, Jilaihawi H, Makkar RR, Shiota T. Significant Reduction in Mitral Regurgitation Volume is the Main Contributor for Increase in Systolic Forward Flow in Patients with Functional Mitral Regurgitation after Transcatheter Aortic Valve Replacement: Hemodynamic Analysis Using Echocardiography. *Echocardiography*, 2015 Mar 26. Doi: 10.1111/echo12936 [Epub ahead of print]
- 319.) Ammi AY, Lindner JR, Zhao Y, Porter T, **Siegel R**, Kaul S. Efficacy and Spatial Distribution of Ultrasound-Mediated Clot Lysis in the Absence of Thrombolytics. *Thromb Haemost* 2015 Mar 26, 113(8). [Epub Ahead of Print]
- 320.) **Siegel RJ**, Luo H, Makar M, Beigel R. Optimal Use of Echocardiography in Valvular Heart Disease Evaluation. *Heart* 2015 Mar 23. Pii.heartjnl-2014-306293. Doi: 10.1136/heartjnl-2014-306293. [Epub ahead of print.]
- 321.) Rader F, Sachdev E, Arsanjani R, **Siegel RJ**. Left Ventricular Hypertrophy in Valvular Aortic Stenosis: Mechanisms and Clinical Implications. *The Am J Med* 128:344-52, 2015
- 322.) Douglas PS, Hahn RT, **Pibarot P**, Weissman NJ, Stewart WJ, Xu K, Wang Z, Lerakis S, **Siegel R**, Thompson C, Gopal D, Keane MG, Svensson LG, Tuzcu EM, Smith CR, Leon MB. Hemodynamic outcomes of transcatheter aortic valve replacement and medical management in severe, inoperable aortic stenosis: a longitudinal echocardiographic study of cohort B of the PARTNER trial. *J Am Soc Echocardiogr*. 2015 Feb;28(2):210-7.e1-9. doi: 10.1016/j.echo.2014.10.009. Epub 2014 Nov 20. PMID: 25455544
- 323.) Parikh V, Kim C, **Siegel RJ**, Arsanjani R, Rader F. Natriuretic Peptides for Risk Stratification of Patients with Valvular Aortic Stenosis. *Circ Heart Fail* 8:373-80, 2015. Doi: 10.1161/CIRCHEARTFAILURE.114.001649. PMID: 25783947
- 324.) Elboudwarej O, Wei J, **Siegel R**. Diagnosis of an Aortic Valvular Lesion. *Heart*. 2015 Jan 13. Pii: heartjnl-2014-306723. doi:10.1136/heartjnl-2014-306723. [Epub ahead of print]. PMID: 25586154



325.) Parikh V, Beigel R, Sokolov R, **Siegel RJ**. Case Report: Fever Endocarditis in a Patient with Bioprosthetic Heart Valves. *Infectious Diseases in Clinical Practice* 23(1):52-53, 2015

**Peer-Reviewed Manuscripts in Press:**

None.

**Non-Peer Reviewed Manuscripts**

1.) Wunderlich NC, Swaans MJ, Kux H, Beigel R, Siegel RJ. Echo Essentials for Endoluminal LAA Closure. *Cardiac Interventions Today*, March/April 2014

**Book Chapters:**

- 1.) **Siegel RJ**, Wyman MG, Cannom DS: Common cardiac arrhythmias. In *Ischemic and Valvular Heart Disease*, edited by Criley JM, French WJ, John Wiley Press, New York, 1981
- 2.) Lieber I, **Siegel RJ**, Shell WE: Role of prostaglandins in ischemic heart disease, in recent advances. In *Clinical Therapeutics*, edited by J. Yetiv and M. Bianchine. Vol III, Grune & Stratton, New York, 1983
- 3.) Criley JM, **Siegel RJ**: Angiography in hypertrophic cardiomyopathy: An integrated hemodynamic - angiographic approach. In *Hypertrophic Cardiomyopathy*, edited by Folkert Ten Cate. Marcel Dekker, Inc., New York, 1985
- 4.) Criley JM, **Siegel RJ**: A non-obstructive view of hypertrophic cardiomyopathy. In *Heart Muscle Disease*, edited by John Goodwin, MTP Press Limited, International Medical Publishers, London 1985
- 5.) Criley JM, **Siegel RJ**: Functional anatomy and pathophysiology of mitral prolapse. In *Mitral Valve Prolapse and Mitral Valve Prolapse Syndrome*, edited by H. Boudoulas and CF Wooley, Futura Publishers, New York, 1988
- 6.) Criley JM, **Siegel RJ**: Cardiac Catheterization in the Cardiomyopathies: In *Diagnostic and Therapeutic Catheterization*, edited by Carl Pepine, James Hill, and Charles Lambert, Williams and Wilkins, Baltimore, 1988
- 7.) Criley JM, **Siegel RJ**, Pelikan PCD: The influence of the Brock bias on our current understanding of hypertrophic cardiomyopathy, *Cardiomyopathy Update 2*. Edited by H. Toshima and B. Maron, Tokgo University Press, Tokyo, Japan 1989
- 8.) **Siegel RJ**, Pelikan PCD, Allen HN, Criley JM: Echo-Doppler in hypertrophic cardiomyopathy. In *Two-Dimensional Echocardiography and Cardiac Doppler*, edited by Jay N. Schapiro and John G. Harold, Williams and Wilkins, Baltimore, 1990

- 9.) **Siegel RJ**: Cardiovascular applications of therapeutic ultrasound. In echocardiography and Doppler in cardiac surgery, edited by Gerald Maurer, Igaku-Shoin, Tokyo, Japan, 1989
- 10.) Potkin BN, **Siegel RJ**: Intracoronary echo arteriography. I in Echocardiography and Doppler in Cardiac Surgery. Edited by Gerald Maurer, Igaku-Shoin, Tokyo, Japan, 1989
- 11.) **Siegel RJ**, Potkin BN: Intravascular ultrasound imaging. Clinical pathologic correlates (in: SPIE International Society for Optical Engineering) Proceedings SPIE V. 1068; 118, 1989
- 12.) Criley JM, **Siegel RJ**: Hypertrophic cardiomyopathy in: Current therapy in critical care medicine -2. Edited by Joseph E. Parriolo, B.C. Decker Inc., Philadelphia, 1990
- 13.) **Siegel RJ**, Ariani M, Fishbein MC, Chae JS, Bowers J, Forrester JS: Intravascular imaging: angioscopy, ultrasound and the development of three dimensional ultrasound reconstruction. Proceedings from 7th International Congress of Echocardiography, Rome, 5-7 April 1990. Edited by Armando Dagianti, Elsevier Science Publishers, Amsterdam, 1990
- 14.) **Siegel RJ**, Crew JR, Dean M, Ariani M, Cumberland DL: Intravascular ultrasound ablation edited by Tobis JR, Yock PG, in: "Intravascular Ultrasound Imaging", Churchill Livingstone Publications, New York, 1992
- 15.) **Siegel RJ**, Crew JR, Cumberland DL: Ultrasound angioplasty in: Cardiovascular imaging by ultrasound edited by Hanrath P, Uebis R, Aebis W, Kluwer Academic Publishers, Dordrecht, Netherlands, 1992
- 16.) **Siegel RJ**, Crew JR, Coy KM, Cumberland DL: Ultrasound angioplasty: An alternative to thermal angioplasty in: Endovascular Surgery (second edition) Edited by Moore WS and Ahn S, WB Saunders Company, Orlando, FL 1992
- 17.) **Siegel RJ**, Crew JR, Pflueger R, DonMichael TA, Dean M, Myler RM, Cumberland DC: Ultrasound angioplasty in future directions in Interventional Cardiology. Edited by Vogel J and King S. Mosby Yearbook Inc., Littleton, MA, 1992
- 18.) **Siegel RJ**, Cumberland DC, Crew JR: Ultrasonic recanalization of diseased arteries: from experimental to clinical application in Surgical Clinics of North America. Edited by Ahn S and Seager J. WB Saunders Company. Philadelphia, 1992
- 19.) Czer L, Ritter S, Maurer G, **Siegel RJ**: Transesophageal and epicardial color-flow doppler echocardiography in surgical repair of valvular ischemic and congenital heart disease in cardiac anesthesia. Edited by Joel A. Kaplan, W.B. Saunders, Philadelphia, 1992
- 20.) **Siegel RJ**, Steffen WS: Ultrasound Angioplasty in Interventional Cardiology, edited by Topol E, Second Edition, Saunders, 1993

- 21.) **Siegel RJ**: Ultrasound Angioplasty in Annual of Interventional Cardiology. Edited by Topol E. and Surreys P. Current Science, Philadelphia 1993
- 22.) **Siegel RJ**, Ortiz E: Hemodynamic and clinical findings in diseases of the heart muscle (cardiomyopathy) and pericardium in Hemodynamics monitoring. Edited by Gloria Darovic, W.B. Saunders, Philadelphia, 1995
- 23.) Steffen W, Fishbein MC, Luo H, Hamm C, Nishioka T, Maurer G, **Siegel RJ**: High Intensity, Low Frequency Catheter Delivered Ultrasound for Intravascular Clot Lysis. Edited by I. Kronzon, Williams and Wilkins, Baltimore, 1995
- 24.) Forrester JS, Litvack F, Eigler N, **Siegel RJ**: Coronary Angioscopy. Edited by Robert C. Schlant, In Diagnostic Atlas of the Heart, Atlanta, 1995
- 25.) **Siegel RJ**, Steffen W, Gunn J, Fishbein MC, Cumberland DC: Ultrasound Angioplasty. Edited by George Vetrovec and Blase Carabello, Futura Publishing Company, Armonk, 1995
- 26.) **Siegel RJ**, Fischell TA, Cumberland DC, Fishbein MC: Ultrasound angioplasty-experimental studies. In Ultrasound Angioplasty. Edited by Robert Siegel, Kluwer Academic Publishers, Boston, 1996
- 27.) **Siegel RJ**, Steffen W, Luo H, Marzelle J, Fishbein MC: High intensity, low frequency catheter delivered ultrasound for thrombus dissolution. In Ultrasound Angioplasty. Edited by Robert J. Siegel, Kluwer Academic Publishers, Boston, 1996
- 28.) Nita H, **Siegel RJ**: Technical aspects of a therapeutic intravascular ultrasound angioplasty system. In Ultrasound Angioplasty. Edited by Robert J. Siegel, Kluwer Academic Publishers, Boston, 1996
- 29.) Gaines PA, **Siegel RJ**, Cumberland DC: Clinical experience of percutaneous peripheral ultrasound angioplasty. In Ultrasound Angioplasty. Edited by Robert J. Siegel, Kluwer Academic Publishers, Boston, 1996
- 30.) Cumberland D, Gunn J, Nita H, **Siegel R**, Myler R: Ultrasound Angioplasty. Handbook of Cardiovascular Interventions. Edited by Ulrich Sigwart, Michel Bertrand and Patrick W. Serruys, Churchill Livingstone Publishers, 751-754, 1996
- 31.) **Siegel RJ**, Forrester JS: Advantages and Limitations of Intravascular Imaging Devices in Clinical Applications. ACC Current Journal Review 5:13-16, 1996
- 32.) Forrester J, Litvack F, Eigler N, **Siegel R**: Defining coronary pathology and clinical syndromes by coronary angioscopy. Coronary Stenosis Morphology: Analysis and Implication. Chapter 9. Edited by Lloyd Klein, Kluwer Academic Publishers, 1997

- 33.) Fishbein MC, **Siegel RJ**. Pathology of coronary atherosclerosis: Implications for intravascular ultrasound imaging. In *Intravascular Ultrasound Imaging in Coronary Artery Disease*. Edited by Robert J. Siegel, Marcel Dekker, Inc., New York, 1998
- 34.) Nishioka T, Luo H, Eigler NL, Tabak SW, **Siegel RJ**. Clinical application of IVUS imaging in a center with selective use of IVUS imaging. In *Intravascular Ultrasound Imaging in Coronary Artery Disease*. Edited by Robert J. Siegel, Marcel Dekker, Inc., New York, 1998
- 35.) Berglund H, Nishioka T, Luo H, Fishbein MC, **Siegel RJ**. Intravascular ultrasound assessment of regional remodeling in human atherosclerotic vessels. In *Intravascular Ultrasound Imaging in Coronary Artery Disease*. Edited by Robert J. Siegel, Marcel Dekker, Inc., New York, 1998
- 36.) Cumberland DC, Gunn J, Wales C, Myler RK, **Siegel RJ**: Therapeutic ultrasound in percutaneous coronary angioplasty - Sheffield Experience. Edited by Robert J. Siegel, Kluwer Academic Publishers, Boston, 1996
- 37.) **Siegel RJ**, Steffen W, and Cumberland DC. *Ultrasound Angioplasty. Textbook of Interventional Cardiology*. Edited by Eric J. Topol, W.B. Saunders Company Publishers, 1998
- 38.) Atar S. and **Siegel RJ**. *Cardiomyopathies and pericardial disease. Textbook of Hemodynamic Monitoring: Invasive and Noninvasive Clinical Application*. Edited by Gloria Oblouk Darovic, W. B. Saunders Company, Philadelphia, 1998
- 39.) **Siegel RJ**, Forrester JS. *Excimer Laser and Ultrasound Angioplasty. Textbook of Comprehensive Cardiovascular Medicine*. Edited by Eric J. Topol, Lippincott-Raven Publishers, Philadelphia, 1998
- 40.) Gunn J, Cumberland DC, **Siegel RJ**. *New developments in therapeutic ultrasound-assisted coronary angioplasty. Current Interventional Cardiology Reports*, 1999
- 41.) Atar S, Darovic GO, **Siegel RJ**. *Cardiomyopathies and pericardial disease. In Hemodynamic Monitoring, Third Edition*. Edited by Gloria Oblouk Darovic. W.B. Saunders Company. Philadelphia, PA, Pages 601-632, 2002
- 42.) Birnbaum Y, **Siegel RJ**. *Mechanical complications of acute myocardial infarction causing cardiogenic shock. In Contemporary Cardiology. Cardiogenic Shock: Diagnosis and Treatment*. Edited by David Hasdai et al. Humana Press Inc Publishers. Totowa, NJ, 2002.
- 43.) **Siegel RJ**, Cumberland DC, Newman C, Gunn J. *Ultrasound Angioplasty. In Textbook of Interventional Cardiology, 4<sup>th</sup> Edition*. Edited by Eric J. Topol, MD. W.B. Saunders Company. Philadelphia, PA, 2002
- 44.) Atar S, **Siegel RJ**. *Intravascular echo. In "Imaging in Cardiovascular Disease."* Edited by Gerald Pohost. Lippincott-Raven Publishers. Philadelphia, 2003

- 45.) **Siegel RJ**, Miyamoto T. In *The Ultimate Echo Guide*. Edited by Carols A. Roldan, M.D. Lippincott, Williams and Wilkins. Philadelphia, PA, 2004
- 46.) Siegel RJ. The catheter-delivered ultrasound for the treatment of coronary artery disease in the evolution of cardiac catheterization and interventional cardiology. Edited by Michel E. Bertrand, Iatric Press and the European Society of Cardiology. St. Albans, UK, 2006
- 47.) Atar S, Darovic GO, **Siegel RJ**. Cardiomyopathies and pericardial disease. In *Hemodynamic Monitoring, Fourth Edition*. Edited by Gloria Oblouk Darovic. Elsevier, Inc., Philadelphia, PA, 2006
- 48.) **Siegel RJ**. *Inside the Minds: The Art and Science of Cardiology*. Aspatore Books Publisher. Boston, MA, 2007
- 49.) **Siegel RJ**, Tolstrup K. Echocardiographic Assessment of the Aorta and Aortic Diseases. In *The Ultimate Echo Guide, 2<sup>nd</sup> Edition*. Edited by Carols A. Roldan, M.D. Lippincott, Williams and Wilkins. Philadelphia, PA, 2012
- 50.) **Siegel RJ**, Luo H. Echocardiographic Findings in Hypertrophic Cardiomyopathy. In *The Ultimate Echo Guide, 2<sup>nd</sup> Edition*. Edited by Carols A. Roldan, M.D. Lippincott, Williams and Wilkins. Philadelphia, PA, 2012
- 51.) **Siegel RJ**, Gurudevan S, Tolstrup K, Singh N, Luo H, Shiota T. 3D Echo for Guidance of Interventional in Structural Heart Disease. In *Atlas of Three-Dimensional Echocardiography*. Edited by Shernan, Lang, Mor-Avi, and Shirali. Lippincott, Williams and Wilkins. In press 2013.
- 52.) Castellanos J, Makar R, Jilaihawi H, **Siegel RJ**. Use of Transthoracic and Transesophageal Echocardiography in Evaluation of Patients Undergoing Transcatheter Aortic Valve Replacement. Edited by Min, Leipsig. Springer In press 2013.
- 53.) Castellanos J, **Siegel RJ**, Jilaihawi H, Chakravarty T, Makkar R. A Pictorial Imaging Essay on Complications of Transcatheter Aortic Valve Replacement. Edited by Min, Leipsig. Springer In press 2013.
- 54.) Kobal SL, Wilkof-Segev R, Patchett MS, Liel-Cohen N, Novack V, Bangalore S, **Siegel RJ**. Prognostic value of ischemic electrocardiographic response in patients with normal stress echocardiography study. *Am J Cardiol*, 2013
- 55.) Beigel R, **Siegel RJ** The use of echocardiography to assess cardiac hemodynamics and guide therapy. In: *Comprehensive textbook of echocardiography*. Editor: Navin Nanda, MD, 2014
- 56.) Beigel R, **Siegel RJ**. Aortic regurgitation – Pathophysiology. In: *Dynamic echocardiography*. Editors: Lang R, Goldstein SA, Mor-Avi V, Kronzon I, Khandheria BK, 2014
- 57.)

**Books:**

- 1.) Ultrasound Angioplasty - Editor, **Robert J. Siegel, M.D.**, Kluwer Publisher, Boston, Massachusetts, 1996.
- 2.) Intravascular Ultrasound Imaging in Coronary Artery Disease - Editor, **Robert J. Siegel, M.D.**, Marcel Dekker, Inc., Publisher, New York, N.Y., 1997
- 3.) Complex Cases in Echocardiography – Editor-in-Chief **Siegel RJ**, Wonderlich N. Lippincott, Williams and Wilkins, 2013

**Newsletters:**

- 1.) Cardiology Update - Editor, **Robert J. Siegel, M.D.**, WPI Communications, Springfield, New Jersey, 1996-2007, Quarterly.

**Letters to Editor**

- 1.) **Siegel RJ**, Criley JM, Roberts WC: Echocardiographic documentation of vegetative lesions. *Circulation* 62:1388, 1980.
- 2.) **Siegel RJ**, Siegel LE: Use of barbiturate suppositories. *Western J Med* 135:159, 1981.
- 3.) **Siegel RJ** Ginzton L, Criley JM: Cavity Obliteration. *Circulation* 65:836, 1982.
- 4.) Criley JM, **Siegel RJ**, Ginzton LE: Hypertrophic obstructive cardiomyopathy and Fabry's disease. *NEJM* 308:459, 1983.
- 5.) Hamm CW, Reimers J, Koster R, Terras W, Stiel GM, Koschyk DH, Kuck KH, **Siegel RJ**: Coronary ultrasound thrombolysis in a patient with acute myocardial infarction. *Lancet* 343:605-606, 1994.
- 6.) Gunn J, Wales C, Baig W, **Siegel RJ**, Cumberland D: Ultrasonic angioplasty for chronic total coronary occlusion. *Lancet* 344:1225, 1994.
- 7.) Nishioka T, Luo H, Berglund H, **Siegel RJ**: Significant difference of focal compensatory enlargement process between human coronary arteries and coronary saphenous vein bypass grafts. *Circulation* 94:2987-2988, 1996
- 8.) **Siegel RJ**, Luo H, Fishbein MC, Chaux A, Nishioka T: Absence of focal compensatory enlargement or constriction in bypass grafts. *Circulation* 94:3005-3006, 1996
- 9.) Berglund H, Luo H, Nishioka T, Eigler NL, Kim CJ, Tabak SW, **Siegel RJ**. Preserved vasodilatory response to nitroglycerin in saphenous vein bypass grafts. *Circulation* 1996;94:2871-2876
- 10.) Berglund H, Luo H, **Siegel RJ**. Preserved vasodilatory response to nitrates in saphenous vein bypass grafts. *Circulation* 1997;96:3785-3786
- 11.) Nishioka T, Berglund H, Luo H, Nagai T, **Siegel RJ**. How should we define inadequate coronary arterial remodeling? *Circulation* 1998;97:1424-1425

- 12.) Brasch AV, Khan SS, **Siegel RJ**. The poor man cooks with water. *Lancet* 356:856-857, 2000
- 13.) Naqvi, TZ, **Siegel RJ**. Determinants of survival in patients with paravalvular abscess. *Heart J*, e-Letter, July 4, 2005
- 14.) Naqvi TZ, **Siegel RJ**. Determinants of survival in patients with paravalvular abscess. *Heart*, July 4, 2005
- 15.) Naqvi TZ, **Siegel RJ**. Predictors of mortality in paravalvular abscess. *J Am Soc of Echocardiogr* 2005 Dec;18(12):1404-8
- 16.) Slipczuk L, Beigel R, Siegel RJ. Surgery vs Watchful Waiting for Mitral Regurgitation. *The J Am Med Assoc* 11/2013;310(19);2098-9
- 17.) Matsumoto T, Yeow WL, Nakamura M, **Siegel RJ**, Kar S. Reply. *JACC Cardiovasc Interv* 6:762-3, 2013

**Reviews:**

- 1.) McManus BM, Waller BF, Graboys TB, Mitchell JH, **Siegel RJ**, Miller Jr. HS, Froelicher VF, Roberts WC: Sudden cardiac death in athletes, a clinical pathologic review, Part I. *Current Problems in Cardiology*. December 1981
- 2.) McManus BM, Waller BF, Graboys TB, Mitchell JH, **Siegel RJ**, Miller Jr. HS, Froelicher VF, Roberts WC: Sudden cardiac death in athletes, a clinical pathologic review, Part II. *Current Problems in Cardiology*. December 1981
- 3.) Harold JG, Shell WE, **Siegel RJ**: Prostaglandins in cardiovascular medicine. *Cardiovasc Rev and Reports (Part I)*, 5:873, 1984
- 4.) Harold JG, Shell WE, **Siegel RJ**: Prostaglandins in cardiovascular medicine. *Cardiovasc Rev and Reports (Part II)*, 5:977, 1984
- 5.) Roberts WC, **Siegel RJ**: Measuring the QRS amplitude in all 12-leads in aortic valve stenosis in adults: a means of estimating the severity of the obstruction. *Primary Cardiology* 10:47, 1984
- 6.) **Siegel RJ**, Fishbein MC: The mitral valve. In *The Heart in Rheumatic Diseases*, edited by Sean Duggan. Butterworth Press, London, England 1984
- 7.) **Siegel RJ**, Shah PK, Fishbein MC: Restrictive cardiomyopathy of unknown cause. *Cardiology Board Review* 2:51, 1985
- 8.) **Siegel RJ**, Fishbein MC, Criley JM: Functional anatomy of the mitral valve in health and disease: Emphasis on rheumatologic disorders: Part 1. *Cardiovascular Rev and Reports*, 7:331, 1986

- 9.) **Siegel RJ**, Fishbein MC, Criley JM: Functional anatomy of the mitral valve in health and disease: emphasis on rheumatologic disorders: Part 2. *Cardiovascular Rev and Reports*, 7:431, 1986
- 10.) Criley JM, **Siegel RJ**: The new technologies should enhance, not replace, beside diagnostic skills in cardiology. *Modern Concepts in Cardiology Part I/Part II* 59:19-24, 1990
- 11.) Criley JM, **Siegel RJ**: The new technologies should enhance, not replace, beside diagnostic skills in cardiology. *Modern Concepts in Cardiology Part II* 59:25-30, 1990
- 12.) **Siegel RJ**: Ultrasonic angioplasty. *Proceedings of SPIE Modern Technologies Applied to Medical Practice*. Edited by Roy Potter, SPIE, Bellingham, WA 1321:69-77, 1990
- 13.) Birnbaum Y, Luo H, **Siegel RJ**. Evaluation of the coronary arteries by intravascular ultrasound and Doppler flow wires: Part I. *ACC Current Journal Review*,31-35, 1998
- 14.) Birnbaum Y, Luo H, **Siegel RJ**. Evaluation of the coronary arteries by intravascular ultrasound and Doppler flow wires: Part II. *ACC Current Journal Review*, 35-37,1998
- 15.) Nagai T, Luo H, Atar S, Tabak SW, **Siegel RJ**. Intravascular imaging of myocardial bridge. *Cardiovascular Interventions Online* #1, May 1998.
- 16.) Mintz GS, Nissen SE, Anderson WD, Bailey SR, Erbel R, Fitzgerald PJ, Pinto FJ, Rosenfield K, **Siegel RJ**, Tuzcu EM, Yock PG. American College of Cardiology Clinical Expert Consensus Document on Standards for Acquisition, Measurement and Reporting of Intravascular Ultrasound Studies (IVUS). *J American College of Cardiology* 37:1478-1492,2001
- 17.) Gunn, J, Cumberland DC, **Siegel RJ**. Ultrasound as Treatment for Coronary Artery Disease. *Echocardiography* 18:213-218, 2001
- 18.) Atar S, Luo H, Birnbaum Y, Hansmann D, **Siegel RJ**. The use of transducer-tipped ultrasound catheter for recanalization of thrombotic arterial occlusions. *Echocardiography* 18:233-238, 2001
- 19.) **Siegel RJ**, Atar S, Fishbein MC, Brasch AV, Peterson TM, Nagai T, Pal D, Nishioka T, Chae JS, Birnbaum Y, Zanelli C, Luo H. Noninvasive transcutaneous low frequency ultrasound enhances thrombolysis in peripheral and coronary arteries. *Echocardiography* 18:247-259, 2001
- 20.) **Siegel RJ**. Ultrasound Augmentation of Thrombolysis and Tissue Perfusion. *Clin Physiol Funct Imaging*, 2004.
- 21.) Slipczuk L, **Siegel RJ**, Jilaihawi H, Hussaini A, Kar S. Optimizing procedural outcomes in percutaneous mitral valve therapy using transesophageal imaging: a stepwise analysis. *Expert Rev Cardiovasc Ther* 10:901-16, 2012

**Editorials:**

- 1.) **Siegel RJ**. Therapeutic Ultrasound, *Echocardiography* 18:211-212, 2001



**Guidelines:**

- 1.) Focused Cardiac Ultrasound – Recommendations for Use and Training. Guidelines Document for the American Society of Echocardiography. In Press J Am Soc Echocardiography

**Clinical Pictures:**

- 1.) Brasch, AV, Atar S, **Siegel RJ**. Thrombus in the left atrial appendage. *Lancet* 357:266, 2001
- 2.) Valderrabano M, **Siegel RJ**. Images in Cardiology: The Imaging Spectrum of Apical Hypertrophic Cardiomyopathy. *Clin Cardiology* 27:49, 2004
- 3.) Goland S, Luo T, **Siegel RJ**. Images in Cardiology: Multiple intracardiac thrombi in patient with dilated cardiomyopathy. *Heart Journal* 92:1472, 2006

**Abstracts:**

- 1.) **Siegel RJ**, Haywood LJ, Sharma OP, Siegel M: T1-201 myocardial perfusion scans in systemic sarcoidosis. *Clin Res* 27:71, 1979
- 2.) Gottlieb ST, Caldwell J, **Siegel RJ**, Sharma OP, Siegel M, Siemsen JK, Haywood LJ: Dynamic and serial changes in myocardial sarcoid lesions detected by thallium scanning. *Chest* 76:3, 1979.
- 3.) **Siegel RJ**, O'Connor B, Mena I, Criley JM: Left ventricular function in scleroderma. *Circulation* 62:1228, 1980.
- 4.) **Siegel RJ**, Fishbein MC, Said JW, Shell WE: Development of immunohistochemical techniques for cardiovascular study. Los Angeles, Young Investigators Forum American Heart Association, 1982.
- 5.) Fishbein MC, **Siegel RJ**, Corson G, Block MI, Herscher LL, Shell WE, Said JW: Distribution of CK-M, CK-B, LDH<sub>1</sub> and myoglobin in normal, ischemic and necrotic myocardium. An immunohistochemical study. *Clin Res* 31(1): 8A, 1982.
- 6.) **Siegel RJ**, Fishbein MC, Said JW, Tokes Z, Shell WE: Localization of an alpha-1-acid glycoprotein in the myocardium by light and electron microscopic immunohistochemical techniques. *Circulation* 66:(Suppl II)II-334, 1982.
- 7.) **Siegel RJ**, Nathan M, Shah PK, Peter T, Shell WE: Abolition of refractory chest pain in unstable angina pectoris by prostaglandin E-1 infusion. *Circulation* 66:(Suppl II) II-18, 1982.
- 8.) **Siegel RJ**, Maurer G, Navatpumin T, Shah PK: Accurate non-invasive assessment of critical aortic valve stenosis in the elderly. *J Am Coll Cardiol* 1:639, 1983.
- 9.) Fishbein MC, **Siegel RJ**, Edwards GM, Block MI, Herscher LL, Shell WE, Said JW: Immunohistochemical location of CK-M, CK-B, LDH-1, GOT, and myoglobin in normal ischemic and necrotic myocardium. *Circulation* 68(Suppl III):795, 1983.

- 10.) Edwalds GM, Said JW, Block MI, Herscher LL, **Siegel RJ**, Shell WE, Fishbein MC: Focal myocytolysis of myocardium: Is it a reversible form of injury: *Circulation* 68(Suppl III):II-302, 1984.
- 11.) **Siegel RJ**, Criley JM: Enhanced ventricular emptying in the presence of a pressure gradient. A hemodynamic angiocardiographic study of hypertrophic cardiomyopathy. *Circulation* 70(Suppl II):II-302, 1984.
- 12.) Harold JG, **Siegel RJ**, Edwalds GM, Satoh P, Fishbein MC: Immunohistochemical localization of prostaglandin metabolites in canine and human vasculature. *Circulation* 70 (Suppl II):II-71, 1984.
- 13.) Maurer G, **Siegel RJ**: Assessment of hypertrophic cardiomyopathy by color flow mapping, continuous wave and high pulse repetition frequency doppler. *Circulation* 70(Suppl II):II-130, 1986.
- 14.) **Siegel RJ**, Ellis PS, Pelikan PCD, Maurer G, Criley JM: Pressure, flow, and velocity studies of experimentally produced intracavitary pressure gradients. *Circulation* 70(Suppl II):II-298, 1986.
- 15.) **Siegel RJ**, Fishbein MC, DonMichael TA: Ultrasonic and electrohydraulic atherosclerotic plaque dissolution. *Circulation* 76(Suppl IV)IV-46, 1987.
- 16.) Stone GW, Griffin B, Brown D, **Siegel RJ**, Maurer G, Berman D, Shah PK: Is diastolic dysfunction the cause of acute pulmonary edema with normal global systolic function. *Circulation* 76(Suppl IV) IV-514, 1987.
- 17.) Stone GW, Griffin B, Brown D, **Siegel RJ**, Maurer G, Cook S, Shah PK, Berman DS: Systolic and diastolic function in acute pulmonary edema: a prospective consecutive series. *Clin Nuc Med* 12:9S, 13, 1987.
- 18.) Maddahi J, Ostrzega E, Crues J, **Siegel RJ**, Honma H, Friedman J, Charuzi Y, Berman DS: Cine NMR imaging for quantification of left and right ventricular volumes, stroke volume ratio and regurgitant fraction. *Clin Nuc Med* 12:9S, 13, 1987.
- 19.) **Siegel RJ**, Moore K, Fishbein MC, DonMichael TA. Effects of variable ultrasonic energy duration, application mode and energy on atherosclerotic plaque ablation. *J Am Coll Cardiol* 11:172A, 1988.
- 20.) Maddahi J, Ostrzega E, Crues J, **Siegel RJ**, Honma H, Friedman J, Charuzi Y, Berman DS: Cine NMR quantification of left and right ventricular volumes, ejection fraction and regurgitant fraction in normal and patients with with aortic regurgitation. *J Nuc Med* 29:5, 802, 1988.
- 21.) Ostrzega E, Maddahi J, Crues J, Honma H, **Siegel RJ**, Charuzi Y, Friedman J, Berman DS: Application of cine cardiac magnetic resonance imaging in normals and patients with valvular, coronary artery and aortic disease. *J Nuc Med* 29:5, 802, 1988.
- 22.) **Siegel RJ**, DeCastro E, Forrester JS, DonMichael TA: In vivo ultrasonic recanalization of arterial occlusions. *Circulation* 78(Suppl II)1077, 1988.

- 23.) **Siegel RJ**, DonMichael TA, DeCastro E, Fishbein M, Hashemi Z, Adler L, Bookstein J, Forrester J: In vivo recanalization of total atherosclerotic arterial occlusions: combined use of an ultrasonic probe and balloon angioplasty system. *J Am Coll Cardiol* 13:195A, 1989.
- 24.) Kiat H, Maddahi J, Rozanski A, Friedman J, Bellil D, **Siegel RJ**, Bachur R, Kimsey P, Berman D. Characterization of patients with abnormal stress redistribution TL-201 spect and normal coronary arteries. *J Am Coll Cardiol* 13:99A, 1989.
- 25.) **Siegel RJ**, Cumberland DC, Myler RK, DonMichael TA: Ultrasonic angioplasty: Initial clinical experience. *Circulation* 80(Suppl IV) 1222, 1989.
- 26.) Demer LL, **Siegel RJ**: Artery compliance improves after ultrasonic ablation of atherosclerotic lesions. *J Am Coll Cardiol* 1989.
- 27.) Chae JS, Potkin BN, Helfant RH, **Siegel RJ**: Limitations of intravascular ultrasound imaging. *J Am Coll Cardiol* 15:104A, 1990.
- 28.) Chae JS, Hong AS, Dubin SB, Lee S, Fishbein MC, **Siegel RJ**: Ultrasonic dissolution of human thrombi. *J Am Coll Cardiol* 15:65A, 1990.
- 29.) **Siegel RJ**, Fishbein MJ, Chae JS, Potkin BN, Berlin M, Helfant RH: Origin of the 3-ringed appearance of human arteries by ultrasound: microdissection with ultrasonic and histologic correlation. *J Am Coll Cardiol* 15:17A, 1990.
- 30.) **Siegel RJ**, Chae JS, Hong A, Dubin SB, Lee S, Fishbein MC: Ultrasonic Clot Disruption. Arizona Heart Institute, Third International Congress on Endovascular Therapy (1990).
- 31.) **Siegel RJ**, Cumberland DC, Myler RK, DonMichael TA: Percutaneous peripheral ultrasonic angioplasty: Initial clinical experience. Arizona Heart Institute, Third International Congress on Endovascular Therapy (1990).
- 32.) **Siegel RJ**, Fishbein MC, Chae JS, Forrester JS, Helfant RH: Comparison of fiberoptic angioscopy and intravascular ultrasound imaging. Arizona Heart Institute, Third International Congress on Endovascular Therapy (1990).
- 33.) **Siegel RJ**: Intravascular ultrasound new applications for therapy and diagnosis. *Echocardiography* 7:44, 1990.
- 34.) **Siegel RJ**, Fishbein MC, Chae JS, Ariani M, Bowers J, Forrester JS: Comparison of fiberoptic angioscopy and intravascular ultrasound imaging. 7th International Congress of Echocardiography, Elsevier, Rome, 5-7 April 1990
- 35.) **Siegel RJ**, Ariani M, Chae JS, Bowers J, Forrester JS, Fishbein MC: Histopathologic validation of angioscopy and intravascular ultrasound. *Circulation* 82 (Suppl III):1819, 1990.

- 36.) Fischell TA, Abbas M, Grant GW, **Siegel RJ**: Ultrasonic energy causes dose dependent, endothelium independent arterial relaxation. *Circulation* 82(Suppl III):870, 1990.
- 37.) Ariani M, Fishbein MC, **Siegel RJ**: Angioscopically guided dissolution of arterial thrombi by ultrasound. *J Am Coll Cardiol* 17:278A, 1991.
- 38.) Rouillard VM, Fishbein MC, Coy KM, DonMichael TA, **Siegel RJ**: Is idiopathic dilated cardiomyopathy a reversible condition? *J Am Coll Cardiol* 17:219A, 1991.
- 39.) Coy KM, Lass T, Park JC, **Siegel RJ**: 3-Dimensional intravascular ultrasound facilitates the evaluation of arterial dissections following balloon angioplasty. *J Am Coll Cardiol* 17:157A, 1991.
- 40.) **Siegel RJ**, DonMichael TA, Crew JR, Belli A, Pflueger R, Procter A, Myler RK, Cumberland DC: Percutaneous ultrasound angioplasty: Acute and long term results. *J Am Coll Cardiol* 17:236A, 1991.
- 41.) Coy KM, Laas T, Park JC, **Siegel RJ**: Ability of 3-dimensional intravascular ultrasound in the identification of arterial dissection following balloon angioplasty. *Clinical Research* 39:89A, 1991.
- 42.) Coy KM, Park JC, Corday SR, **Siegel RJ**: Texture analysis of intravascular ultrasound arterial images as a means of tissue characterization. *Clinical Research* 39:118A, 1991.
- 43.) Marzelle J, Combe S, Mirshahi M, Soria J, Soria C, Mirshahi S, Dartevelle P, **Siegel RJ**: Catheter delivered ultrasound dissolves organized thrombi resistant to tissue plasminogen activator (tPA).
- 44.) **Siegel RJ**, Ariani M, Maurer G: Development of a simultaneous intravascular ultrasound and angioscopy system to enhance diagnostic evaluation. *J Am Coll Cardiol* 19:141A, 1992.
- 45.) **Siegel RJ**: Ultrasound angioplasty: Experimental and clinical studies. *Japanese Society of Echocardiography* 4:30, 1992.
- 46.) **Siegel RJ**, Crew JR, Gaines P, Procter A, Michael TD, Dean M, Cumberland DC: Peripheral ultrasound angioplasty: Does the technique have potential? *Angiology* 3:261, 1992.
- 47.) **Siegel RJ**, Ariani M, Combe S, Fishbein MC, Marzelle J: High intensity, low frequency ultrasound is effective in clot lysis. *Angiology* 43:264, 1992.
- 48.) Vassolo M, Ross D, **Siegel RJ**, Maurer G: Transesophageal echocardiography in lung transplantation: Assessment of distribution of blood flow and adequacy of pulmonary venous anastomosis. *J Am Coll Cardiol* 19:201A, 1992.
- 49.) **Siegel J**, Nita H, Steffen W, Fishbein MC, Passafaro J: Development of a flexible over-the-wire ultrasound coronary ablation catheter. *Circulation* 1-457, 1992.

- 50.) Basic M, Kimme-Smith C, **Siegel RJ**, Yigiter E, Corday S: Limitations of In-vitro intrasacular tissue characterization methods. *Medical Physics* 19:801, 1992.
- 51.) **Siegel RJ**, Kelly S, Steffen W, Crowley R, Koger J, Maurer G, Fishbein MC: Mechanisms of balloon angioplasty. A study using a combined balloon dilatation catheter and ultrasound imaging device. *J Am Coll Cardiol* 21:485A, 1993.
- 52.) **Siegel RJ**, Gaines P, Crew J, Michael AD, Nita H, Steffen W, Proctor, Cumberland DC: Clinical results of percutaneous ultrasound angioplasty in 50 patients with 55 peripheral arterial lesions. *J Am Coll Cardiol* 21:117A, 1993.
- 53.) Basic M, Smith CK, Yigiter E, **Siegel RJ**: Measurement of blood flow velocity is feasible with intravascular ultrasound. *J Am Coll Cardiol* 21:76A, 1993.
- 54.) Steffen W, Luo H, Nita H, Passafaro J, Fishbein MC, Maurer G, **Siegel JR**: Catheter delivered therapeutic ultrasound recanalizes thrombotically occluded canine coronary arteries. *J Am Coll Cardiol* 21:338A, 1993.
- 55.) Steffen W, Luo H, Nita H, Passafaro J, Fishbein MC, Maurer G, **Siegel RJ**: Catheter delivered high intensity low frequency recanalizes thrombotically occluded canine coronary arteries. *Clinical Research* 41:106A, 1993.
- 56.) Steffen W, Luo H, Cumberland DC, Gaines P, Fishbein MC, Maurer G, **Siegel RJ**: Catheter delivered high intensity low frequency ultrasound causes vasodilation in vivo. *Clinical Research* 41:11A, 1993.
- 57.) Gaines PA, Crew J, DonMichael A, Nita H, Steffen W, Procter AE, Cumberland DC, **Siegel RJ**: The early results of percutaneous peripheral ultrasound angioplasty in 50 patients. *Angiology* 44:1, 1993.
- 58.) **Siegel RJ**, Steffen W, Nita H, Fishbein MC: Development of a flexible, over-the-wire ultrasound coronary ablation catheter. *Angiology* 44:4, 1993.
- 59.) Marzelle, Luizy F, Vadrot D, Cormier F, Fichelle JM, Cormier JM, **Siegel RJ**: Combined intravascular ultrasound imaging and angioscopy before and after endovascular intervention. *Angiology* 44:14, 1993.
- 60.) Basic M, Kimme-Smith C, **Siegel RJ**, Yigiter E: Measurement of blood velocity using intravascular b-mode ultrasound. *J Ultrasound in Medicine* 12:S1-S92, 1993.
- 61.) **Siegel RJ**, Gunn J, Ahsan A, Tsikaderis D, Bowes R, Campbell S, Oakley D, Phadke K, Nita H, Myler R, Cumberland D: Percutaneous Coronary Ultrasound Angioplasty: Initial Clinical Experience. *European Heart J* 14:78A, 1993.

- 62.) **Siegel RJ**, Gunn J, Tsikaderis D, Wales C, Ahsan A, Bowes R, Campbell S, Oakley D, Myler R, Cumberland D: Therapeutic Ultrasonic Coronary Angioplasty: First 20 Cases. *Circulation* 88:1585, 1993.
- 63.) Gunn J, **Siegel RJ**, Wales C, Ahsan A, Bowes R, Tsikaderis D, Campbell S, Oakley D, Myler R, Cumberland D: Therapeutic Ultrasonic Coronary Angioplasty: Immediate and 24 Hour Quantitative Angiographic Assessment. *Circulation* 88:3469, 1993.
- 64.) Luo H, Steffen W, Cercek B, Lee DY, Maurer G, **Siegel RJ**: External Ultrasound Enhances Chemical Thrombolysis. *Circulation* 88:1414, 1993.
- 65.) Lau YK, Chen M, Czernin J, Ansari A, **Siegel RJ**, Shelbert H, Fishbein MC, Maurer G: Dobutamine echocardiography and PET for assessment of myocardial viability: Correlation with pathology in explanted hearts. *Circulation* 88:588, 1993.
- 66.) **Siegel RJ**, Luo H, Lee DY, Steffen W, Cercek B, Cumberland DC: Ultrasound dissolution of thrombus: Studies using three different types of ultrasound devices. *J Interventional Cardiology* 7:91, 1994.
- 67.) Cumberland DC, **Siegel RJ**, Gunn J, Myler R, Wales C: Therapeutic ultrasound in percutaneous coronary angioplasty: Initial Clinical Experience. *J. Interventional Cardiology* 7:93, 1994.
- 68.) Gunn J, Cumberland DC, **Siegel RJ**, Wales C, Myler RK, Ahsan A, Tsikaderis D, Bowes R, Campbell S, Oakley D: Potential Role of Therapeutic Ultrasound in Coronary Angioplasty (TUSCA). *J Am Coll Cardiol* 1A-484A:186A, 1994.
- 69.) Wolfgang S, Luo H, Gaines P, Cumberland DC, Maurer G, Nita H, Fishbein MC, **Siegel RJ**: Does high intensity, low frequency catheter delivered ultrasound induce vasodilation in Vivo? *J Am Coll Cardiol* 1A-484A:188A, 1994.
- 70.) Lee DY, Eigler N, Luo H, Steffen W, Tabak S, **Siegel RJ**: Intravascular coronary ultrasound imaging, is it useful? *J Am Coll Cardiol* 1A-484A:241A, 1994.
- 71.) Gunn J, Wales C, Tsikaderis S, Arata S, Ashan S, Bowes R, Campbell S, Oakley D, Gaines P, **Siegel RJ**, Cumberland D: Three niches for therapeutic ultrasound angioplasty. *European Heart J* 15:147, 1994.
- 72.) Gunn J, Cumberland D, de Scheerder I, Bertrand M, LaBlanche JM, McFadden E, Hamm C, Piessens J, **Siegel RJ**: Early results from the multicentre European registry of therapeutic ultrasonic coronary angioplasty. *European Heart J* 15:337, 1994.
- 73.) Nishioka T, Luo H, Tabak S, **Siegel RJ**: Lack of vascular remodeling in atherosclerotic saphenous vein grafts; An intravascular Ultrasound Study. *Circulation* 90:317, 1994

- 74.) Luo H, Nishioka T, Eigler N, Tabak S, **Siegel RJ**: Chronic vessel constriction is an important mechanism of restenosis after balloon angioplasty: An intravascular ultrasound analysis. *Circulation* 90:318, 1994.
- 75.) Freimark D, Czer LSC, Aleksic I, Bathold C, Trento A, Blanche C, Valenza M, **Siegel RJ**: Improved left atrial transport and function with orthotopic heart transplantation using bicaval and pulmonary venous anastomoses. *Circulation* 90:2248, 1994.
- 76.) Basic M, Kimme Smith C, **Siegel RJ**: Differentiation of clots from stagnant and slow moving blood using quantitative intravascular ultrasound. *Medical Physics* 21:999, 1994.
- 77.) Nishioka T, Luo H, Tabak S, Lepor N, Eigler N, Forrester JS, **Siegel RJ**: The evolving utility of intracoronary ultrasound. *J Am Coll Cardiol* Feb:174A, 1994.
- 78.) **Siegel RJ**, Luo H, Nishioka T, Eigler N, Tabak S: Chronic coronary arterial constriction is an important mechanism of restenosis after balloon angioplasty: An intravascular ultrasound analysis. *J of Endovascular Surgery* 2:109, 1995.
- 79.) Nishioka T, Luo H, Bond G, Kim CJ, Berglund H, **Siegel RJ**: Microbubbles markedly enhance ultrasound lctot dissolution. *Circulation* 92:I-260, 1995.
- 80.) Berglund H, Luo H, Nishioka T, Kim CJ, Tabak SW, **Siegel RJ**: Differential responses to nitroglycerin in native coronary arteries and saphenous vein grafts - An intravascular ultrasound study. *Circulation* 92:I-199, 1995.
- 81.) Berglund H, Haouzi A, Kim CJ, Nishioka T, Luo H, **Siegel RJ**: Differential alterations in the ascending aorta by pharmacological intervention in Marfan patients. *Circulation* 92:I-376, 1995.
- 82.) Kim CJ, Berglund H, Nishioka T, Luo H, **Siegel RJ**: Are aortic stenosis area determinations by echocardiography and cardiac catheterization equivalent? An analysis of agreement. *Circulation* 92:I-466, 1995.
- 83.) Steffen W, Bertrand ME, Hamm CW, Scheerder ID, LaBlanche JM, Reimers J, Gunn J, Piessens J, **Siegel RJ**, Cumberland DC: Multicenter experience with therapeutic ultrasound coronary angioplasty in symptomatic patients. *Circulation* 92:1570A, 1995.
- 84.) Luo H, Nishioka T, Forrester JS, Eigler NL, Kim CJ, Berglund H, **Siegel RJ**: Comparison of de novo and restenosis coronary artery lesions: An intravascular ultrasound study. *Circulation* 92:I-17, 1995.
- 85.) Khan S, Parikh A, Kar S, DeRobertis M, Chaux A, **Siegel R**: The Edwards pericardial valve in the small aortic root: Hemodynamics and evidence for regression of hypertrophy. *J Am Col Card* 205A, 1996

- 86.) Berglund H, Kim CJ, Nishioka T, Luo H, **Siegel RJ**: Influence of ejection fraction and aortic regurgitation on the accuracy of aortic valve area determination. *J Am Col Card*, 295A, 1996.
- 87.) Nishioka T, Amanullah AM, Luo H, Berglund H, Kim CJ, Eigler N, **Siegel RJ**: Clinical validation of intravascular ultrasound imaging for the diagnosis of critical coronary artery stenosis. *J Am Col Cardiol* 198A, 1996.
- 88.) Steffen W, Luo H, Fishbein MC, Hamm CW, **Siegel RJ**: Ultrasound induced thrombolysis is more effective than streptokinase induced thrombolysis in vitro. *J Am Col Card* 392A, 1996.
- 89.) **Siegel RJ**, Luo H, Eigler N, Berglund H, Kim CJ, Tabak S, Nishioka T: Intravascular ultrasound assessment of stenotic human coronary saphenous vein bypass grafts 8 to 23 years after implantation. *J of Endovascular Surgery* 3:86, 1996.
- 90.) Nishioka T, Luo H, Kim CJ, Berglund H, Eigler N, **Siegel RJ**: Inadequate Compensatory Enlargement Contributes to the Development of Coronary Artery Stenosis. *Circulation* 94:788A, 1996
- 91.) Nishioka T, Luo H, Fishbein MC, Cercek B, Forrester JS, Kim CJ, Berglund H, **Siegel RJ**: In Vivo ultrasonic clot disruption by combination of dodecafluoropentane and transcutaneous ultrasound. *Circulation* 94:499A, 1996
- 92.) Khan SS, Chau A, DeRobertis MA, **Siegel RJ**, Matloff JM: Factors predictive of regression of left ventricular hypertrophy after aortic valve replacement. *Circulation* 94:2587, 1996
- 93.) Grandia W, **Siegel RJ**, Bar-Cohen Y. Noninvasive spatially contained high-power ultrasonic system (NSHUS) for blood disintegration. *The Journal of the Acoustically Society of America* 99:2511, 1996
- 94.) Luo H, Nishioka T, Bar-Cohen Y, Berglund H, Kim CJ, Fishbein MC, **Siegel RJ**. Transcutaneous ultrasound, low dose streptokinase and EchoGen<sup>®</sup> are synergistic for the lysis of in vivo thrombotic occlusion. *J Am Col Cardiol* 29(Suppl. A):478A, 1997
- 95.) Nishioka T, Luo H, Nagai T, Hakamata N, Katsushika S, Uehata A, Takase B, Isojima K, Eigler NL, **Siegel RJ**. Impact of coronary artery remodeling on clinical manifestations of patients with de novo coronary artery lesions. *J Am Col Cardiol* 29(Suppl. A):125A, 1997
- 96.) Raina A, Chau A, Rurycz V, Luo H, **Siegel RJ**. Preservation of the subvalvular apparatus improves long term left ventricular dimensions and pulmonary artery pressure in patients undergoing mitral valve repair or replacement despite comparable left ventricular ejection fractions. *J Am Col Cardiol* 29(Suppl. A):188A, 1997
- 97.) **Siegel RJ**, Nishioka T, Luo H, Fishbein MC, Eigler NL, Tabak SW, Berglund H. Differential patterns of vascular remodeling in De Novo stenosis and restenosis in native coronary arteries and in the wall of saphenous vein bypass grafts. *J of Endovas Surg* 4(Suppl.I):I-36, 1997



- 98.) Klaar U, Baumgartner H, Wutte M, Khan S, DeRobertis M, Kong-Lau Y, **Siegel R**, Laufer G, Maurer. Prognostic value of dobutamine echocardiography in patients with coronary artery disease and severe left ventricular dysfunction. *J Am Col Cardiol* 39A:917-57, 1997
- 99.) Nagai T, Nishioka T, Amanullah AM, Luo H, Berglund H, Kim CJ, **Siegel RJ**. Clinical validation of intravascular ultrasound imaging for the assessment of the severity of coronary artery lesions. *Am J Cardiol* 80(Supplement):585, 1997
- 100.) Raina A, Birnbaum Y, Luo H, Ruryz V, Chaux A, **Siegel RJ**. Left ventricular remodeling after mitral valve surgery. There is a difference between repair and replacement with or without preservation of the subvalvular apparatus. *Circulation* 96(Supplement I):I468, 1997
- 101.) Birnbaum Y, Waner GS, Gates K, Criger DA, Sclarovsky, **Siegel RJ**, Granger CB, Ross AM. Precordial ST segment depression in inferior wall acute myocardial infarction: Different angiographic finding between right (V1-V3) versus left (V4-V6) leads. *JACC*31(Supplement):228A, 1998
- 102.) Nishioka T, Hakamata N, Uehata A, Katsushika S, Takase B, Isojima, Nagai T, Luo H, **Siegel RJ**. Inhomogeneity of coronary remodeling within the same artery - An intravascular ultrasound study. *JACC* 31(Supplement A):276A, 1998
- 103.) **Siegel RJ**, Luo H, Porter T, Nagai T, Fishbein MC, Birnbaum Y. Transcutaneous ultrasound is effective as an adjunctive therapy for thrombus dissolution: An In Vivo Study. *J Endovasc Surg* 5:I29-I30, 1998
- 104.) Birnbaum Y, Wager GS, Thompson TD, Barbash GI, **Siegel RJ**, Granter CB, Fishbein MC, Crenshaw BS, Califf RM, Rabin Medical Center. Ventricular septal defect in acute anterior wall myocardial infarction: Clinical and ECG variables associated with increased risk. *J of the Israel Heart Society (Supplement)*:49, 1998
- 105.) Birnbaum Y, Wagner GS, Barbash GI, Gates K, Criger DA, Sclarovsky S, **Siegel RJ**, Granger CB, Reiner JS, Ross AM, Rabin Medical Center, Israel. Correlation of angiographic findings and right (VI-V3) versus left (V4-V6) precordial ST-segment depression in inferior-wall acute myocardial infarction. *J of the Israel Heart Society (Supplement)*:55, 1998
- 106.) Naqvi TZ, Goel R, **Siegel RJ**. Can Dobutamine Echocardiography define prognosis in patients with recent onset idiopathic dilated cardiomyopathy? *J Am Society of Echocardiography* 11:508, 1998
- 107.) Dhar SC, Naqvi T, Hayes S, Birnbaum Y, Friedman A, Blanche C, **Siegel RJ**. Milrinone predicts myocardial viability: An echocardiographic study. *J Am Society of Echocardiography* 11:534, 1998
- 108.) Pallai L, Lewin HC, Malters E, Naqvi T, Kraus R, Allen H, **Siegel RJ**. The utility of repeat echocardiography in serially hospitalized patients. *J Am Society of Echocardiography* 11:552, 1998

- 109.) Atar S, Dhar SC, Nagai T, Luo H, **Siegel RJ**. Mitral annular calcification is an echocardiographic marker of significant coronary artery disease in patients younger than 65. *Circulation* 98(Supplement I):I-785, 1998
- 110.) Ahmed JM, Salame MY, Fearn S, Anthonies S, Wales C, Silverton PN, Zezulka AV, Northern Gen Hosp, Sheffield UK; **Siegel RJ**, Cumberland DC. Serial Ultrasound Plaque Evaluation in Remodeling after Plain Old Balloon Angioplasty (Super-Poba). *Circulation* 98(Supplement I):I-512, 1998
- 111.) Porter T, Li S, **Siegel RJ**, Deligonul U. Recanalization of Acutely Thrombosed Carotid and Coronary Arteries with Intravenous Perfluorocarbon Exposed Sonicated Dextrose Microbubbles and Transcutaneous Low Frequency Ultrasound Alone. *Circulation* 98(Supplement I):I-503, 1998
- 112.) Atar S, Luo H, Nagai T, Cedars-Sinai Med Ctr, Los Angeles, CA; Sahm RA, McCreery T, **Siegel RJ**, In-vivo Thrombolysis Using a High-Frequency Intravascular Transducer-Tipped Ultrasound Catheter and Local Drug Delivery in Canine Model. *Circulation* 98(Supplement I):I-398, 1998
- 113.) Khan SS, Trento A, Kass RM, DeRobertis MA, **Siegel RJ**. Long term Follow-up of Intraoperative Echocardiographic Decisions in Patients with Ischemic Mitral Regurgitation. *Circulation* 98(Supplement I):I-155, 1998
- 114.) Atar S, Luo H, Nagai T, Sahm RA, McCreery TC, **Siegel RJ**. Intravascular thrombolysis using transducer-tipped high-frequency ultrasound drug-delivery catheter in a canine model. *Am J Cardiol* 82:2S-3S, 1998
- 115.) Atar S, Dhar SC, Nagai T, Luo H, **Siegel RJ**. Mitral annular calcification is an echocardiographic marker of significant coronary artery disease in patients younger than 65. *Circulation* 98(Suppl I):I-785, 1998
- 116.) **Siegel RJ**, Eigler NL, Cannon LA. Percutaneous Therapeutic Ultrasound for Guidewire-Resistant chronic Total Coronary Occlusions. *J Endovasc Sur* 6:114, 1999
- 117.) Atar S, Cercek B, Nagai T, Luo H, Naqvi TZ, **Siegel RJ**. Bedside evaluation of new onset chest pain by transthoracic stress echocardiography using transophageal atrial pacing is comparable to nuclear perfusion stress imaging. *J Am Coll Cardiol* 33 (Suppl A):389A, 1999
- 118.) Nagai T, Atar S, Luo H, Mohsenifar Z, **Siegel RJ**. The combination of blood and agitated saline contrast enhances the Doppler echocardiographic assessment of tricuspid regurgitation flow and estimation of pulmonary artery pressure in patients with emphysema. *J Am Coll Cardiol* 33:304A, 1999
- 119.) Nagai T, Atar S, Luo H, Naqvi T, **Siegel RJ**. The usefulness of second generation ultrasound contrast agent to identify intracardiac thrombus. *J Am Coll Cardiol* 33 (Suppl A):408A, 1999
- 120.) Ahmed JM, Salame MY, Fearn S, Anthonies S, Wales C, Silverton PN, Zezulka AV, **Siegel RJ**, Cumberland DC. Proximal reference vessel undergoes more plaque progression than distal

- reference vessel after coronary stenting: One year serial intracoronary ultrasound follow-up. *J Am Coll Cardiol* 33 (Suppl A):75A, 1999
- 121.) Naqvi TZ, Goel RK, Davidson RM, **Siegel RJ**. Diastolic function is highly predictive of recovery of left ventricular systolic function in patients with new onset dilated cardiomyopathy. *J Am Coll Cardiol* 33 (Suppl A):408A, 1999
- 122.) Brasch A, Kong JHK, Chiu J, Naqvi TZ, Khan SS, **Siegel RJ**. Effect of aortic valve replacement in patients with aortic stenosis on the severity of concomitant mitral regurgitation. *J Am Society of Echocardiography* 12:368, 1999
- 123.) Brasch AV, Kong JHK, Chiu J, Naqvi TZ, Khan SS, **Siegel RJ**. Should transesophageal echocardiography be a routine preoperative examination for mitral regurgitation assessment in patients undergoing aortic valve replacement for aortic stenosis? *J Am Society of Echocardiography* 12:376, 1999
- 124.) Atar S, Luo H, Nagai T, Sahm RA, **Siegel RJ**. Transducer-Tipped high-frequency ultrasound local drug delivery catheter and low-dose urokinase for arterial thrombus dissolution in a canine model. *J Am Society of Echocardiography* 12:355, 1999
- 125.) Naqvi TZ, Neyman G, Broyde A, Barreto D, **Siegel RJ**. Assessment of left ventricular function with myocardial Doppler tissue velocities in normal patients and patients with left ventricular hypertrophy is superior to standard Pulse Doppler methods. *J Am Society of Echocardiography* 12:392, 1999
- 126.) Atar S, Nagai T, Cercek B, Luo H, Naqvi TZ, **Siegel RJ**. Rapid bedside evaluation of myocardial ischemia by transthoracic echocardiography and transesophageal atrial pacing in unstable angina: Validation by coronary angiography. *Circulation* 100(Suppl):I-290, 1999
- 127.) Naqvi TZ, Neyman G, Broyde A, **Siegel J**. Doppler tissue velocity improves the sensitivity and specificity of wall motion analysis of the basal inferior wall. *J Am Col Cardiol* 35:461A, 2000
- 128.) **Siegel RJ**, Atar S, Luo H, Brasch AV, Peterson TM, Pai D, Nagai T, Chae JS, Fishbein MC. Noninvasive transthoracic low frequency ultrasound greatly augments thrombolysis in a canine model of acute myocardial infarction. *J Am Col Cardiol* 35:407A, 2000
- 129.) Brasch AV, Luo H, Khan SS, DeRobertis MA, **Siegel RJ**. Planimetry of the aortic valve by transthoracic echocardiography is a feasible and reproducible method for assessing the severity of aortic stenosis. *J Am Col Cardiol* 35:535A, 2000
- 130.) Cannon L, **Siegel R**, Greenberg J, Rao R, Prpic R, Chan S, Popma JJ. Recanalization of total coronary occlusions using the Sonicross Low Frequency Ultrasound Catheter. *J Am Col Cardiol* 35:41A, 2000

- 131.) Atar S, Sharir T, Chiu J, Nagai T, Luo H, Agafitei D, Berman DS, **Siegel RJ**. Mitral annular calcification is highly correlated with abnormal myocardial perfusion SPECT in patients with angina pectoris under 65 years old. *J Am Col Cardiol* 35:482A, 2000
- 132.) Link J, **Siegel R**, Sterling K, Vorwerk D. Ultrasound-enhanced peripheral intra-arterial thrombolysis using rtPA. Preliminary results using the EKOS ultrasound infusion system. *J Endovasc Ther* 7:122, 2000
- 133.) Jeon DS, Luo H, Iwami T, Miyamoto T, Brasch AV, Mirocha J, Naqvi TZ, Kraus R, **Siegel RJ**. In vitro and in vivo analysis of superiority of 10% air-10% blood-80% saline mixture contrast echocardiography in assessing pulmonary artery systolic pressure. *Circulation* 104:II-431, 2001
- 134.) Jeon DS, Atar S, Brasch AV, Luo H, Mirocha J, Naqvi TZ, Kraus R, Berman DS, **Siegel RJ**. Association of mitral annulus calcification, aortic valve sclerosis, and aortic root calcification with coronary artery disease in subjects aged  $\leq$  65 years old. *Circulation* 104: II-354, 2001
- 135.) Luo H, Jeon DS, Miyamoto T, Cohen M, Iwami T, Tuero H, Atar S, Brasch A, Horzewski MJ, Fishbein MC, **Siegel RJ**. Enhanced coronary thrombolysis with transcutaneous ultrasound – In vivo study of a canine model of acute myocardial infarction. *Circulation* 104:II-725-726, 2001
- 136.) Demaria A, Crouse L, Wei K, Weiss J, Villanueva F, Schiller NB, Naqvi TZ, **Siegel R**, Monaghan M, Goldman J, Aggarwal P, Feigenbaum H. PB127 Phase 2 trial results: Concordance of perfusion echocardiography with stress SPECT. *Circulation* 104:II-497, 2001
- 137.) Raisanghani A, Wei K, Crouse LJ, Villanueva, F., Feigenbaum, H., Schiller, N. B., Aggarwal, P., Weiss, J., Naqvi, TZ., **Siegel, R.**, Goldman, JH, Monaghan, M. DeMaria, A.. Myocardial contrast echocardiography with triggered ultrasound does not cause ventricular premature beats: evidence from PB127 studies. *J Am Col Cardiol* 39:363A, 2002
- 138.) Wei K, Crouse L, Villanueva F, Feigenbaum H, Schiller NB, Weiss J, Monaghan M, Naqvi TZ, **Siegel RJ**, Goldman JH, DeMaria A. Patients with normal resting function need only undergo stress myocardial contrast echocardiographic imaging for detection of coronary disease. *J Am Society Echocardiography* 15:498, 2002
- 139.) Atar S, Feldman A, Darawshe A, Rosenfeld T, **Siegel RJ**. Usefulness of Hand-Held Echocardiography for Emergency Room Evaluation of Acute Chest Pain. *J Am Society Echocardiography* 16:504, 2003
- 140.) Chen M, Luo H, Miyamoto T, Rahban M, Makkar R, Kobal S, Neuman Y, Naqvi TZ, Tolstrup K, Atar S, **Siegel RJ**. A New Echo-Doppler Aortic Regurgitation Index Strongly Correlates with Angiographic Regurgitation Severity. *J Am Society Echocardiography* 16:510, 2003
- 141.) Kobal S, Pollick C, Atar S, Naqvi TZ, Miyamoto T, Neuman Y, Tolstrup K, Aslanian N, Luo H, Macrum B, **Siegel RJ**. Stress Echocardiography in Octogenarians: Transesophageal Atrial Pacing in Accurate, Safe and Well Tolerated. *J Am Society Echocardiography* 16:529, 2003

- 142.) Miyamoto T, Trento A, Denton T, De Robertis M, Jeon DS, Mirocha J, Naqvi TZ, Luo H, **Siegel RJ**. Echocardiographic Evaluation of Mitral Valve Repair Comparing Patients with Carpentier-Edwards Ring versus Fashioned Autologous Pericardial Band. *J Am Society Echocardiography* 16:536, 2003
- 143.) Naqvi TZ, Rafi F, Padmanabhan S, Huynh HK, Tolstrup K, **Siegel RJ**, Andrias V. Tissue Doppler Imaging Predicts in-Hospital Cardiac Events in Patients with First Acute Myocardial Infarction. *J Am Society Echocardiography* 16:538, 2003
- 144.) Atar S, Neuman Y, Miyamoto T, Chen M, Luo H, Kobal S, **Siegel RJ**. There is synergism of aspirin/Heparin with low frequency ultrasound for clot lysis: Potential for clinical application in acute coronary syndromes. *JACC* 41:324A, 2003
- 145.) Neuman T, Miyamoto T, Luo H, Jeon DS, Kobal S, Horzewski M, Mirocha J, Iwami T, Echt D, **Siegel RJ**. Noninvasive, Transcutaneous, Transthoracic Ultrasound Induces Coronary Vasodilation. *Circulation Supplement II* 106:278, 2003
- 146.) Miyamoto T, Trento A, Denton T, De Robertis M, Jeon DS, Mirocha J, Naqvi TZ, Luo H, **Siegel RJ**. Echocardiographic evaluation of mitral valve repair comparing patients with Carpentier-Edwards ring versus fashioned autologous pericardial band. *J Am Society of Echocardiography* 2003;16:536.
- 147.) V.Suchkova; C.W.Francis; H. Luo; R.B.Baggs; T.Miyamoto and **R.J. Siegel**. Ultrasound Improves myocardial perfusion in a canine model of myocardial infarction. Abstracts of the XIX Congress of the ISTH 2003. CD ROM Publication.
- 148.) SL Kobal, L Trento, S Baharami, K Tolstrup, TZ Naqvi, B Cercek, Y Neuman, J Mirocha, S Kar, JS Forrester, **RJ Siegel**. Rebirth of bedside cardiovascular examination using hand-carried ultrasound. *JACC* 2004; 43: 309A.
- 149.) Y Neuman, B Cercek, J Aragon, S Lee, S Kobal, T Miyamoto, H Luo, K Tolstrup, TZ Naqvi, Y Birnbaum, **RJ Siegel**. Left ventricular hypertrophy is associated with normal segmental wall motion at the site of myocardial infarction. *Circulation* 2004;110;1995
- 150.) K Tolstrup, BE Madsen, D Brisinda, CH Gertzen, AM Meloni, **RJ Siegel**, PA Smars, R Fenici. Resting magnetocardiographic imaging accurately detects myocardial ischemia in chest pain patients with normal or nonspecific ECG findings. *Circulation* 2004;110;3440
- 151.) K Hagsiwa, T Nishioka, S Umemura, B Takase, T Akima, F Ohsuzu, M Kikuchi, **RJ Siegel**. Enhancement of in vivo clot visualization and ultrasound thrombolysis using microbubbles targeted to activated platelets. *Circulation* 2004;110;3460
- 152.) Kahn A, **Siegel RJ**, Cotter B, Luo H, Bannach FG, Strachan GM, DeMaria AN. The effect of therapeutic ultrasound upon myocardial perfusion: Assessment by myocardial contrast echocardiography. *JACC* 2005;45;2A

- 153.) Tolstrup K, Brisinda D, Meloni AM, Cheung B, **Siegel RJ**, Fenici R. Comparison of resting magnetocardiography with stress single photon emission computed tomography in patients with stable and unstable angina. *JACC* 2006;47;176A
- 154.) Tolstrup K, Rashti S, Cheung B, Brisinda D, Meloni AM, **Siegel RJ**, Fenici R. Resting magnetocardiography detects ischemia with high accuracy in patients with acute coronary syndrome. *JACC* 2006;47;182A
- 155.) Akima T, **Siegel RJ**, Iida K, Luo H, Hagsisawa K, Nakanishi K, Nishioka T, Kusuhara M, Ohsuzu F, Kawai T. Atheromatous coronary plaque has lower distensibility than fibrous plaque: Comparison of intravascular ultrasound imaging and histopathological analysis. *JACC* 2006;47;367A
- 156.) Goland S, Czer LSC, Kass RM, **Siegel RJ**, Mirocha J, DeRobertis M, Raissi S, Cheung W, Fontana G, Coleman B, Trento A. Outcome in cardiac transplant recipients using donor allografts with left ventricular hypertrophy. *JACC* 2006;47;60A
- 157.) Goland S, Trento A, Eshaghian S, Czer LSC, Tolstrup K, De Robertis M, Akima T, Iida K, Luo H, Naqvi TZ, **Siegel RJ**. Comparison of Thoracic Aorta Atherosclerosis in patients with severe Aortic Stenosis with and without concomitant Coronary Artery disease, *J Am Soc Echocardiogr*, 2006
- 158.) Naqvi TZ, Rafique AM, **Siegel RJ**, Peter CT. Predictors of reduction in mitral regurgitation post cardiac resynchronization treatment. To be presented at ASE meeting Boston 2006. *J Am Soc Echocardiogr*, 2006
- 159.) Atar S, Akel R, **Siegel RJ**, Ye Y, Lin Y, Birnbaum Y. Low-frequency ultrasound increases activity and tissue content of nitric oxide synthase in acute limb ischemia in rabbits. *Eur Heart J* 2006;27;71
- 160.) Goland S, Czer LSC, Kass RM, **Siegel RJ**, Mirocha J, De Robertis M, Raissi S, Cheng W, Fontana G, Coleman B, Trento A. Outcomes in cardiac transplant recipients using donor allografts with left ventricular hypertrophy. *J Am Coll Cardiol* 2006; 47 (suppl A): 60A.
- 161.) Goland S, Trento A, Eshaghian S, Czer LSC, Tolstrup K, De Robertis M, Akima T, Iida K, Luo H, Naqvi TZ, **Siegel RJ**. Comparison of Thoracic Aorta Atherosclerosis in patients with severe Aortic Stenosis with and without concomitant Coronary Artery disease, *J Am Soc Echocardiogr*, 2006
- 162.) S.Goland, A.Trento, K.Iida, L.S.C Czer, K.Tolstrup, M.De Robertis, T.Akima, H.Luo, **R. J Siegel**. Assessment of Aortic Stenosis by Three-dimensional Echocardiography: Comparison with Standard Echocardiographic Techniques and Cardiac Catheterization. Accepted American Heart Association , Annual Scientific Meeting ,November 15, 2006, Chicago
- 163.) S. Goland, MD, L. S.C. Czer, MD<sup>1</sup>, R. M. Kass, MD, **R. J. Siegel, MD**, J. Mirocha, M. De Robertis, RN, J. Lee, B. Coleman, RN<sup>1</sup>, S. Raissi, MD, W. Cheng, MD, G. Fontana, MD and A. Trento, MD. Utilization of cardiac allografts with mild or moderate LVH is safe and can expand the donor pool. (accepted for ISHLT 27th Annual Meeting and Scientific Sessions, April 2007, San Francisco)

- 164.) S. Goland, MD, L. S.C. Czer, MD<sup>1</sup>, R. M. Kass, MD, **R. J. Siegel, MD**, J. Mirocha, M. De Robertis, RN, J. Lee, B. Coleman, RN<sup>1</sup>, S. Raissi, MD, W. Cheng, MD, G. Fontana, MD and A. Trento, MD. Utilization of cardiac allografts with mild or moderate LVH is safe and can expand the donor pool. (accepted for ISHLT 27th Annual Meeting and Scientific Sessions, April 2007, San Francisco)
- 165.) Sorel Goland, M.D., Lawrence S.C. Czer, M.D., **Robert J. Siegel M.D.**, Tasneem Z. Naqvi, MD, Zivari Kaveh, Rafique, Asim, MD, Robert M. Kass, M.D., Alfredo Trento, M.D. Changes in left and right ventricular function of donor hearts during the first year after heart transplantation using Tissue Doppler Imaging. Accepted for American Echo Society Meeting in Seattle 2007
- 166.) S Biner, A Rafique, F Rafii, C Chien, O Noorani, K Tolstrup, RJ Siegel. PISA and vena contracta have significant inter-observer variability in the assessment of mitral regurgitation, A Multicenter International Echocardiographic Study. *Circulation* 2008: 118;18, Suppl 2, 4695
- 167.) A Rafique, S Biner, I Ray, O Cuk, R Siegel, K Tolstrup. Abnormal aortic root elastic properties in family members of bicuspid aortic valve subjects, despite normal aortic valve morphology. *Circulation* 2008: 118;18, Suppl 2, 5770
- 168.) S Biner, A Rafique, I Ray, O Cuk, R Siegel, K Tolstrup. Aortic root dilatation is a phenotypic manifestation of the bicuspid aortic valve disease prevalent in relatives with normal aortic valve. *Circulation* 2008: 118;18, Suppl 2, 5771
- 169.) A Rafique, S Biner, A Wolak, K Tolstrup, S Gurudevan, **RJ Siegel**. Visual Assessment of Left Ventricular Mechanical Dyssynchrony Using Tissue Synchronization Imaging is as Reliable and Accurate as Manual Assessment. *J Am Soc Echocardiography* 2009: 22:579
- 170.) Rafique AM, Morrissey R, Naghi J, Siegel RJ, Tolstrup K, Gurudevan S. Diastolic function is a better predictor of survival than systolic function in patients with advanced heart failure. *Journal of Cardiac Failure* 2009 Aug;15(6): S96
- 171.) Rafique AM, Naghi J, Morrissey R, **Siegel RJ**, Tolstrup K, Naqvi TZ. Dyskinetic left ventricular segments have better velocity and strain compared to akinetic left ventricular segments. *Journal of Cardiac Failure* 2009 Aug; 15(6): S24-25
- 172.) Biner S, Rafique AM, Tolstrup K, **Siegel RJ**. Visual assessment of left ventricular mechanical dyssynchrony predicts response to cardiac resynchronization therapy. *Journal of Cardiac Failure*. 2009 Aug; 15(6): S74
- 173.) **Siegel RJ**, Perk G, Shiota T, Kronzon I, Slater J, Kar S, Hussani A, Biner S. Catheter Based, Percutaneous Mitral Valve Clipping – The Added Value of Real Time Transesophageal Echocardiography. *J Am Coll Cardiol* 2010; 55 (suppl A): 64A.
- 174.) Skolnick AH, Biner S, Perk G, **Siegel RJ**, Lang R, Sugeng L, Knight B, Chinitz L, Kronzon I, New York University, New York, NY, University of Chicago, Chicago, IL. The added value of real-time

- three dimensional transesophageal echocardiography in catheter-based, percutaneous left atrial appendage obliteration by the Watchman device. *J Am Coll Cardiol* 2010; 55 (suppl A): 76A.
- 175.) Naghi J, Morrissey R, Goykhman P, Rafique A, Biner S, **Siegel RJ**. Prognostic significance of diastolic dysfunction in unoperated severe aortic stenosis. *J Am Coll Cardiol* 2010; 55 (suppl A): 147A.
- 176.) Fukuoka Y, Shimada Y, Kuwahara E, Gurudevan S, Tolstrup K, **Siegel RJ**, Shiota T. Left atrial size and function are associated to secondary pulmonary hypertension in coronary artery disease. *J Am Soc Ecocardiogr* 2010;(23) B42.
- 177.) Gurudevan S, Padmasekera C, Doctor N, Doumanian A, **Siegel R**, Makkar R. Acute Hemodynamic Effects of Balloon Aortic Valvuloplasty and Percutaneous Aortic Valve Replacement on Left Ventricular Performance. Abstract P1-26, Poster presentation, ASE 21st Annual Scientific Sessions, June 12-15, 2010, San Diego, CA.
- 178.) Smith T, Gurudevan S, Cheng VY, Trento A, DeRobertis M, **Siegel R**, Berman DS. Assessment of the Morphologic Features of Degenerative Mitral Valve Disease Using 64-slice Multi-detector Computed Tomography. Abstract 112, Oral Presentation, SCCT 5<sup>th</sup> Annual Scientific Sessions, July 15-18, 2010, Las Vegas, NV
- 179.) Rafique AM, Phan A, Faramarz T, Teleten N, Biner S, **Siegel RJ**. Accuracy of the assessment of left atrial pressure using Doppler echocardiography. *Journal of Heart Failure Society of America*, 2010
- 180.) Scott Lim, Feldman T, Kar S, **Siegel RJ**, et al. EVEREST II Randomized Clinical Trial: Significant Reverse Left Ventricular Remodeling One Year Following MV Surgery and MitraClip Therapy. *JACC* 2010 Sep;56/13/Suppl B:TCT-101
- 181.) Serruys PW, Satler L, Boyce SW, **Siegel RJ**, et al. Three-year Follow-up of the Syntax Trial: Optimal Revascularization Strategy in Patients with Left Main Disease. *JACC* 2010 Sep;56/13/Suppl B:TCT-105
- 182.) **Siegel, RJ**. Role of TEE in Mitral Valve Repair with the MitraClip System. 2010 58<sup>th</sup> Annual Congress of the Israel Heart Society in association with the Israel Society of Cardiothoracic Surgery. Tel-Aviv, Israel.
- 183.) Izumo M, Kuwahara E, Fukuoka Y, Saito T, Gurudevan SV, Tolstrup K, **Siegel RJ**, Shiota T. Quantification of mitral valve prolapse using real-time three-dimensional transesophageal echocardiography: A comparison with two-dimensional transesophageal echocardiography. *JACC* 2011 Apr;57/14/Suppl A-188
- 184.) Kuwahara E, Izumo M, Fukuoka Y, Saito T, Gurudevan SV, Tolstrup K, **Siegel RJ**, Tei C, Shiota T. Geometry of ischemic mitral regurgitant jet: a color Doppler real-time three dimensional echocardiography study. *JACC* 2011 Apr;57/14/Suppl A-189



- 185.) Kar S, Buch MH, Hussaini A, Wertman BM, Makkar RR, Shirazi S, Gurudevan S, Shiota T, Tolstrup K, **Siegel R**. The safety and efficacy of percutaneous left atrial appendage closure for stroke prevention in atrial fibrillation patients: The experience of a large volume single center in the PROTECT AF Study. *JACC* 2011 Apr;57/14/Suppl A-558
- 186.) Saibal Kar, Mamta H. Buch, Asma Hussaini, Brett M. Wertman, Raj R. Makkar, Simmy Shirazi, Swaminathan Gurudevan, Takahiro Shiota, Kirsten Tolstrup, and **Robert Siegel**. The safety and efficacy of percutaneous left atrial appendage closure for stroke prevent in atrial fibrillation patients: The experience of a large volume single center in the protect AF study. *J. Am. Coll. Cardiol.*, April 5, 2011; 57: E1995.
- 187.) Masaki Izumo, Eiji Kuwahara, Yoko Fukuoka, Takeji Saito, Swaminatha V. Gurudevan, Kirsten Tolstrup, **Robert J. Siegel**, and Takahiro Shiota. Quantification of mitral valve prolapsed using real-time three-dimensional transesophageal echocardiography: A comparison with two-dimensional transesophageal echocardiography. *J. Am. Coll. Cardiol.*, April 5, 2011; 57: E849.
- 188.) Eiji Kuwahara, Masaki Izumo, Yoko Fukuoka, Takeji Saito, Swaminatha V. Gurudevan, Kirsten Tolstrup, **Robert J. Siegel**, Chuwa Tei, and Takahiro Shiota. Geometry of ischemic mitral regurgitant jet: A color Doppler real-time three-dimensional echocardiography study. *J. Am. Coll. Cardiol.*, April 5, 2011; 57: E850.
- 189.) Masaki Izumo, Eiji Kuwahara, Takeji Saitoh, Yoko Fukuoka, Swaminatha V Gurudevan, Kirsten Tolstrup, **Robert J Siegel**, Takahiro Shiota. Mechanism of Functional Mitral Regurgitation in Patients with Lone Atrial Fibrillation: A Real-time Three-dimensional Transesophageal Echocardiography Study. *J Am Soc Echocardiogr. Online Abstract*
- 190.) Masaki Izumo, Takeji Saito, Eiji Kuwahara, Yoko Fukuoka, Swaminatha V Gurudevan, Kirsten Tolstrup, **Robert J Siegel**. Takahiro Shiota. Non-Circular Shape of Right Ventricular Outflow Tract: A Real-Time Three-Dimensional Transesophageal Echocardiography Study. *J Am Soc Echocardiogr* 5:621-27. 2012
- 191.) Masaki Izumo, Eiji Kuwahara, Yoko Fukuoka, Takeji Saito, Swaminatha V Gurudevan, Kirsten Tolstrup, **Robert J Siegel**. Takahiro Shiota. Quantification of mitral valve prolapse by real-time three-dimensional transesophageal echocardiography: A comparison with two-dimensional transesophageal echocardiography. *Eur Heart J. Online Abstract P:5471*
- 192.) **Siegel RJ**. Low frequency therapeutic ultrasound causes vasodilation and enhanced tissue perfusion. *The Journal of the Acoustical Society of America*. October 2011;130:4aBA1.
- 193.) Wen-Loong, Takashi Matsumoto, **Robert Siegel**, Asma Hussaini, Mamoo Nakamura, Moody Makar, Amin Manuchehry, Rehan Kanji, Alfredo Trento, Saibal Kar. Acute changes in cardiac output following a mitraclip procedure are a powerful predictor of clinical outcomes. *American College of Cardiology* 1111-78, 2013

- 194.) Masaki Izumo, Eiji Kuwahara, Takeji Saitoh, Jun Tanaka, Yoko Fukuoka, Swaminatha V. Gurudevan, **Robert J. Siegel**, Takahiro Shiota. Geometric differences in mitral apparatus between different types of ischemic mitral regurgitant jet: A color Doppler real-time 3D transesophageal echocardiography study. J American College of Cardiology 1112M-83, 2013
- 195.) Yeow WL, Matsumoto T, **Siegel R**, Hussaini A, Nakamura M, Makar M, Manuchehry A, Kanji R, Trento A, Kar S. Acute Changes in Cardiac Output Following a Mitraclip Procedure are a Powerful Predictor of Clinical Outcomes. J Am Col Cardiol 1111-78, 2013
- 196.) Izumo M, Kuwahara E, Saitoh T, Tanaka J, Fukuoka Y, Gurudevan SV, **Siegel RJ**, Shiota T. Geometric Differences in Mitral Apparatus between Different Types of Ischemic Mitral Regurgitant Jet: A Color Doppler Real-Time 3D Transesophageal Echocardiography Study. J Am Col Cardiol 1112M-83, 2013
- 197.) Itabashi Y, Shibayama K, Mihara H, Berdejo J, **Siegel R**, Jilaihawi H, Makkar R, Shiota T. Relationship between Mitral Regurgitation and Left Ventricular Ejection Fraction and Stroke Volume after Transcatheter Aortic Valve Replacement. J Am Col Cardiol 1102-44, 2014
- 198.) Matsumoto T, Yeow WL, Hussaini A, Ram V, Nakamura M, Makar M, Gurudevan S, Trento A, **Siegel R**, Kar S. A Smaller Body Size is Associated with a Worse Safety Profile of the MitraClip Procedure. J Am Col Cardiol 2101-307, 2014
- 199.) Hirotsugu M, Shibayama K, Harada K, Berdejo J, Itabashi Y, **Siegel R**, Jilaihawi H, Makkar R, Shiota T. Value of Holodiastolic Flow Reversal in the Descending Aorta in Patients with Post-Procedural Aortic Regurgitation after Transcatheter Aortic Valve Replacement: An Intraoperative Transesophageal Echocardiography Study. J Am Col Cardiol 1195-349, 2014
- 200.) Shibayama K, Harada K, Berdejo J, Mihara H, Tanaka J, Gurudevan SV, **Siegel R**, Jilaihawi H, Makkar RR, Shiota T. Effect of Transcatheter Aortic Valve Replacement on the Mitral Valve Apparatus and Mitral Regurgitation: Real-Time Three-Dimensional Transesophageal Echocardiography Study. Circulation: Cardiovascular Imaging 7:344-351, 2014

## Patents:

### 1. ULTRASONIC BATH TO INCREASE TISSUE PERFUSION

Robert J. Siegel et al **Application number:** 12/520,041

**Publication number:**US 2010/0063423 A1

**Filing date:** Dec 19, 2007

### 2. TREATMENT FOR ANEURYSM

Robert J. Siegel et al

**Application**

**number:**

13/361,576

**Publication**

**number:US**

2012/0197244

A1

**Filing date:** Jan 30, 2012

**3. Methods and apparatus for atrioventricular valve repair**

Inventors: [Neal L. Eigler](#), [Matthew J. Price](#), [Robert J. Siegel](#)

Patent		number:		8172856
Filing	date:	Jul	28,	2003
Issue	date:	May	8,	2012
Application number: <a href="#">10/628,880</a>				

**4. BALLOON CATHETER AND METHODS FOR PERICARDIOCENTESIS AND PERCUTANEOUS ...**

Robert James Siegel et al

**Robert J. Siegel, M.D.**

**Application**

**Publication**

**Filing date:** Jul 23, 2010

**number:US**

**number:**

2011/0098672

92

12/842,323

A1