

I. Biographical and Bibliographic Information

A. Identifying data

1. Name: **Sung H. Chun, MD**
2. Ethnicity: Korean
3. Citizenship: United States

B. Academic history

1. Colleges and universities attended, degrees received, dates

- | | |
|-----------------|---|
| 9/1981 – 6/1985 | Stanford University
Bachelor of Science, Medical Microbiology |
| 7/1985 – 6/1989 | George Washington University School of Medicine
Doctor of Medicine |

2. Scholarships and honors

- | | |
|--------|---|
| 6/2003 | Teaching Award, Bio Design Engineering Program
Stanford University School of Medicine |
| 6/2004 | William Hancock Teaching Award in Cardiovascular Medicine
Stanford University School of Medicine |

3. Post-doctoral and residency training

- | | |
|-----------------|--|
| 7/1989 – 6/1990 | University of California at Los Angeles/Wadsworth
Intern, Internal Medicine |
| 7/1990 – 6/1992 | University of California at Los Angeles/Wadsworth
Resident, Internal Medicine |
| 7/1993 – 6/1996 | Stanford University Medical Center
Fellow, Cardiovascular Medicine |
| 7/1995 – 6/1997 | Stanford University Medical Center
Fellow, Cardiac Electrophysiology |

4. Board Eligibility and boards passed, with date(s)

- | | |
|------------|--|
| 1990 | National Board of Medical Examiners |
| 1993 | Diplomate, Internal Medicine, ABIM |
| 1997; 2009 | Diplomate, Cardiovascular Medicine, ABIM |
| 1999; 2010 | Diplomate, Cardiac Electrophysiology, ABIM |

5. Other study and research opportunities

Past research grants:

7/1995 – 6/1997

Recipient, NIH Cardiac Electrophysiology Training Grant

9/1997 – 12/1998

Co-Investigator: “Pacesetter Microny SR+ & Regency SR+ Single-Chamber Rate-Adaptive Pulse Generators with AutoCapture and the Passive Plus DX & Trendil DX Leads System Evaluation”. Sponsor: St. Jude Medical.

1/1998 – 12/1998

Co-Investigator: “Right Atrial Linear Ablation Protocol Using Multipolar Radiofrequency Microcatheter System” Phase II Multicenter Study. Sponsor: Cardima, Inc.

7/1998 – 12/1999

Co-Investigator: “Randomized Study to Evaluate the Efficacy and Safety of Midazolam Infusion to Maintain Conscious Sedation of Patients Undergoing Electrophysiology Study and Radiofrequency Ablation”. Sponsor: Pfizer, Inc.

7/2000 – 7/2001

Principal Investigator: “Evaluation of 8mm/10mm tip Radiofrequency Ablation Catheter”. Sponsor: EP Technologies, Inc.

2/1999 – 4/2004

Principal Investigator: “Cardiopulmonary Functional Assessment of Chronic Atrial Fibrillation Patients Undergoing Radiofrequency Atrioventricular Nodal Ablation and Permanent Pacemaker Implant”. Sponsor: Medtronic, Inc.

7/2000 – 4/2004

Co-Investigator: “In Sync MIRACLE ICD Trial”. Sponsor: Medtronic, Inc.

8/2001 – 4/2004

Principal Investigator: “Development and Feasibility Study of Pulmonary Vein Ostial Ablation RF Catheter” Phase I European Clinical Trial. Sponsor: Cardima, Inc.

10/2001 – 4/2004

Principal Investigator: “Left Ventricular-Based Cardiac Stimulation Post AV Node Ablation Evaluation (PAVE)”. Sponsor: St. Jude Medical.

10/2001 – 4/2004

Principal Investigator: “Home Monitoring Technology for Pacemaker Therapy: Multicenter Study”. Sponsor: Biotronik, Inc.

10/2001 – 4/2004

Principal Investigator: “Comparison of Medical Therapy, Pacing, and Defibrillation in Heart Failure (COMPANION). Sponsor: Guidant, Inc.

10/2001 – 4/2004

Principal Investigator: “Right Atrial Linear Ablation Protocol Using Multipolar Radio-frequency Microcatheter System” Phase III Multicenter Study. Sponsor: Cardima, Inc.

3/2002 – 4/2004

Principal Investigator: Spiral CT Protocol

7/2002-4/2004

Principal Investigator: “Left Ventricular-Based Cardiac Stimulation Post AV Node Ablation”

Sponsor: St. Jude Medical S.C., Inc.

Funded: \$75,750

10/2002-4/2004

Principal Investigator: “Home Monitoring Assessment Agreement

10/2002-4/2004

Principal Investigator: “Characterization of the effect of AV delay on peripheral vascular pressure and volume”

Sponsor: St. Jude Medical S.C., Inc.

Funded: \$24,855

10/2002-4/2004

Principal Investigator: “Home Monitoring Technology for ICD Therapy”

Sponsor: Biotronik, Inc

Funded: \$25,340

2/2003-4/2004

Principal Investigator: “Facilitation of CS Lead Placement for Bi-Ventricular Pacing Using Spiral CT”

Sponsor: Medtronic

Funded: \$ 42,610

5//2003-4/2004

Principal Investigator: “InSync ICD Post Market Registry Cardiac Resynchronization Therapy” Sponsor: Medtronic

Funded: \$29,490

Current research grants:

1/2009 – Present

Principal Investigator: “Non-invasive hemodynamics monitoring”

Sponsor: NASA
Funded: \$300,000

1/2010 - Present
Principal Investigator: "Ambulatory EEG monitoring"
Sponsor: Department Of Defense
Funded: \$300,000

10/2010 – Present
Co-investigator: "Cardiac Imaging and Electrophysiologic Procedures"
Sponsor: NIH
Funded

12/2012
Co-investigator: "Novel Approach in Mapping Atrial Fibrillation Electrophysiologic Activity"
Sponsor: NIH
Funded: Submitted; In Review

C. Employment history:

Academic Positions:

7/1997 – 8/1999	Attending Cardiologist Clinical Instructor Department of Medicine (Cardiovascular) Stanford University School of Medicine
9/1999 – 4/2004	Assistant Professor of Medicine (Cardiovascular) Stanford University School of Medicine
9/1999 – 4/2004	Director, Pacemaker & Device Services Stanford University Medical Center
7/1996 – 12/2005	Consultant, Cardiac Electrophysiology Palo Alto Veterans Affairs Health Care System
9/2001 – 4/2004	Program Director, Cardiac Electrophysiology Fellowship Stanford University School of Medicine
5/2004 – 1/2006	Clinical Assistant Professor (Cardiovascular) Stanford University School of Medicine

4/2011 – 5/2012 Consultant & Proctor, Cardiac Electrophysiology
San Francisco Veterans Affairs Health Care System

1. Non-Academic Positions:

7/1992 – 6/1993 Urgent Care Department, High Desert Medical Group
Lancaster, California

7/1997 – 4/2004 Director, Pacemaker Service
Stanford University Medical Center

7/1997 – 4/2004 Associate Director, Cardiac Electrophysiology
Stanford University Medical Center

5/2004 – Present Director, Cardiac Arrhythmia Service
Palo Alto Medical Foundation

11/2007 – 8/2010 Chief Medical Officer, Cardima, Inc.

1/2009 – 1/2012 Chief Medical Officer, Linea Research, Inc.

4/2011 – 5/2012 Proctor, Cardiac Electrophysiology
San Francisco Veterans Affairs Health Care System

2/2012 – Present Medical Consultant, Salutron, Inc.

D. Public and professional service

7/1997 – 4/2004 Implantable Cardioverter Defibrillator Patient Support Group
Stanford University Hospital

1/1997 – present Consultant, Salutron, Inc.
Fremont, CA

7/1998 – 4/2004 Editorial Reviewer, *Journal of Cardiovascular Pharmacological
Therapeutics*

7/2000 – 4/2004 Asian American Interactive Mentoring Program
Stanford University

7/2000 – 4/2004 Internal Medicine Internship Selection Committee
Stanford University School of Medicine

7/2001 – 4/2004	Washington Hospital sponsored Community Education Program: Health & Wellness Volunteer Speaker
7/2001 – 4/2004	Stanford Medical Youth Science Program (SMYSP): College and Health Options: Ideas Creating Excellence (CHOICE) Workshop leader
12/2002-4/2004	Editorial Reviewer for Kluwer Academic Publishers
2/2002 – 12/2002	Consultant, Venometrix, Inc. Palo Alto, CA
7/2005 – Present	Member, Editorial & Advisory Committee, <i>Japanese Journal of Arrhythmia</i>
1/2007- 1/2011	Board of Directors, Harmony of Hearts
1/2007 – 1/2011	Board of Directors, Beautiful Mind Ensemble
1/2013 – 12/2014	Advisory Board Member, Jordan International Aid
1/2015 – Present	Board of Directors, Jordan International Aid

E. Post-degree honors and awards, including memberships in professional associations and learned societies.

1993	Member, American Heart Association
1993	Member, American College of Cardiology
1996	Member, Heart Rhythm Society

F. Publications

1. Peer-reviewed articles [30]

1. **Chun SH**, Sager PT, Stevenson WG, Nademanee K, Middlekauff HR, Singh BN. Long-term efficacy of amiodarone for the maintenance of normal sinus rhythm in patients with refractory atrial fibrillation or flutter. *Am J Cardiol* 1995;76(1):47-50.

2. **Chun S**, Singh BN. Sudden death during flecainide therapy for atrial fibrillation complicating Wolff-Parkinson-White Syndrome. *J Cardiovasc Pharmacol Ther* 1996; 1(2):159-164.
3. Longuemare MC, Keung EC, **Chun S**, Sharp FR, Chan PH, Swanson RA. MK-801 reduces uptake and stimulates efflux of excitatory amino acids via membrane depolarization. *American J Phys* 1996;270(5 Pt 1):C1398-1404.
4. Desai AD, **Chun S**, Sung RJ. The role of intravenous amiodarone in the management of cardiac arrhythmias. *Ann Intern Med* 1997;127(4):294-303.
5. Liem LB, Mead RH, Shenasa M, **Chun S**, Hayase M, Kernoff R. Microwave catheter ablation using a clinical prototype system with a lateral firing antenna design. *Pacing Clin Electrophysiol* 1998;21(4 Pt. 1):714-721.
6. Liem LB, Daum J, **Chun SH**, Ottoboni LK, Gould M. Electrophysiologic Determinants of Paced-QRS Narrowing in Patients Undergoing Cardiac Resynchronization Therapy *Europace* 2001:73-78.
7. Day J, Liem B, Lauer M, Young C, Han J, Goold P, **Chun S**, Liem L.B. Management of diaphragmatic myopotential oversensing in implantable cardioverter defibrillators *Europace* 2001:583-588.
8. Liem LB, Day JD, Lee BK, **Chun SH**. Anatomic predictors of coronary sinus lead stability in patients undergoing cardiac resynchronization therapy. *Europace* 2001: 265-269.
9. Matsushita T, **Chun S**, Sung R. Influence of Isoproterenol on the accelerated junctional rhythm observed during radiofrequency catheter ablation of atrioventricular nodal slow pathway conduction *Am Heart J* 2001 Oct;142(4):664-668.
10. Matsushita T, **Chun S**, Chan NY, Glatter K, Day J, Sung R. Importance of using standard rather than torso ECG limb leads for pace mapping at the right ventricular outflow tract (RVOT) *Pacing Clin Electrophysiol* 2002 May;25(5):776-84
11. **Chun S**, Chan E. Feasibility and Safety of Using 4 French Radiofrequency Helical Microcatheter To Ablate Pulmonary Vein Ostium in Pig Model. *J Cardiovasc Electrophysiol* (Submitted, February 2002).
12. Partington S, Froelicher VF, Cho S, Myers J, **Chun S**. Prognostic Value of PVCs Noted on a Random Resting ECG. *Arch Intern Med* (Submitted, February 2002).
13. Partington S, Myers J, Cho S, Froelicher VF, **Chun S**. Prevalence and Prognostic Value of Exercise-induced Ventricular Arrhythmias. *Am Heart J*. 2003 Jan;145(1):139-46

14. Lewalter T, Burkhardt D, **Chun S**, Schimpf R, Bielik H, Schrickel J, Shlevkov N, Yang A, Luderitz B. Decremental intravenous pulse propagation during extrastimulus pacing: relevance for catheter ablation of focal atrial fibrillation. *Europace* (2002) 4, 411-415
15. Ghayoumi A, Raxwal V, Cho, S, Myers J, **Chun S**. Prognostic Value of Exercise Tests in Male Veterans with Chronic Coronary Artery Disease. *JCR* Nov/Dec 2002: 22 (6):399-408
16. Matsushita T, **Chun S**, Liem LB, Friday KJ, Sung RJ. Unidirectional Conduction Block at Cavotricuspid Isthmus Created by Radiofrequency Catheter Ablation in Patients with Typical Atrial Flutter. *J Cardiovasc Electrophysiol*. 2002 Nov;13(11):1098-102
17. Matsushita T, **Chun S**, Liem LB, Friday KJ, Sung RJ. Limited Predictive Value of Inducible Sustained Ventricular Tachycardia for Future Occurrence of Spontaneous Ventricular Tachycardia in Patients with Coronary Artery Disease and Relatively Preserved Cardiac Function. *J Electrocardiol*. 2003 Jul;36(3):205-11
18. Athwal H, Murphy G Jr, **Chun S**. Amiodarone-induced Delirium. *Am J Geriatr Psychiatry* 2003 Nov-Dec;11(6):696-7
19. Shah B, Yamazaki T, Engel G, Cho S, **Chun S**, Froelicher V. Computerized QT Dispersion Measurement and Cardiovascular Mortality in Male Veterans. *Am J Cardiol* 2004 Feb 15;;93(4):483-6
20. Matsushita T, **Chun S**, Liem LB, Friday KJ, Sung RJ. Significance of Inducible Ventricular Flutter/fibrillation in Risk Stratification in Patients With Coronary Artery Disease. *Int J Cardiol*. 2004Mar;94(1):67-71
21. Beckerman J, Mathur A, Stahr S, Myers J, **Chun S**, Froelicher V. Exercise-induced Ventricular Arrhythmias and Cardiovascular Death. *Ann Noninvasive Electrocardiol*. 2005 Jan;10(1):47-52
22. Engel G, Beckerman J, Froelicher V, Yamazaki T, Chen H, Richardson K, McAuley R, Ashley E, **Chun S**, Wang P. Electrocardiographic Arrhythmia Risk Testing. *Current Problems in Cardiology* (29):7:357-432, July 2004
23. Varma N, Stambler B, **Chun S**. Detection of Atrial Fibrillation by Implanted Devices with Wireless Data Transmission Capability. *PACE* 2005 Jan;28 Suppl 1:S133-6
24. Yamazaki T, Froelicher V, Myers J, **Chun S**, Wang P. Spatial QRS-T angle Predicts Cardiac Death in a Clinical Population. *Heart Rhythm* 2005;2:73-78
25. Beckerman J, Yamazaki T, Myers J, Boyle C, **Chun S**, Wang P, Froelicher V. T-wave Abnormalities are a Better Predictor of Cardiovascular Mortality Than ST Depression on the Resting Electrocardiogram. *Ann Noninvasive Electrocardiol*. 2005 Apr;10(2):146-51

26. Richardson K, Engel G, Yamazaki T, **Chun S**, Froelicher VF. Electrocardiographic Damage Scores and Cardiovascular Mortality. *Am Heart J*. 2005 Mar;149(3):458-63
27. Desai A, Yaw TS, Yamazaki T, Kaykha A, **Chun S**, Froelicher V. Prognostic significance of Quantitative QRS Duration. *The American Journal of Medicine* 119(7):600-6 August 2006
28. Day J, Doshi R, Belott P, Birgersdotter-Green U, Behboodikhah M, Ott P, Glatte K, Tobias S, Frumin H, Lee B, Merillat J, Wiener I, Wang S, Grogan H, **Chun S**, Patrawalla R, Crandall B, Osborn J, Weiss P, Lappe D, Neuman S. Inductionless or Limited Shock Testing Is Possible in Most Patients With Implantable Cardioverter-Defibrillators/Cardiac Resynchronization Therapy Defibrillators. *Circulation*, 2007;115:2382-2389
29. Engel G, Cho S, Ghayoumi A, Yamazaki T, **Chun S**, Fearon W, Froelicher V. Prognostic Significance of PVCs and Resting Heart Rate. *Annals of Noninvasive Electrocardiology* 12(2):121-9 April, 2007
30. Singh N, **Chun S**, Hadley D, Froelicher V. Clinical Implications of Technological Advances in Screening for Atrial Fibrillation. *Prog Cardiovasc Dis*. 2018 Jan-Feb;60(4-5)550-559.

2. Non-peer-reviewed articles [2]

- 1 **Chun S**, Sager P, Stevenson W, Nademanee K, Middlekauff H, Singh B. Can Amiodarone Maintain Normal Sinus Rhythm in Patients with Refractory Atrial Fibrillation or Flutter? *Cardiology Review* 1996;13(4):35.
2. Liem L.B, Eversull C.S, **Chun SH**. Accessibility of desirable Coronary Sinus Tributary Sites in Patients Undergoing Cardiac Resynchronization Therapy. *Clinical Cardiac Pacing and Electrophysiology* D219CO450 837-846, 2003

3. Books [0]

4. Book chapters [1]

1. **Chun S**. Radiofrequency Atrial Linear Ablation Using Microcatheters. *New Approaches and Technological Advances in Ablation Therapy*, ed. Eugene Donner, L. Bing Liem, Chapter 22, 2002 Dordrecht, Netherlands: Kluwer Academic Publisher.

5. Book reviews [0]

6. Abstracts [36]

1. **Chun S**, Lauer MR, Sung R, Liem LB, Young C. Alteration of typical atrial flutter circuit after apparent bi-directional conduction block through the isthmus between the inferior vena cava and tricuspid annulus. *J Am Coll Cardiol* 1997;29(2):33A.
2. Kixmiller J, Tsung B, Wise L, **Chun S**. Midazolam Infusion: Is It a Better Alternative Than Bolus Administration For Conscious Sedation? *Pacing Clin Electrophysiol* 2000;(23)4 (II):588.
3. Lee B, **Chun S**. ICD and Pacemaker Lead Extraction with the Excimer Laser American Heart Association 73rd Scientific Sessions, New Orleans, LA November 15, 2000.
4. Lee B, Alligemento T, Day J, Han J, Liem LB, **Chun SH**. Predictors for success of pacemaker and ICD leads explantation using excimer laser. *Eur J Card Pacing and Electrophysiol* 2000;10.
5. Day JD, Lee BK, Weiss P, Liem LB, Young C, Lauer MR, Han J, Ottoboni L, Greene N, **Chun SH**. Incidence of clinically significant diaphragmatic myopotential oversensing in implantable cardioverter defibrillators. *Pacing and Clin Electrophysiol* 2001;4(II):660..
6. **Chun S**. Using 3.7F Loop Catheter to Form Pulmonary Vein Circumferential Lesion. Cardiac Arrhythmias 7th International Symposium, Venice, Italy, October 2001.
7. **Chun S**. RF Temperature and Time Effect on Thrombus and Pulmonary Vein Stenosis. Cardiac Arrhythmias 7th International Symposium, Venice, Italy, October 2001.
8. Matsushita T, **Chun SH**, Liem LB, Friday KJ, Sung RJ. Significance of inducible ventricular flutter/fibrillation in risk stratification for prophylactic ICD implantation in patients with coronary artery disease. *Circulation* 2001;104:II-656
9. Desai AD, **Chun SH**, Friday KJ, Rezaee M, Liem LB. Analysis of factors influencing successful coronary sinus cannulationj during implantation of biventricular pacing system. *Circulation* 2001;104:II-418
10. Day JD, Liem LB, **Chun SH**, Lee BK, Weiss P, Young C,, Lauer ML, Han J, Ottoboni LK, Green N. Management of diaphragmatic myopotential oversensing in implantable cardioverter defibrillators. *Europace* 2001;2:B-40.
11. Liem LB, Daum J, Ottoboni LK, Gould M, **Chun SH**. Electrophysiologic determinants of paced-QRS narrowing in patients undergoing resynchronization pacing for heart failure. *Europace* 2001;2:B-10.

12. Desai AD, Liem LB, **Chun SH**, Friday K. Accuracy of the Ritter method in determining optimal atrio-ventricular delay in patients undergoing cardiac resynchronization therapy for congestive heart failure. *Pacing and Clin Electrophysiol* 2001;4(II):665
13. Wong WL, Lee I, **Chun S**, Liem B, Friday K, Sung R. The clinical value of using specific electrocardiogram criteria in predicting the site of the occluded artery in acute myocardial infarct patients undergoing emergency percutaneous coronary intervention. *J Am Coll Cardiol* 2002;39(5 Suppl A):121A.
14. **Chun SH**, Menezes D, Friday K, Liem LB. Is one month post-defibrillator implant defibrillation threshold testing necessary? *Pacing and Clin Electrophysiol* 2002;25:II-666
15. Matsushita T, **Chun S**, Liem LB, Friday KJ, Sung RJ. Unidirectional conduction block at cavotricuspid isthmus created by radiofrequency catheter ablation in patients with typical atrial flutter. *Pacing and Clin Electrophysiol* 2002;25:II-543
16. Chan F, Partik B, **Chun S**, Rubin G. Cardiac Vein Mapping with EKG-Gated Multi-Detector Row . Cardiac Vein Mapping with EKG-Gated Multi-Detector Row Computed Tomography. 88th Annual Meeting December 1-6, 2002 Chicago, IL
17. Niemann P, Robbins R, Shinn J, Liem B.L, **Chun S**, Friday K. Electrophysiologic Alterations Seen in Patients With Advanced Cardiac Failure After Angiotension Converting Enzyme Inhibitor Therapy, *J Am Coll Cardiol*, 2003
18. Richardson K, **Chun S**, Froelicher V. Optimal Electrocardiographic Prediction of Cardiovascular Mortality. *J Am Coll Cardiol*, 2003
19. Liem L, Eversull C, **Chun S**. Suitability of coronary sinus tributaries for left ventricular lead placement in patients undergoing cardiac resynchronization therapy. *Journal of the American College of Cardiology* 41(6):113-113 March, 2003
20. **Chun S**, Friday K, Chan A, Liem B.L. Clinical benefit and Technical Accuracy Evaluation of Wireless Home Monitoring Pacemaker System: Multicenter Clinical Trial Data. *J Am Coll Cardiol*, 2003
21. Desai A, Yamazaki T, Kaykha A, **Chun S**, Froelicher V. Prognostic Significance of Quantitative QRS Duration. *J Am Coll Cardiol*, 2003
22. Chen H, Yamazaki T, Reyes-Villa D, Froelicher V, Chun S. Benefit of Implantable Cardiac Defibrillators in Non-ischemic Cardiomyopathy Patients. Submitted to AHA, 2003
23. Duong T, Yue P, Heidenreich P, Froelicher V, Chun S. Electrocardiographic Characteristics As Predictors of Outcome In Patients With Asymptomatic Mitral Regurgitation. Submitted to AHA, 2003

24. Hsieh B, Tremmel J, Chun S, Froelicher V. Could Optimal Characterization of Electrocardiographic Left Ventricular Hypertrophy Improve Prognosis? Submitted to AHA, 2003
25. Narayan G, Chan F, Napoli A, Al-Ahmad A, Wang P, Tsiperfal A, **Chun S**. Enabling Rapid Coroanry Sinus Cannulation Using Pre-procedural 3D Anatomic Reconstructions from Contrast Enhanced Spiral CT. 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
26. Chen H, Yamazaki T, Reyes-Villa D, Froelicher V, Glassford M, Vagelos R, Fowler M, **Chun S**. Can Nonischemic Cardiomyopathy Patients Receive Mortality Benefit from Implantable Cardioverter Defibrillators? 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
27. **Chun S**, Al-Ahmad A, Vander Starre P, Fowler M, Vagelos R, Anderson T, Wang P. Can Cardiac Resynchronization Decrease Myocardial Oxygen Consumption? 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
28. Chen H, Liem LB, Gould M, Al-Ahmad A, Wang P, **Chun S**. Is Single Defibrillation Threshold Testing at ICD Implantation Adequate? 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
29. Chan F, Napoli A, Narayan G, Tsiperfal A, **Chun S**. An Optimized Protocol for Cardiac Gated Computed Tomography of the Coronary Veins for Pretreatment Planning. 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
30. Chan F, Napoli A, Narayan G, Tsiperfal A, **Chun S**. Effectiveness of Non-Contrast Enhanced Cardiac Gated Computed Tomography in the Evaluation of the Coronary Veins. 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
31. Yamazaki T, Engel G, Watt C, Myers J, **Chun S**, Froelicher V. Optimal Prognostication from the 12-lead ECG: Spatial angle between the QRS and T wave Complexes. Journal of the American College of Cardiology 43(5) March, 2004
32. Beckerman J, Yamazaki T, Myers J, **Chun S**, Wang P, Froelicher V. ST depression versus T wave amplitude on the Resting Electrocardiogram: Which is the better predictor of cardiovascular mortality? Journal of the American College of Cardiology 43(5) March, 2004
33. Chan F, Napoli A, Narayan G, Tsiperfal A, **Chun S**. Anatomy of the Coronary Venous System in Paitents with Left Heart Failure. 25th Scientific Session, Heart Rhythm Society, San Francisco, CA, May 2004
34. **Chun S**, Al-Ahmad A, Vander Starre P, Fowler M, Vagelos R, Anderson T, Wang P. Can Cardiac Resynchronization Decrease Myocardial Oxygen Consumption? Scientific Session, CardioStim, Nice, France, June 2004

35. **Chun S**, Narayan G, Chan F, Napoli A, Al-Ahmad A, Wang P, Tsiperfal A. Enabling Rapid Coroanry Sinus Cannulation Using Pre-procedural 3D Anatomic Reconstructions from Contrast Enhanced Spiral CT. Scientific Session, CardioStim, Nice, France, June 2004
36. Chen H, **Chun S**, Vagelos R, Fowler M, Wang P, Al-Ahmad A. Is Gender a Risk Factor for Mortality or Appropriate Shock in Patients with Nonischemic Cardiomyopathy Who Have Implantable Cardioverter Defibrillators? 26th Scientific Session, Heart Rhythm Society, New Orleans, Louisiana, May 2005

7. Invited presentations [30]

1. "ICD in Primary Prevention of Sudden Death." University of Iowa School of Medicine, Iowa City, IA, August 30, 1999.
2. "Radiofrequency Ablation Update." 2000 Cardiac Symposium: Update in Cardiology, Bakersfield, CA, and October 21, 2000.
3. "Syncope: Two Flavors." Grand Rounds, Internal Medicine, Stanford University School of Medicine, Stanford, CA, July 12, 2001.
4. "Telecare in Arrhythmia Management" The 5th Annual Meeting of the Hong Kong Telemedicine Association, January 25, 2002.
5. "Atrial Fibrillation: Rate vs. Rhythm Control" 2nd Annual Cardiac Services Symposium, Bakersfield, CA, February 24, 2002.
6. "A Combined Pulmonary Venous Mapping and Ablation Microcatheter System: Animal Data" Satellite Conference, NASPE 23rd Annual Scientific Session, San Diego, CA, May 10, 2002.
7. "New Directions in Device Therapy and Patient Management" 2002 Biotronik Symposium, Walnut Creek, CA, March 28, 2002
8. "Telecardiology in Pacemaker and ICD" On the Occasion of Cardiosim 2002 Symposium, Nice, France, June 19, 2002
9. "ICD Therapy: State-of-the-Art Management and Biventricular Pacing" Pacific Cardiology Arrhythmia Update, 2002
10. "Atrial Fibrillation: Rate vs. Rhythm Control" 2nd Annual Cardiac Services Symposium, Bakersfield, February 24, 2002

11. MADIT II “The Application of Evidence Based Medicine in your practice” Guidant’s Arrhythmia Management Seminar, Managing High Risk Patients: Integration of Device Therapies, Vail Colorado, January 2003
12. “Implantable Pacemakers and Defibrillators” Washington Hospital Community Education Program on Heart Arrhythmias, Fremont, CA , January 2002
13. “Tri-Chamber Pacing for VT Control” Advances in Cardiac Rhythm Management for EP Fellows, Newport Beach, CA, March 2003
14. “Wireless Home Monitoring Technique” Miami, FL, Nov, 2002
15. “Home Monitoring” Napa, CA, Nov, 2002
16. “Clinical Implications MADIT II” Hawaii, March, 2003
17. “Resynchronization Therapy” Hawaii, March, 2003
18. “Home Monitoring” Hong Kong. March, 2003
19. “MADIT II-Patient Population” Monterey, CA, April, 2003
20. “Atrial Fibrillation Suppression With Pacing”, San Francisco, May 2003
21. “Advances in Pacemaker & ICD Monitoring Technology, May 2003
Japanese Society of Pacing & Electrophysiology, Kyoto, Japan
22. “Prevention of Sudden Cardiac Death in Cardiomyopathy Patients, May 2003
Korea University, Seoul, Korea
23. “Optimal Pacing Strategy in ICD Patients, June, 2003
24. “DFT Testing: In Evolution?”, ASSURE Investigators’ Meeting
San Francisco, November, 2003
25. “Sudden Cardiac Death”, Stanford Cardiac Electrophysiology Symposium for Allied Health Professionals, San Mateo, CA, October, 2004
26. “Device Lead Extraction”, Berkeley, CA January 2005
27. “Electronic Medical Record & Remote Monitoring”, Clinical Tutorial Session
Heart Rhythm Society Scientific Session, New Orleans, Louisiana
May, 2005

28. “Device Infection: Ten Ways to Avoid Them”, Clinical Tutorial Session Heart Rhythm Society Scientific Session, Boston, MA May, 2006
29. “Device Infection: Five Ways to Avoid Them”, Clinical Tutorial Session Heart Rhythm Society Scientific Session, Denver, CO May, 2007
30. “Challenging Device Tracings”, Clinical Tutorial Session Heart Rhythm Society Scientific Session, Denver, CO May, 2007