

**Sumeet S. Chugh MD, FACC, FHRS, FAHA**  
<http://bio.csmc.edu/view/3497/Sumeet-S-Chugh.aspx>

## **CURRICULUM VITAE**

### **BRIEF BIOSKETCH**

Dr. Chugh is the Pauline and Harold Price Professor of Cardiac Electrophysiology, Director of the Heart Rhythm Center and Associate Director of the Heart Institute at Cedars-Sinai Los Angeles; and Professor of Medicine-in-Residence at the David Geffen School of Medicine at UCLA. He received his medical education at Punjabi University in India followed by an internship in internal medicine at the Tufts Newton-Wellesley Hospital program in Massachusetts and residency at Hennepin County Medical Center in Minneapolis. He trained as a fellow in cardiology at the University of Minnesota, and fellow in clinical cardiac electrophysiology at the Mayo Clinic, Rochester, MN. Dr. Chugh joined the faculty at Oregon Health and Science University, Portland, Oregon in 1999 and was appointed section chief of Clinical Electrophysiology in 2006. In 2008, he was recruited to the Cedars-Sinai Medical Center in Los Angeles. As Associate Director of the Heart Institute and Director of the Heart Rhythm Center he leads a clinical, teaching, and research operation that involves over 70 personnel, including 12 FTEs in clinical cardiac electrophysiology.

His scientific career has been dedicated to understanding the etiology and mechanisms of sudden cardiac death in the community, with the goal of improving management and prevention. For this purpose, he founded a real-time population cohort in an entire community of one million (The Oregon Sudden Unexpected Death Study, Oregon SUDS), bringing together all regional hospitals, the emergency medical system and the medical examiner to build a unique database of phenotyped patients linked to a biobank. Ongoing since 2002, this approach has helped to set the standard for population science approaches to sudden death. In 2015, he expanded the Oregon study to include a new population cohort of 850,000 in Ventura County, California under the PRESTO (PREdiction of Sudden death in mulTi-ethnic cOmmunities) umbrella that will allow for race and ethnicity-specific evaluation of sudden death risk predictors. The mechanisms, as well as, clinical, plasma, and genomic biomarkers his team continues to identify are being explored as tools to enhance management and prevention of sudden cardiac death.

He has been recognized by elected membership in the American Society for Clinical Investigation, the Howard Morgan Award for distinguished achievements in cardiovascular research, the Simon Dack Award, membership in the Association of University Cardiologists, Associate Editorship of IJC Heart & Vessels, Section Editorship of the JACC and other national and international scientific and leadership responsibilities. Today, his population science laboratory at the Cedars-Sinai Heart Institute in Los Angeles continues to mentor and collaborate with researchers who have an interest in investigation of sudden cardiac death. Dr. Chugh has led an independent and continuously funded research program since 2001 (R01 mechanism since 2007, currently two R01 grants) and has published over 180 peer-reviewed scientific papers (>127 original scientific papers, 29 review papers, 1 book review, 15 editorials, 8 letters), six book chapters, and more than 210 scientific abstracts in the fields of cardiac electrophysiology and sudden cardiac death. He is a frequent lecturer on sudden death and arrhythmia-related topics and has accepted more than 250 regional, national and international invited speaking engagements.

## PRESENT APPOINTMENT

Pauline and Harold Price Endowed Chair in Cardiac Electrophysiology  
Associate Director of the Heart Institute  
Section Chief, Clinical Cardiac Electrophysiology  
Director, Heart Rhythm Center  
Professor of Medicine at Cedars-Sinai  
Cedars-Sinai Medical Center, Los Angeles, CA, USA  
Professor of Medicine-In-Residence, David Geffen School of Medicine at  
UCLA, Los Angeles, CA, USA

### Office Address:

The Heart Institute  
Cedars-Sinai Medical Center  
Advanced Health Sciences Pavilion Suite 3100  
127, South San Vicente Blvd  
Los Angeles CA 90048  
(310) 423-3300

### Education:

### POST-GRADUATE TRAINING

*July 1 1997 to  
June 30 1999*

Fellow, Clinical Cardiac Electrophysiology  
Mayo Clinic, Rochester, MN

*July 1 1994 to  
June 30 1997*

Fellow, Cardiology  
University of Minnesota, Minneapolis, MN

*July 1 1992 to  
June 30 1994*

PGY-2,3 Resident (Internal Medicine)  
Hennepin County Medical Center, Minneapolis, MN

*July 1, 1991 to  
June 30, 1992*

PGY-1 Resident (Internal Medicine)  
Newton Wellesley Hospital, Tufts University, Boston, MA

*July 1, 1989 to  
June 30, 1991*

Research Associate  
Tufts New England Medical Center, Boston, MA

### UNDERGRADUATE TRAINING

*July 1983 to  
Dec 1988*

Medical School,  
Government Medical College, Patiala, Punjab, India  
Honors, graduated 3<sup>rd</sup> in class of 150

*July 1981 to  
June 1983*

Premedical Studies  
D.A.V. College, Chandigarh, India

**Licensure:** California Medical License, 2009-  
Washington Medical License 2008  
Oregon Medical License 1999-  
Minnesota Medical License 1993-  
DEA Certificate 1993-

**Board Certification:**

- American Board of Internal Medicine (Diplomate in Internal Medicine) 1993-2003
- American Board of Internal Medicine (Diplomate in Cardiovascular Disease) 1999 (valid 2019)
- American Board of Internal Medicine (Added Qualifications in Clinical Cardiac Electrophysiology) 2000 (valid 2020)

**Professional Experience:**

**ACADEMIC APPOINTMENTS**

2014- Professor of Medicine-in-Residence Step IV, David Geffen School of Medicine at UCLA

2011-2014 Professor of Medicine-in-Residence Step III, David Geffen School of Medicine at UCLA

2010- Professor of Human Genetics, Medical Genetics Institute, Cedars-Sinai Medical Center

2009- Pauline and Harold Price Chair in Cardiac Electrophysiology

2009- Professor of Medicine, Cedars-Sinai Professorial Series

2009- Professor of Emergency Medicine (Affiliate), Oregon Health & Science University

2008- Associate Director of the Heart Institute, Cedars-Sinai Medical Center

2008-2011 Professor of Medicine-in-Residence Step I, David Geffen School of Medicine at UCLA

2008- Section Chief, Clinical Cardiac Electrophysiology, Cedars-Sinai Medical Center

2008- Program Director, Fellowship Training Program in Clinical Cardiac Electrophysiology, Cedars-Sinai Medical Center

2006-2008 Section Chief, Clinical Cardiac Electrophysiology, Oregon Health & Science University

2006-2008 Director, Cardiac Arrhythmia Center, Oregon Health & Science University

2003-2008 Associate Professor of Medicine, Oregon Health & Science University

2007-2008 Associate Professor of Anesthesiology & Perioperative Medicine

2008-2009 Associate Professor of Emergency Medicine, Oregon Health & Science University

2002-2008 Director, Fellowship Training Program, Clinical Cardiac Electrophysiology, Oregon Health & Science University

2001-2006 Director, Heart Rhythm Research Laboratory, Oregon Health & Science University

2005-2008 Graduate Faculty, School of Medicine, Oregon Health & Science University

1999-2003 Assistant Professor of Medicine, Oregon Health & Science University

## **Leadership and Program Development:**

***Oregon Health & Science University, Portland OR:*** In 2002 Dr. Chugh founded (and continues to lead) The Oregon Sudden Unexpected Death Study (Oregon SUDS). This population-based effort studies the entire population of the Portland Oregon metro area, comprising approximately one million residents. Besides Dr. Chugh's core scientific team, the research group involves 16 hospitals, a network of medical examiners, and all fire and ambulance crews in the Portland area. This effort has been productive, leading to over 50 published peer-reviewed papers and over \$15 million in academic funding (including unbroken NIH R01 mechanism grants since 2007). As Section Chief, Clinical Electrophysiology (2006-08), he established the first clinical outreach in electrophysiology in a secondary service area with enhancement of clinical EP volume at the University by approximately 30% per year.

***Cedars-Sinai Medical Center, Los Angeles CA:*** As the first Associate Director of the Heart Institute to be appointed, Dr. Chugh worked with the Director to grow and expand the clinical, teaching, and academic programs. Since 2008, the Heart Institute has approximately doubled in size with total staff and personnel that exceed 600. As Director of the Heart Rhythm Center, Dr. Chugh leads a staff of >65, which includes clinical electrophysiologists (12 FTE, both academic and private practice colleagues), clinical/research trainees, allied health providers, and researchers. This is a busy clinical practice that has at least doubled in size since Dr. Chugh took over. As an example, in FY 2014, >4000 interventional EP procedures were performed by the extended group. On the scientific front, as of 2015, he has expanded the Oregon study to include a new population cohort of 850,000 in Ventura County, California under the PRESTO (PREdiction of Sudden death in mulTi-ethnic cOMmunities) umbrella that will allow for race and ethnicity-specific evaluation of sudden death risk predictors.

## **Professional Activities:**

### **COMMITTEE RESPONSIBILITIES (NATIONAL LEVEL)**

- |       |   |
|-------|---|
| 2016- | Member (Ad hoc), Cancer, Heart, and Sleep Epidemiology Study Section [CHSA], Center for Scientific Review, National Institutes of Health                                      |
| 2016- | Member (Ad hoc), Clinical and Integrative Cardiovascular Sciences Study Section [CICS], Center for Scientific Review, National Institutes of Health                           |
| 2016- | Member, Observational Safety and Monitoring Board, Lifestyle and Exercise in Hypertrophic Cardiomyopathy/Lifestyle and Exercise in the Long QT Syndrome Study funded by NHLBI |
| 2016  | Invited expert, NHLBI Prevention of Sudden Cardiac Death Workshop   |
| 2016- | Appointed Council Member, Association of University Cardiologists   |
| 2016- | Member, Heart Rhythm Society, Quality Initiatives Task Force  |
| 2015- | Member, Young Investigator Awards Subcommittee, Heart Rhythm Society  |

2014- Member, Advisory Committee, National Registry for Sudden Death in the Young

2014- Member, North American Council, International Academy of Cardiovascular Sciences

2013- Phase 1 reviewer, 2013 NIH Director's New Innovator Award Program (ZRG1 MOSS-C)

2008-2012 Charter Member, Electrical Signaling, Ion Transport, and Arrhythmias Study Section (ESTA), Center for Scientific Review, National Institutes of Health

2008-2009 Member, American Heart Association Peer Review committee for Electrophysiology Research (National)

2010- Member, American Heart Association Peer Review committee for Genomics and Observational Epidemiology (National)

2009- ACC/AHA Electrophysiology Data Standards Update Writing Committee

2008-2009 Member, Steering Committee, NHLBI-Heart Rhythm Society Working Group on Prediction and Prevention of Sudden Cardiac Death

2008 Reviewer (Ad hoc), Cardiovascular and Sleep Epidemiology Study Section (CASE), Center for Scientific Review, National Institutes of Health

2007 Reviewer (Ad hoc), Special Emphasis Panel, Vascular Cell and Molecular Biology Study Section (VCMB), Center For Scientific Review, National Institutes of Health

2007-2008 Reviewer (Ad hoc), Electrical Signaling, Ion Transport, and Arrhythmias Study Section (ESTA), Center for Scientific Review, National Institutes of Health

2007 Reviewer (Ad hoc), Bioengineering, Technology and Surgical Sciences Study Section (BTSS), Center for Scientific Review, National Institutes of Health

2007-2009 Chair, National Clinical Research and Training Committee, Heart Rhythm Society

2007-2009 Member, National Sudden Cardiac Arrest 360 Task Force, Heart Rhythm Society

2006-2009 Member, National ICD Registry, Research and Publications Subcommittee

- 2006-2007 Member, Scientific Advisory Board, International Academy of Cardiology
- 2006 Reviewer (Ad hoc), Special Emphasis Panel (ZRG1 CVS D-90) National Heart Lung Blood Institute
- 2005-2007 Chair, Nominating Committee, Functional Genomics Interdisciplinary Working Group, American Heart Association
- 2005-2007 Membership and Communications Committee, Working Group on Functional Genomics and Translational Biology, American Heart Association
- 2005-2006 Vice-Chair, National Clinical Research and Training Committee, Heart Rhythm Society
- 2005-2006 Chair, Fellowship Sub-committee, Heart Rhythm Society
- 2005-2006 Member, Legislative Task Force on Sudden Cardiac Arrest, Heart Rhythm Society
- 2004 National Strategic Planning Task Force, Heart Rhythm Society

**INTERNATIONAL COMMITTEES / LEADERSHIP**

- 2008- Chair, Arrhythmia Expert Panel, World Health Organization Global Burden of Disease Project
- 2012- Member, Scientific Advisory Board, Asia-Pacific Heart Rhythm Society Annual Scientific Sessions
- 2013- Reviewer, Singapore National Medical Research Council Translational and Clinical Research Flagship Program
- 2014- Member, Scientific Advisory Board, European Cardiac Arrhythmia Society Scientific Sessions
- 2014- Member, Scientific Program Development Committee, CardioRhythm Sessions, Hong Kong

**EDITORIAL RESPONSIBILITIES:**

*Section Editor (Rhythm Disorders):* Journal of the American College of Cardiology (2014 - )

*Associate Editor (Sudden Death):* International Journal of Cardiology, Heart & Vessels (2013 - )

*Chapter Coordinator:* European Society of Cardiology Textbook of Cardiovascular Medicine (2016)

*Guest Editor*

- Circulation (Sep 2013 - )
- Journal of the American College of Cardiology (2014 - )

*Guest Editor (ad hoc)*

- Heart Rhythm Journal

*Member, Editorial Boards:*

2013-	Arrhythmia Grand Rounds: Patient-Based
2012-	International Journal of Cardiology: Heart and Great Vessels
2012-	Experimental & Clinical Cardiology
2011-	Journal of the American College of Cardiology
2011-	Journal of Cardiac Failure
2010-	Circulation
2010-	Heart Rhythm journal
2010-	Journal of Interventional Cardiac Electrophysiology
2005-2010	Journal of Cardiovascular Pharmacology and Therapeutics

*Reviewer:*

- Circulation
- Circulation: Arrhythmia and Electrophysiology
- Circulation: Cardiovascular Quality and Outcomes
- Circulation Research
- Diabetes Research and Clinical Practice
- Journal of the American College of Cardiology
- European Heart Journal
- Cardiovascular Research
- International Journal of Cardiology
- The American Journal of Cardiology
- Journal of Cardiovascular Electrophysiology
- Pacing and Clinical Electrophysiology
- Experimental and Molecular Pathology
- Resuscitation
- Critical Care Medicine
- Expert Opinion on Pharmacotherapy
- Heart
- Mayo Clinic Proceedings
- Arteriosclerosis, Thrombosis, and Vascular Biology
- The Lancet
- Hypertension
- The New England Journal of Medicine

*Abstract Grader:*

- American Heart Association Annual Scientific Sessions: Human Genetics of Cardiovascular Disease and Therapy (FGTB) 2005-present.
- Heart Rhythm Society Annual Scientific Sessions 2007-present
- American College of Cardiology Annual Scientific Sessions

## **PROFESSIONAL ORGANIZATIONS**

- Fellow, Heart Rhythm Society
- Fellow, American College of Cardiology
- Fellow, American Heart Association
- Fellow, International Academy of Cardiovascular Sciences
- Member, Association of University Cardiologists
- Member, Western Association of Physicians
- Mayo Alumni Association
- Honorary Member, Korean Society of Cardiology

## **LOCAL ADMINISTRATIVE/TEACHING RESPONSIBILITIES**

1999-	Teaching Faculty, undergraduate core curriculum, Introduction to Cardiac Electrophysiology
2002-	Director, Fellowship Training Program, Clinical Cardiac Electrophysiology, Oregon Health & Science University
2001-2006	Director, Heart Rhythm Research Laboratory, Oregon Health & Science University
2005-	Graduate Faculty, School of Medicine, Oregon Health & Science University
2006-	Section Chief, Clinical Electrophysiology, Cardiovascular Medicine, Oregon Health and Science University
2006-	Director, Cardiac Arrhythmia Center, Cardiovascular Medicine, Oregon Health and Science University
2007-	Member, Promotion and Tenure Committee, Department of Medicine, Oregon Health and Science University
Nov 2008-	Associate Director of the Heart Institute (Genomic Cardiology), Cedars-Sinai Heart Institute
Nov 2008-	Section Chief, Clinical Cardiac Electrophysiology, Division of Cardiology
Nov 2008-	Program Director, Fellowship Training Program in Clinical Cardiac Electrophysiology, Cardiology Division, Cedars-Sinai Medical Center
Dec 2008-	Member, Physician Advisory Committee for the Electronic Medical Record, Cedars-Sinai Medical Center
2012-	Chair, Clinical Database Repository and Bioinformatics Committee, Cedars-Sinai Heart Institute



Feb 2012-2016	Member, Information Sciences Committee, Cedars-Sinai Health System
2012-2015	Member, Clinical Programs Growth Initiative Advisory Committee, Cedars-Sinai Health System
2013	Member, Search Committee for Director, Medical Genetics Research Institute, Cedars-Sinai Health System
2014-2015	Director, Clinical Cardiogenetics program, Cedars-Sinai Heart Institute
2016-	Faculty Oversight Committee for the Biobank, Cedars-Sinai Health System

#### **HONORS AND SPECIAL AWARDS:**

- Elected to Leadership Council, Association of University Cardiologists, 2016
- Elected Member, American Society for Clinical Investigation, 2015
- Simon Dack Award for Outstanding Scholarship, from the Journal of the American College of Cardiology, 2014
- Elite Reviewer, Journal of the American College of Cardiology for the Year 2013
- Howard Morgan Award for Distinguished Achievements in Cardiovascular Research, from the International Academy of Cardiovascular Sciences, Aug 15, 2013
- Fellow, International Academy of Cardiovascular Sciences 2012
- Elected Member, Association of University Cardiologists 2012
- Elite Reviewer, Journal of the American College of Cardiology 2011
- Elite Reviewer, Journal of the American College of Cardiology 2010
- 2007-08 Excellence in Teaching Award, School of Medicine, Oregon Health and Science University, Portland OR
- 2005 Annual Heart Research Center Award for Excellence in Research, Oregon Health and Science University, Portland OR
- Reynolds Visiting Professor, The Johns Hopkins University, Division of Cardiology, Jan 2004
- Doris Duke Innovation in Clinical Research Award 2001
- New Investigator Award, American Heart Association 2001 (for “*Molecular Basis of Atrial Arrhythmia Following Myocardial Infarction*”)
- STEP Award, American Association for the Advancement of Science 1990, New Orleans LA

## **EXAMINING PROFESSOR:**

- PhD Defense at the University of Adelaide, February 2015, Candidate Dr. Christopher Wong
- PhD Defense at the University of Amsterdam, May 2015, Candidate Dr. Abdenasser Bardai

## **RESEARCH GRANTS:**

### **Current:**

- R01HL126938, PI - Chugh 1/1/16 – 11/30/19  
NIH NHLBI  
Total Costs: \$ 2,513,288  
Sudden Cardiac Death with Preserved Left Ventricular Ejection Fraction  
This study will evaluate mechanisms of sudden cardiac arrest in patients with preserved left ventricular systolic function.
- R01HL122492, PI – Chugh 11/14/14 – 11/13/18  
NIH NHLBI  
Total Costs: \$ 2,357,464  
Sudden Cardiac Death in Middle Age  
This study is a population-based translational approach to identify novel mechanisms of ventricular arrhythmogenesis in middle-aged residents of a large community.

### **Completed:**

- R01 HL105170, PI - Chugh 7/1/10 – 3/31/15  
NIH NHLBI  
Total Costs: \$ 1,660,000  
Prolonged Ventricular Depolarization and Sudden Death in the Community  
This project focuses on mechanisms and clinical utility of prolonged ventricular depolarization as a predictor of sudden cardiac death in the general population.
- R01 HL088416, PI – Chugh 7/13/07 – 4/31/12  
Total Costs: \$ 2,075,000  
Determinants of Sudden Death Risk with Left Ventricular Hypertrophy  
This study was a population-based translational approach to identifying mechanisms of fatal arrhythmia among subjects with left ventricular hypertrophy.
- R01 HL088416-03S1, PI – Chugh 7/15/09 – 6/30/11  
Total Costs: \$ 406,250  
Administrative Supplement for Determinants of Sudden Death Risk with Left Ventricular Hypertrophy
- Co-investigator (10%) – Chugh 7/2007 – 7/2010  
Reynolds Foundation Center of Excellence in Heart Disease at the Johns Hopkins University  
Total Costs: \$ 150,000  
Genomic Determinants of Sudden Cardiac Death

- HL-04-001, Co-Investigator (5%) – Chugh, PI – Jerris Hedges, MD 7/1/04 – 6/30/09  
 National Heart, Lung, and Blood Institute  
 Total Costs: \$ 2,998,698  
 Emergency Prehospital Investigative Consortium (EPIC)
- Co-investigator (20%) – Chugh 7/2003 – 7/2007  
 Reynolds Foundation Center of Excellence in Heart Disease at the Johns Hopkins University  
 Total Costs: \$ 24,000,000 (\$1,500,000)  
 Genomic Determinants of Sudden Cardiac Death
- Fellowship Award 2004 – 2007  
 North American Society of Pacing and Electrophysiology, Advanced Training Clinical  
 Total Costs: \$ 150,000  
 Clinical Cardiac EP Training Program at Oregon Health & Science University
- Project TS 0660, PI (20%) – Chugh 2001 – 2004  
 US Centers for Disease Control and Prevention  
 Total Costs: \$ 838,442  
 Mechanisms of Unexplained Sudden Cardiac Death: A Population-Based Cohort Study in Multnomah County, Oregon
- Doris Duke Innovation in Clinical Research Award 2001 – 2004  
 Doris Duke Charitable Foundation  
 Total Costs: \$ 200,000  
 Mechanisms of Unexplained Sudden Cardiac Death: A Prospective, Population-based Investigation
- Grant-in-Aid 2001 – 2003  
 American Heart Association  
 Total Costs: \$ 80,000  
 Mechanisms of Unexplained Sudden Cardiac Death: Clinical, Pathologic and Genetic Analysis of Archived Hearts from a 13-year Autopsy Series
- Collins Medical Trust 2000 – 2001  
 Total Costs: \$ 25,000  
 Genetic Mechanisms of Cardiac Arrhythmia in Heart Failure: Gene Expression Profiling in the Rat Model of Myocardial Infarction
- Minneapolis Medical Research Foundation 4/1994 – 5/1994  
 National Heart and Lung Institute, London, United Kingdom  
 Total Costs: \$ 5,000  
 Alterations in Chemoreceptor Function in Heart Failure

## RESEARCH GRANTS/AWARDS TO TRAINEES (Dr. Chugh as Primary Mentor)

### Current

- National Institutes of Health K-12 Scholar Award (NHLBI; \$390,000, 2013-2017) to Eric C. Stecker, MD for “*Influence of pre-existing cardiovascular disease on response to cardiac arrest resuscitation (The Oregon Sudden Unexpected Death Study)*”
- 2012 National Center Research Program Scientist Development Grant (American Heart Association; \$308,000, 2013-2017) to Adriana Huertas-Vazquez, PhD for “*Evaluation of Three Genetic Loci Associated with Sudden Cardiac Death.*”
- 2012 Western States Affiliate Beginning Grant-in-Aid (American Heart Association; \$140,000, 2013-2015) to Adriana Huertas-Vazquez, PhD for “*Fine Mapping and Gene Network Analysis of Selected Sudden Cardiac Death Loci.*” (Declined)

### Completed

- 2014 James Willerson Award for Excellence in Post-Doctoral Research (International Academy of Cardiovascular Sciences) to Kumar Narayanan, MD for “*QRS Fragmentation Predicts Increased Risk of Sudden Cardiac Death.*”
- 2011 AHA-Phillips Resuscitation Fellowship Award (American Heart Association Post-Doctoral Grant; \$103,000, 2011-2013) to Carmen Teodorescu, MD PhD for “*Risk Factors of Pulseless Electrical Activity.*”
- 2008 Heart Research Trainee of the Year, Oregon Health and Science University, Portland OR to Stacey Clegg, MD for “*Gender Differences and Sudden Cardiac Death in the General Population: Is There Equal Opportunity for Prevention?*”
- 2005 American College of Cardiology Young Investigator Award to Eric Stecker, MD for “*The Large Majority of Sudden Cardiac Death Cases Do Not Have Severe Left Ventricular Dysfunction: Prospective Evaluation of Alternative Risk Predictors in a Two-Year, Community-Based Study*”
- American Heart Association Post-Doctoral Fellowship Award (2003-2005) to Eric Stecker, MD for “*Phenotype-Genotype Correlations in Sudden Death with Coronary Artery Disease.*”
- 2004 American Heart Association New Investigator Award to Benjamin John, MD for “*Distinctive Remodeling of Myocardial Interstitium but No Connexin 43 Alterations in LVH Associated with Sudden Cardiac Death.*”
- Fourjay Foundation (\$50,000; 2003-04) to Benjamin John, MD (Fellow, Cardiovascular Medicine, Oregon Health & Science University) for “*Contributions of the Cardiac Interstitium to Fatal Arrhythmogenesis in Patients with Isolated Left Ventricular Hypertrophy and Sudden Cardiac Death*”
- National Institutes of Health Summer Scholarship (May-Aug 2002) to Nasreen Ilias, second year medical student, Oregon Health & Science University.

- American Heart Association Medical Student Research Grant (*May-Aug 2002*) to Nasreen Ilias, second year medical student, Oregon Health & Science University.
- National Institutes of Health Summer Scholarship (*May-Aug 2002*) to Richard Shih, second year medical student, Oregon Health & Science University.

### **TRAINING GRANTS:**

Faculty mentor, NIH T32 grant, Cedars-Sinai Heart Institute Training Program in Advanced Heart Disease Research

### **SYMPOSIA ORGANIZED**

Arrhythmia Symposium at the Cedars-Sinai Heart Institute (Organized and chaired, Dec 2008, Dec 2010, Dec 2012, Dec 2014, Dec 2016).

### **INVITED LECTURES AND CHAIRED SESSIONS:**

#### **National/International**

1. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas, Houston, Texas, January 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
2. Invited Faculty Speaker, University of Utah, Cardiology Division, Salt Lake City, Utah, February 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
3. Invited Faculty Speaker, New Mexico Heart Institute, Cardiology Division, Albuquerque, New Mexico, February 1999. (Sudden Cardiac Death with Apparently Normal Heart)
4. Invited Faculty Speaker, Duke University, Division of Cardiac Electrophysiology, Durham North Carolina, March 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
5. Invited Faculty Speaker, Loyola University, Cardiology Division, Chicago Illinois, March 1999. (Sudden Cardiac Death with Apparently Normal Heart)
6. Invited Faculty Speaker, Post Graduate Institute for Medical Education and Research, Chandigarh, India, February 2001. (Sudden Cardiac Death – Population to Bedside to Bench)
7. Invited Faculty Speaker, All India Institute of Medical Sciences, New Delhi, India, February 2001. (Mechanisms of Sudden Cardiac Death)
8. Invited Faculty Speaker, Cardiology Grand Rounds, University of Arkansas Medical Sciences, Little Rock, Arkansas, January 25, 2002. (Proximal Mechanisms of Fatal Arrhythmia)
9. Invited Faculty Speaker, North American Society of Pacing and Electrophysiology (NASPE) 23rd Scientific Sessions, San Diego, California, May 9, 2002. (Current Understanding of the Genetic Epidemiology of the Acquired Long QT Syndrome)

10. Invited Faculty Speaker, US Centers for Disease Control & Prevention, Cardiovascular Health Branch, Atlanta, Georgia, June 3, 2002. (Seminar - A Translational Approach to Sudden Cardiac Death: The Genetic Connection)
11. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas, Houston, Texas, October 17, 2002. (Sudden Cardiac Death in the Genetic Age: Implications for the Clinical Approach)
12. Invited Faculty Speaker, XII World Congress of Cardiac Pacing and Electrophysiology, Hong Kong, February 19-22, 2003. (Acquired long QT and pre-prescription genotyping)
13. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, March 30 - April 2, 2003. (Who Should the Practicing Cardiologist Refer for EP Consultation?)
14. Invited Faculty Speaker, North American Society of Pacing and Electrophysiology (NASPE) 24th Scientific Sessions, Washington, DC, May 14-17, 2003. (Management of the ICD Patient)
15. Invited Faculty Speaker, Functional Genomics in Heart Failure, Herz Zentrum Gottingen, Georg-August-Universität Göttingen, Germany, June 26-28, 2003. (Population-Based Analysis of Unexplained Sudden Death)
16. Reynolds Center Visiting Professor and Speaker, Grand Rounds, The Johns Hopkins University, Division of Cardiology, January 7, 2004. (Unexplained Sudden Cardiac Death- Scope of the Problem and Pursuit of Concealed Etiologies)
17. Invited Seminar Speaker, Cedars Sinai Medical Center, Division of Cardiology, Los Angeles, California, March 17, 2004.
18. Invited Faculty Speaker, Cardiology Grand Rounds, New England Medical Center, Cardiology Division, Tufts University, Boston, Massachusetts, April 16, 2004.
19. Invited Faculty Speaker, American Medical Athletic Association, 33<sup>rd</sup> Annual Sports Medicine Symposium at Boston, Massachusetts, April 17-18, 2004. (Sudden Cardiac Death with an Apparently Healthy Heart)
20. Session Chair, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 21, 2004. (Risk Stratification in Genetic Disorders)
21. Session Chair, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco California, May 21, 2004. (Clinical Electrophysiology V: Genetics of Arrhythmias)
22. Invited Faculty Speaker, Featured Symposium - Celebrating the Past, Shaping the Future, Sudden Cardiac Death: An Evolving Paradigm, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 21, 2004. (The Epidemiology of SCD: Scope of the Problem)
23. Invited Faculty Speaker, American College of Cardiology Combined International Symposium on Congenital Heart Disease in the Adult, Skamania, Washington, June 6-9, 2004. (Utility of Resynchronization Therapy in Heart Failure)

24. Invited Faculty Speaker, 14<sup>th</sup> World Congress on Cardiac Electrophysiology and Cardiac Techniques (CARDIOSTIM), Nice, France, June 16-19, 2004. (Epidemiology and Risk Stratification of Sudden Cardiac Death: Role of Genetic Screening)
25. Invited Faculty Speaker, Second National CDC Prevention Conference on Heart Disease and Stroke, Atlanta, Georgia, August 17-20, 2004. (Current Burden of Sudden Cardiac Arrest in the Community)
26. Invited Faculty Speaker, Circulation Research Symposium: The Fundamental Biology of Cardiac Arrhythmias, American Heart Association Annual Scientific Sessions, New Orleans, Louisiana, November 7-10, 2004. (Genomics of Sudden Cardiac Death)
27. Invited Faculty Speaker, International Summit on Coronary Artery Disease and Cardiovascular Interventions, Mumbai, India, February 19, 2005. (Sudden Cardiac Arrest and the Human Genome – Unlocking the Secrets of Biology’s Storehouse)
28. Invited Faculty Speaker, International Summit on Coronary Artery Disease and Cardiovascular Interventions, Mumbai, India, February 20, 2005. (Clinical Selection of the ICD Candidate- Can we look beyond the ejection fraction?)
29. Session Co-Chair, Rama K. Bernstein Program for Fellows, Heart Rhythm Society Annual Scientific Sessions, May 4, 2005. (Sudden Academic Arrest: Resuscitate or Abandon?)
30. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, May 7, 2005. (Genetic Screening in Sudden Death)
31. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, May 7, 2005. (Long QT Syndrome- What we know and what we are learning)
32. Invited Faculty Speaker, Cardiology Grand Rounds, SUNY at Stony Brook, Division of Cardiology, Stony Brook, New York, June 13, 2005. (Novel Predictors of Sudden Cardiac Death)
33. Invited Faculty Speaker, Cardiology Grand Rounds, Mayo Clinic, Division of Cardiology, Rochester, Minnesota, August 26, 2005. (Novel Predictors of Sudden Cardiac Death in the General Population)
34. Invited Faculty Speaker, The Great Wall of China International Cardiology Symposium, Beijing, China, November 3-6, 2005. (Clinical Selection of the ICD Candidate- Can we look beyond the ejection fraction?)
35. Invited Faculty Speaker, UCLA, Division of Cardiology, Los Angeles, California, November 30, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
36. Invited Faculty Speaker, Cardiology Grand Rounds, UCI, Irvine, California, December 1, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)

37. Invited Faculty Speaker, Cardiology Grand Rounds, Mount Sinai Medical Center, Division of Cardiology, New York, New York, December 6, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
38. Invited Faculty Speaker, Cardiology Grand Rounds, St Lukes-Roosevelt Hospital Center, Division of Cardiology, New York, New York, December 7, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
39. Invited Faculty Speaker, Harborview Medical Center Citywide Resuscitation Research Rounds, University of Washington, Seattle, Washington, February 21, 2006. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
40. Invited Faculty Speaker, Christian Medical College, Department of Anesthesiology, Ludhiana, Panjab, India, March 6, 2006. (Management of Intra-Operative and Post-Operative Cardiac Arrhythmias)
41. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Sudden Death in Young Adults)
42. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Mutations in Cardiomyopathies: What Are the Clinical Implications?)
43. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Chronic Resynchronization Therapy: An Update)
44. Invited Faculty Speaker, 15<sup>th</sup> World Congress on Cardiac Electrophysiology and Cardiac Techniques (CARDIOSTIM), Nice, France, June 14-17, 2006; (Molecular abnormalities in unexplained sudden death)
45. Invited Faculty Speaker, US-Wide Race Directors Conference, the Portland Marathon, Portland, Oregon, September 29, 2006. (Sudden Cardiac Arrest in Marathon Runners)
46. Invited Faculty Speaker, University of Minnesota, Division of Cardiology, Minneapolis, Minnesota, December 15, 2006. (A Perfect Storm: Determinants of Sudden Cardiac Death in the General Population)
47. Invited Faculty Speaker, Medical Grand Rounds, Hennepin County Medical Center, Minneapolis, Minnesota, March 8, 2007.
48. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, March 26, 2007. (Sudden Cardiac Death Symposium- Autopsy Negative Sudden Death)
49. Invited Faculty Speaker, The Great Wall of China International Cardiology Symposium, Beijing, China, October 10-13, 2007.
50. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas at Houston, October 25, 2007.
51. Invited Faculty Speaker, Cardiology Grand Rounds, Northwestern University, Feinberg School of Medicine, Chicago, November 16, 2007.



52. Invited Faculty Speaker, Keynote Address for the Second Annual Heart Disease and Stroke Educational Conference, Partnership for a Heart Healthy and Stroke Free Massachusetts, Marlboro, Massachusetts, January 25, 2008. (Community Approaches to Reducing Out of Hospital Deaths)
53. Invited Faculty Speaker, Cardiology Grand Rounds, Evergreen Health Care, Kirkland, Washington, April 18, 2008.
54. Invited Faculty Speaker, Cardiology Grand Rounds, Cedars-Sinai Medical Center, Division of Cardiology, Los Angeles, California, April 24, 2008.
55. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2008. (Ablation of Focal Tachycardia in the Right Atrium)
56. Session Co-Chair, Stem Cell and Gene Therapy for Cardiac Conditions, Cardiovascular Diseases in the Elderly, CARDIOSTIM, Nice, France, June 19, 2008.
57. Invited Faculty Speaker, Stem Cell and Gene Therapy for Cardiac Conditions, Cardiovascular Diseases in the Elderly, CARDIOSTIM, Nice, France, June 19, 2008. (Sudden Cardiac Death and Population Genetics: Evidences and Promises)
58. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 13-16, 2009. (RF ablation of focal atrial tachycardia)
59. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 13-16, 2009. (VT/VF Summit Update: Sudden Cardiac Arrest - Epidemiology and Early Management)
60. Invited Faculty Speaker, Cardiology Grand Rounds, UCSD, Cardiology Division, San Diego, California, September 9, 2009.
61. Invited Faculty Speaker, Medical Grand Rounds, UCSD, Department of Medicine, San Diego, California, September 9, 2009.
62. Invited Faculty Speaker, Cardiology Grand Rounds, University of Pittsburgh, Cardiology Division, Pittsburgh, Pennsylvania, December 1, 2009.
63. Invited Faculty Speaker, Cardiology Grand Rounds, Case Western Reserve University, Metro-Health Medical Center, Cardiology Division, Cleveland, Ohio, December 2, 2009.
64. Invited Faculty Speaker, Medicine Grand Rounds, Case Western Reserve University, Metro-Health Medical Center, Department of Medicine, Cleveland, Ohio, December 3, 2009.
65. Session Co-Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2010. (Cardiac Resynchronization Therapy)
66. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2010. (Annual CCEP Program Directors Meeting)

67. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Korea University, Cardiovascular Center, Seoul, Korea, June 16, 2010. (Novel predictors of sudden cardiac death in the general population)
68. Invited Faculty Speaker, Atrial Fibrillation Research Summit, Washington, DC, June 11-13, 2010. (Global burden of atrial fibrillation)
69. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Fuwai Hospital, National Cardiovascular Center, Beijing, China, June 18, 2010. (Novel predictors of sudden cardiac death in the general population)
70. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Nature Cardiovascular Reviews Symposium – Early Detection of Risk Factors for Sudden Cardiac Death)
71. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Global Burden of Sudden Cardiac Death)
72. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Global Burden of Atrial Fibrillation)
73. Session Co-Chair, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 14-16, 2010. (Genetics of sudden death)
74. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 14-16, 2010. (Genetics of sudden death in coronary artery disease)
75. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Leicester, Cardiovascular Department, Leicester, United Kingdom, January 9, 2011. (Sudden death in the general population)
76. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Cape Town, Hatter Cardiovascular Research Institute, Faculty of Health Sciences, Cape Town, South Africa, January 12, 2011. (Genomics of sudden death)
77. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Department of Medicine at Groote Schuur Hospital and the University of Cape Town, January 13, 2011. (Sudden death in the general population)
78. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Tel Aviv University, Sheba Medical Center, Department of Cardiology, Tel Aviv, Israel; Israeli Electrophysiology Society, Tel Aviv Israel, Mar 3, 2011. (Sudden Death with Structurally Normal Heart; Arrhythmias and the Genomic Revolution; Sudden Death in the General Population- Can We Predict and Prevent?)
79. Session Chair, Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 2011. (Annual CCEP Program Directors Meeting)
80. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, San Diego, California, May 2011. (Utility of the Electrocardiogram in Risk Stratification)

81. Visiting Professor and Invited Faculty Speaker, University of Tokyo, Department of Cardiology, Tokyo, Japan, September 20, 2011. (Genomics of Sudden Cardiac Death)
82. Invited Faculty Speaker, Sudden Cardiac Death Symposium, Asia-Pacific Heart Rhythm Society, Fukuoka, Japan, September 22, 2011. (Clinical and Genetic Epidemiology of SCD: One Decade of the Ore-SUDS)
83. Visiting Professor and Invited Faculty Speaker, Fortis Hospital, Mohali, Panjab, India, December 19, 2011. (Sudden Cardiac Death: New Insights and Opportunities)
84. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, Illinois, March 26, 2012. (Genetics of Sudden Death in the General Population)
85. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, Illinois, March 26, 2012. (Assessment of LV Function for Sudden Death Risk Stratification in Heart Failure)
86. Visiting Professor and Invited Faculty Speaker, New York University, Langone Medical Center, Division of Cardiology, New York, New York, April 13, 2012. (Prediction of Sudden Cardiac Death in the Community: One Decade of the Oregon Sudden Unexpected Death Study)
87. Invited Faculty Speaker, World Congress of Cardiology Annual Scientific Sessions, Dubai, United Arab Emirates, April 17, 2012. (Epidemiology of Sudden Cardiac Death)
88. Session Co-Chair, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, April 20, 2012. (Genetics of Inherited Arrhythmia Syndromes)
89. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, April 20, 2012. (Genetics of Sudden Cardiac Death)
90. Invited Faculty Speaker, Stanford Biodesign New Arrhythmia Technologies Retreat, Boston, Massachusetts, May 17, 2012. (Mechanisms of Sudden Death)
91. Chair, Heart Rhythm Society, Boston, Massachusetts, May 9-12, 2012.
92. Invited Faculty Speaker, Heart Rhythm Society, Boston, Massachusetts, May 9-12, 2012. (Mechanisms of Sudden Death Not Related to VT or VF)
93. Visiting Professor and Invited Faculty Speaker, Grand Rounds, INSERM University of Paris, Paris Cardiovascular Research Center, Paris, France, June 12, 2012. (Sudden Death in the Population: New Risk Factors)
94. Invited Faculty Speaker, CARDIOSTIM Annual Scientific Sessions, Nice, France, June 13-14, 2012. (Genomics of Out-of-Hospital Sudden Cardiac Arrest)
95. Co-Chair, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012.
96. Invited Faculty Speaker, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012. (Non-Pharmacologic Therapy)

97. Invited Faculty Speaker, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012. (Anti-thrombotic therapy – Risk of Bleeding)
98. Invited Faculty Speaker, Conference and Advanced Research Workshop “Sudden Cardiac Death & Cardioprotection”, "Victor Babes" University of Medicine & Pharmacy, Timisoara, Romania, September 6-8, 2012. (Population Genomics of Sudden Cardiac Death)
99. Invited Faculty Speaker, Pathway to Sudden Cardiac Death Risk Stratification, Schiller Park, Illinois, September 12, 2012. (Population based risk stratification/ out-of-hospital cardiac arrest –VF and non VF)
100. Invited Faculty Speaker, Cardiology Grand Rounds, UCSD, San Diego, California, January 18, 2013. (Personalized Medicine for the Cardiac Patient: Are We There Yet?)
101. Invited Faculty Speaker, Sudden Cardiac Arrest in Children & Adolescents: Current Controversies, Anaheim, California, January 25, 2013. (Sudden Cardiac Arrest in the Young: Lessons from Community-Based Studies)
102. Moderator, American Heart Association Annual Scientific Sessions, Los Angeles, California, November 3-6, 2012. (Abstract Oral Session - Ventricular Arrhythmias: Innovations and Inherited Syndromes)
103. Invited Faculty Speaker, 2013 Gordon Research Conference, Cardiac Arrhythmia Mechanisms, Ventura, California, February 17-22, 2013. (Clinical Genomics of Sudden Cardiac Death)
104. Visiting Professor and Invited Faculty Speaker, Shanghai Jiao Tong University School of Public Health, Shanghai, China, Mar 3-6, 2013. (Workshop and visiting professor lecture)
105. Invited Faculty Speaker, American College of Cardiology Scientific Sessions, San Francisco, California, March 11, 2013. (Predicting SCD: Role of Imaging)
106. Visiting Professor and Invited Faculty Speaker, Electrophysiology Grand Rounds, Duke University School of Medicine, Durham, North Carolina, March 21-22, 2013. (Sudden Cardiac Death in the General Population)
107. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Paris, France, April 13-16, 2013. (Pulseless activity versus ventricular fibrillation: determining factors)
108. Invited Faculty Speaker, Stanford Biodesign New Arrhythmia Technologies Retreat, Denver, Colorado, May 7, 2013. (Mechanisms of Sudden Death)
109. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2013. (Sudden Cardiac Arrest: State of the Art 2013)
110. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2013. (Sudden Cardiac Death Not Due to Ventricular Arrhythmias)

111. Invited Faculty Speaker, The National Space Biomedical Research Institute Cardiovascular Team Symposium, Houston, Texas, May 20, 2013. (Clinical and Genetic Markers of Sudden Cardiac Death)
112. Invited Faculty Speaker, Advances in Cardiovascular Research: From the Bench to the Bedside, Bratislava, Slovakia, May 23-26, 2013. (Clinical Genomics of Sudden Cardiac Death)
113. Co-Chair, Advances in Cardiovascular Research: From the Bench to the Bedside, Bratislava, Slovakia, May 23-26, 2013. (Drug Therapy and New Approaches to Management of Cardiovascular Diseases)
114. Invited Faculty Speaker, Annual Cardiovascular Forum of the International Academy of Cardiovascular Sciences, University of Louisville, Kentucky August 15-16, 2013. (Clinical Genomics of Sudden Cardiac Death)
115. Session Co-Chair, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 3, 2013. (Global Burden and Stand against Out-Of-Hospital Sudden Cardiac Death)
116. Invited Faculty Speaker, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 3, 2013. (Sudden Cardiac Death: North American Experience and Lessons from the Oregon Sudden Death Study)
117. Session Chair, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 4, 2013. (Clinical Case-Based Focus Session on Sudden Cardiac Death)
118. Invited Faculty Speaker, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 4, 2013. (Reduction of Sudden Cardiac Death in Hypertrophic Cardiomyopathy)
119. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, November 18, 2013. (Sudden Cardiac Death: State of the Science - Genetics of sudden death of non-inherited arrhythmia syndromes)
120. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, November 19, 2013. (CVS.415 - Ventricular Fibrillation: From Bench to Bedside - Sudden Cardiac Death: Predictable?)
121. Visiting Professor and Invited Faculty Speaker, Grand Rounds, CARE Group Hospitals Cardiovascular Institute, Hyderabad, India, December 28, 2013. (Sudden Cardiac Death - Challenges and Opportunities)
122. Visiting Professor and Invited Faculty Speaker, CARE Group Hospitals Cardiovascular Institute, Hyderabad, India, December 28, 2013. (Sudden Death in Hypertrophic Cardiomyopathy: Clinical Approach to Prevention and Management)
123. Session Chair, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, March 23-25, 2014. (Sudden Cardiac Death: Risk Factors, Epidemiology, and prevention)
124. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, March 23-25, 2014. (Genetics of sudden cardiac death and the role of molecular autopsy)

125. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 2013. (Sudden Cardiac Death not due to Ventricular Arrhythmias)
126. Invited Faculty Speaker, World Congress of Cardiology Scientific Sessions, Melbourne, Australia, May 5, 2014. (The Global Burden of Atrial Fibrillation: What we know and future directions)
127. Invited Faculty Speaker, Heart Rhythm Society – 35th Annual Scientific Sessions, San Francisco, California, May 8, 2014. (Observational Population Research)
128. Invited Faculty Speaker, Heart Rhythm Society – 35th Annual Scientific Sessions, San Francisco, California, May 8, 2014. (The Role of Sleep Apnea Diagnosis and Treatment in the Preventions of Atrial Fibrillation)
129. Session Chair, Cardiostim Scientific Sessions, Nice, France June 18-20, 2014. (Management of Arrhythmias in the Elderly)
130. Invited Faculty Speaker, 2<sup>nd</sup> Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, Winnipeg, Manitoba, Canada, September 5, 2014. (Thematic Symposium: Sudden Cardiac Death and Arrhythmias)
131. Session Co-Chair, 2<sup>nd</sup> Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, Winnipeg, Manitoba, Canada, September 5, 2014. (Genetics of Sudden Cardiac Death and Role of the Molecular Autopsy)
132. Invited Faculty Speaker, Medicine Grand Rounds, Brown University, Rhode Island Hospital, Cardiovascular Institute, Providence, Rhode Island, September 30, 2014. (Prediction of Sudden Death in the General Population)
133. Invited Faculty Speaker, International Academy for Cardiovascular Sciences, 2014 European Section Meeting, Balatongorok, Hungary, October 8, 2014. (Sudden Cardiac Death in the Middle-aged Athlete)
134. Invited Faculty Speaker, The 7<sup>th</sup> Asia-Pacific Heart Rhythm Scientific Session, New Delhi, India, October 30, 2014. (Burden of AF)
135. Session Chair, The 7<sup>th</sup> Asia-Pacific Heart Rhythm Scientific Session, New Delhi, India, November 1, 2014. (Primary Prevention of SCD in Asia)
136. Session Chair and Moderator, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 17, 2014. (Atrial Fibrillation Epidemic: Clinical and Research Implications at a Global Level)
137. Poster Professor, Abstract Poster Session, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 18, 2014. (Sudden Cardiac Death: Arrhythmia: Clinical Electrophysiology, Diagnosis and Risk Stratification)
138. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 19, 2014. (Community Based Studies on Sudden Death)

139. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (Approach to Genetic Testing for Heritable Arrhythmias: How to...: Optimizing the yield of genetic testing: Avoiding unnecessary testing)
140. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (Exercise Activity and Sudden Death Cardiac Death: Assessing risk of SCD in the older athlete)
141. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (How to Prevent Sudden Cardiac Death Today: Rising burden of pulseless electrical activity: Causes and implications)
142. Invited Faculty Speaker, 40th Annual Conference, International Society for Computerized Electrocardiology, San Jose, California, April 15, 2015. (Epidemiology of Sudden Cardiac Death)
143. Invited Faculty Speaker, 2015 Stanford Biodesign New Arrhythmia Technologies Retreat, Logan Airport, Boston, Massachusetts, May 12, 2015. (Mechanisms of Sudden Cardiac Arrest)
144. Invited Faculty Speaker, Heart Rhythm Society – 36th Annual Scientific Sessions, San Francisco, California, May 14, 2015. (What’s New in the Epidemiology of AF: Risk Factors and Predictors of New Onset AF)
145. Session Chair, 36th Annual Scientific Sessions, Heart Rhythm Society 2015, Boston Convention & Exhibition Center, Boston, Massachusetts, May 15, 2015. (Epidemiology and Management of AF)
146. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Amsterdam, the Academic Medical Center, Department of Cardiology, the Netherlands, May 29, 2015. (Master Class in Ongoing Cardiac Research)
147. Visiting Professor and Invited Faculty Speaker, Cardiology Grand Rounds, Post Graduate Institute for Medical Education and Research, Advanced Cardiac Center, Chandigarh, India, July 4, 2015. (Sudden cardiac death in the younger vs. older athlete)
148. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 9, 2015. (Community Based Studies on Sudden Death)
149. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 10, 2015. (Rising Prevalence of Non-Shockable Cardiac Arrest)
150. Session Chair/Moderator, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 10, 2015. (Prevention of Sudden Cardiac Death: Challenges and Opportunities)
151. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (Sudden death prevention – CPR training and public access defibrillators)
152. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (The growing importance of pulseless electrical activity)

153. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (Incidence and etiology of sudden death in young and middle aged athletes)
154. Invited Faculty Speaker, APICON 2016, Hyderabad, India, January 29, 2016. (Sudden Cardiac Death: Challenges and Opportunities)
155. Plenary Speaker, 2016 Korean Society of Cardiology Spring Scientific Sessions, Apr 15, 2016. (Strategic Approaches to Minimize Sudden Cardiac Death in Our Society)
156. Invited Faculty Speaker, 2016 Korean Society of Cardiology Spring Scientific Sessions, April 15, 2016. (Management of Atrial Arrhythmia Detected in HF-CIED)
157. Invited Faculty Speaker, 2016 Stanford Biodesign New Arrhythmia Technologies Retreat, Stanford University, May 3, 2016. (Mechanisms of Sudden Cardiac Arrest)
158. Invited Faculty Speaker, 2016 Stanford Biodesign New Arrhythmia Technologies Retreat, Stanford University, May 3, 2016. (Mechanisms of Sudden Cardiac Arrest in the Young)
159. Session Chair, The Science Behind the Sudden Death Investigation, Heart Rhythm Society – 37th Annual Scientific Sessions, San Francisco, CA, May 4, 2016.
160. Visiting Professor and Invited Faculty Speaker, Cardiology Grand Rounds, Virginia Commonwealth University, Richmond, Virginia, May 26, 2016. (Prevention of Sudden Death in Coronary Disease: Progress and Pitfalls)
161. Visiting Professor and Invited Faculty Speaker, Electrophysiology Grand Rounds, Virginia Commonwealth University, Richmond, Virginia, May 26, 2016. (Ventricular Arrhythmias in Younger Vs. Older Athletes)
162. Invited Faculty Speaker, World Congress of Cardiology and Cardiovascular Health, Mexico City, Mexico, June 5, 2016. (Global Burden of Atrial Fibrillation in Developed and Developing Nations)
163. Invited Faculty Speaker, World Congress of Cardiology and Cardiovascular Health, Mexico City, Mexico, June 6, 2016. (Out of Hospital Cardiac Arrest)
164. Invited Faculty Speaker and Expert, Path to Improved Risk Stratification for Sudden Cardiac Death, Bethesda, Maryland, June 20, 2016. (Population risk stratification: better individual risk prediction)
165. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Jacobs School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo New York, September 8, 2016. (Prevention of Sudden Cardiac Death: From Vulnerable Ejection Fraction to Vulnerable Patient)
166. Invited Faculty Speaker, The 9<sup>th</sup> Asia Pacific Heart Rhythm Society Scientific Session, Seoul, Republic of Korea, October 13, 2016. (Warning Symptoms Before Sudden Cardiac Arrest: Clinical Significance)
167. Young Investigator Award Judge, The 9<sup>th</sup> Asia Pacific Heart Rhythm Society Scientific Session, Seoul, Republic of Korea, October 13, 2016.



168. Invited Faculty Speaker, The 9<sup>th</sup> Asia Pacific Heart Rhythm Society Scientific Session, Seoul, Republic of Korea, October 14, 2016. (Global Burden of Atrial Fibrillation: Future Perspective for Asia-Pacific)
169. Session Chair, The 9<sup>th</sup> Asia Pacific Heart Rhythm Society Scientific Session, Seoul, Republic of Korea, October 15, 2016. (Step-Up Session)
170. Invited Faculty Speaker, Cardiology Grand Rounds, UT Southwestern Medical Center, Dallas, Texas, November 2, 2016. (Prevention of Sudden Cardiac Death: From Vulnerable Ejection Fraction to Vulnerable Patient)
171. Invited Faculty Speaker, American Heart Association Scientific Sessions 2016, New Orleans, Louisiana, November 15, 2016. (Using Novel Tests to Predict Sudden Cardiac Death)

### **Regional**

1. Faculty Speaker, Oregon Health & Science University, Medical Grand Rounds, September 1999. (Supraventricular Tachycardia: Does Radiofrequency Ablation Offer a Cure?)
2. Faculty Speaker, Cardiology 2000 for Nurses, Oregon Health Sciences University: Applications for Practice and Research, September 2000. (Devices: Pacemakers and Internal Cardiac Defibrillators)
3. Faculty Speaker, St. Charles Medical Center, Bend, Oregon, February 2001. (Beyond Bradycardia – New Developments in Cardiac Pacemakers)
4. Faculty Speaker, Grand Rounds, Oregon Health & Science University, Department of Molecular and Medical Genetics, March 2001. (Sudden Cardiac Death – An Investigative Approach)
5. Faculty Speaker, Continuing Medical Education Lecture, Mercy Medical Center, Roseburg, Oregon, April 2001. (Non-Pharmacologic Treatment of Arrhythmia)
6. Faculty Speaker, Oregon Health Sciences University 8<sup>th</sup> Annual Internal Medicine Review Course, April 2001. (Pacemakers – Primer and Update for Primary Care)
7. Faculty Speaker, Medical Grand Rounds, Oregon Health & Science University, July 10, 2001. (Unexplained Sudden Cardiac Death)
8. Invited Faculty Speaker, NIH Human Investigations Program (K-30), Oregon Health & Science University, January 7, 2002. (Basis, Initiation and Conduct of a Clinical Research Project: Lessons from Sudden Death Research)
9. Invited Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 2001. (Fundamentals of Electrocardiography)
10. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, October 4-6, 2002. (Biventricular Pacing: Is improvement on a 6-minute walk test worth the effort?)

11. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, Oct 4-6, 2002. (Prevention of Sudden Cardiac Death in Heart Failure: Is Documentation of Arrhythmias necessary?)
12. Honorary Chairman, Heart Research Center Annual Scientist Retreat, Oregon Health & Science University, November 2, 2002.
13. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 14, 2003. (Update on Ventricular Pacing)
14. Faculty Speaker, Oregon Health & Science University 10<sup>th</sup> Annual Internal Medicine Review Course, April 17, 2003. (Cardiology Update 2003)
15. Invited Faculty Speaker, Oregon College of Emergency Physicians Winter Conference, Sunriver, Oregon, February 1-4, 2004. (Cardiac Devices: A Practical Approach to Pacemakers & Defibrillators)
16. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 14, 2003. (Electrocardiography Basics)
17. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, October 1-3, 2004. (Update on Management of Syncope; Utility of the Automatic External Defibrillator)
18. Invited Faculty Speaker, Oregon Health & Science University 12<sup>th</sup> Annual Internal Medicine Review Course, April 8, 2005. (Cardiology Update 2003)
19. Invited Faculty Speaker, 2006 Northwest Electrophysiology Society Annual Meeting, Sunriver, Oregon. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population).
20. Faculty Speaker, Medical Grand Rounds, Oregon Health and Science University, Portland Oregon, October 24, 2006. (Sudden Death in the Young Athlete: Preventable or Destined to Happen?)
21. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 13, 2007. (Update on Management of Atrial Fibrillation)
22. Invited Faculty Speaker, Oregon American College of Cardiology Chapter Meeting, February 28, 2007. (The Oregon Sudden Unexpected Death Study: Lessons Learned and Promises to Keep)
23. Invited Faculty Speaker, 13<sup>th</sup> Cardiovascular Conference in the Cascades, Bend, Oregon, August 2007. (Bangs, Bucks and Prevention of Sudden Cardiac Death: Can We Do Better?)
24. Invited Faculty Speaker, Cardiology Update, St. John Medical Center, Longview, Washington, October 20, 2007. (Management of Atrial Fibrillation)
25. Invited Faculty Speaker, Grand Rounds, Cardiovascular Institute of the Cascades, Bend, Oregon, February 18, 2008. (Sudden Death in the Young Athlete: Preventable or Destined to Happen?)

26. Invited Faculty Speaker, Kaiser Permanente Center for Health Research Seminar, Portland, Oregon, April 9, 2008. (Lessons from a population: The Oregon Sudden Unexpected Death Study)
27. Invited Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, September 4-5, 2008. Organized by Cedars-Sinai Medical Center, Los Angeles, California. (1. Sudden Death Treatment Debate: ICD Costs Outweigh Modest Benefits 2. Atrial Fibrillation Debate– Medical management is the treatment of choice for the majority of patients)
28. Invited Faculty Speaker, Cardiovascular Update for Primary Care – 2008, Yuba City, California, September 26-27, 2008. (Hypertrophic Cardiomyopathy and Sudden Death in the Young Athlete)
29. Invited Faculty Speaker, The Second Annual Dysrhythmias Symposium, San Antonio, Texas, December 5-6, 2008. Organized by the Division of Cardiology, Texas A&M University. (How to Approach a Patient with Palpitations?) and (Non-invasive Studies for Risk Stratification - Cardiac Substrates and Functions)
30. Invited Faculty Speaker, The Oklahoma Chapter American College of Cardiology Annual Scientific Meeting, Oklahoma City, Oklahoma, April 18, 2009. (Sudden Cardiac Death in Coronary Disease — Who Is Most Susceptible?)
31. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills California, October 1-2, 2009.
32. Invited Faculty Speaker, Lakewood Regional Medical Center, Lakewood, California, February 5, 2009. (Cardiac Electrophysiology Update)
33. Invited Faculty Speaker, University of Southern California Heart Failure Symposium, Los Angeles, California, January 30, 2010. (Implantable Defibrillators in Patients with Heart Failure: Have They Stood the Test of Time?)
34. Invited Faculty Speaker, Los Angeles County Coroner Weekly Seminar, Los Angeles, California, February 4, 2010. (Autopsy Negative Sudden Death: Implications for the Pathologist and Electrophysiologist)
35. Invited Faculty Speaker, Northwest Electrophysiology Society Annual Meeting, Bend, Oregon March 5-7, 2010. (Sudden Cardiac Arrest in the Community: Who is Susceptible?)
36. Faculty Speaker, Cedars-Sinai Medical Center Heart Institute Grand Rounds, April 13, 2010.
37. Faculty Speaker, Cedars-Sinai Medical Center Heart Institute Grand Rounds, June 29, 2010. (Acute management of the arrhythmia while minimizing risk of stroke – what is the evidence?)
38. Faculty Speaker, Cedars-Sinai Medical Center Medical Grand Rounds, September 17, 2010.
39. Invited Faculty Speaker, Primed Symposium, Anaheim, California, May 5, 2010. (Atrial fibrillation- magnitude and susceptibility)

40. Invited Faculty Speaker, Kaiser Permanente 12th Annual Cardiovascular Medicine and Surgery (COAST) Conference, San Francisco, California, September 24-26, 2010. (Epidemiology of atrial fibrillation; sudden cardiac arrest)
41. Invited Faculty Speaker, Medicine Grand Rounds, Harbor-UCLA Medical Center, November 30, 2010. (Sudden cardiac arrest: mechanisms and management)
42. Invited Faculty Speaker, Cardiology Grand Rounds, Harbor-UCLA Medical Center, November 30, 2010. (Susceptibility to sudden death in the general population)
43. Invited Faculty Speaker, Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 29, 2011. (SCD in Women: Prediction, Prevention, and Treatment)
44. Faculty Speaker, Cedars-Sinai Optimal Care and New Therapies for Advanced Heart Disease Symposium, Bakersfield, California, May 21, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
45. Invited Faculty Speaker, San Diego Electrophysiology and Pacing Society Meeting, June 2, 2011. (Sudden Cardiac Death and Ventricular Arrhythmias—An Epidemiologic Perspective)
46. Invited Faculty Speaker, Sharp Memorial Hospital, San Diego, California, June 3, 2011. (Young Athletes and Sudden Death—Should We Screen or Let Them Be?)
47. Invited Faculty Speaker, The California Heart Rhythm Symposium, San Diego, California, September 3, 2011. (Genomic Factors/ Inheritability of SCA)
48. Session Chair, The California Heart Rhythm Symposium, San Diego, California, September 3, 2011. (Ablation of VT/VF)
49. Invited Faculty Speaker, Cedars-Sinai Optimal Care and New therapies for Advanced Heart Disease Symposium, Newport Beach, California, September 17, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
50. Invited Faculty Speaker, Mercy Heart & Vascular Institute 21<sup>st</sup> Annual Symposium 2011 Concepts & Controversies, Sacramento, California, October 8, 2011. (Sudden Death in the General Population: Can We Predict and Prevent?)
51. Faculty Speaker, Cedars-Sinai Optimal Care and New therapies for Advanced Heart Disease Symposium, Las Vegas, Nevada, October 22, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
52. Invited Faculty Speaker, Cardiology Grand Rounds, CA Pacific Medical Center, San Francisco, California, March 7, 2012. (Susceptibility to Sudden Cardiac Death: Nature vs. Nurture)
53. Faculty Speaker, Cedars-Sinai Medical Center Medical Grand Rounds, March 23, 2012. (Sudden Cardiac Arrest: Prevention and Management)
54. Invited Faculty Speaker, Annual Kansas City Heart Rhythm Symposium, Kansas City, Kansas, August 18-19, 2012. (Protagonist: Heart Failure Patients with an EF <35% and Who Failed to Respond to Optimal Therapy Should Get a CRTD!)

55. Invited Faculty Speaker, Providence Tarzana Medical Center, Tarzana, California, September 14, 2012. (Personalized Medicine for the Cardiac Patient: Are we There Yet?)
56. Faculty Speaker, Cedars-Sinai Optimal Care and New Therapies for Advanced Heart Disease Symposium, Riverside, California, September 15, 2012. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
57. Invited Faculty Speaker, Harbor UCLA Medical Grand Rounds, Los Angeles, California, November 20, 2012. (Personalized Medicine for the Cardiac Patient: Are We There Yet?)
58. Invited Faculty Speaker, Pacific Hospital, Long Beach, California, January 14, 2013. (Management of Atrial Fibrillation: When to Ablate, Medicate or Refrain from Either)
59. Faculty Speaker, Cedars-Sinai Medical Center Medicine Grand Rounds, October 18, 2013. (Prevention of Sudden Cardiac Death: Challenges and Opportunities)
60. Invited Faculty Speaker, Pomona Valley Hospital, Pomona, California, September 3, 2013. (Atrial Fibrillation: When to Ablate, Medicate or Refrain from Either)
61. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2013.
62. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 22, 2013.
63. Invited Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21-22, 2013. (Assessing risk of sudden death in the older athlete)
64. Invited Faculty Speaker, Mayo Clinic 2nd Annual Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2013. (Medications for Maintaining Sinus Rhythm: what do the guidelines say?)
65. Invited Faculty Speaker, Mayo Clinic 2nd Annual Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2013. (Stroke in Atrial Fibrillation - Guidelines and Practical Tips)
66. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, January 14, 2014. (Atrial Fibrillation Epidemic: Results & Implications of the WHO's Global Burden of AF Project)
67. Invited Faculty Speaker, Symposium on Personalized Medicine, Western Association of Physicians Annual Scientific Sessions, Carmel, California, January 23, 2014. (Personalized Medicine for The Cardiac Patient: Are We There Yet?)
68. Invited Faculty Speaker, 18th Annual Heart Failure Symposium 2014: Update on Diagnosis and Therapy, Los Angeles, California, April 5, 2014. (The expanding role of CRT- How to maximize the patient's response)
69. Invited Faculty Speaker, Cardiology Grand Rounds, University of Hawaii, Queens Hospital, Oahu, Hawaii, April 7, 2014. (Screening for Sudden Death in the Younger vs. Older Athlete)

70. Invited Faculty Speaker, Cardiology Grand Rounds, Harbor-UCLA Medical Center, Los Angeles, California, April 21, 2014. (Atrial Fibrillation Epidemic: Results and Implications of the WHO's Global Burden of AF Project)
71. Invited Faculty Speaker, 8<sup>th</sup> Annual Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 25, 2014. (Genomics, Channelopathies and Cardiovascular Disease in Women)
72. Invited Faculty Speaker, 8<sup>th</sup> Annual Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 25, 2014. (Cardiac Rhythm Devices in Women: Differences and Similarities)
73. Invited Faculty Speaker, Pathway to Risk Stratification Meeting, Washington, DC, April 29, 2014. (Current SCD risk stratification strategies)
74. Faculty Speaker, Cedars-Sinai Medical Center Emergency Medicine Grand Rounds, Los Angeles, California, September 11, 2014. (Management of Atrial Fibrillation: When to Ablate, Medicate, or Retrain from Either)
75. Session Chair, Session VI Electrophysiology Debate, 25<sup>th</sup> Annual Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2014.
76. Invited Faculty Speaker, 25<sup>th</sup> Annual Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2014. (Impact of the Prophylactic ICD in the Community, Low Impact, Need to Change Strategy)
77. Invited Faculty Speaker, 3<sup>rd</sup> Annual Mayo Clinic Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2014. (PVC's and Cardiomyopathy Cases)
78. Invited Faculty Speaker, 3<sup>rd</sup> Annual Mayo Clinic Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2014. (Debate: Con – VT Ablation Should be Performed Before ICD Implantation Secondary Prevention)
79. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, October 20, 2015. (Prevention of Sudden Cardiac Death Progress and Pitfalls)
80. Invited Faculty Speaker, Los Robles Hospital and Medical Center, Thousand Oaks, California. October 21, 2015. (Wrestling with Sudden Cardiac Arrest: It Takes a Community).
81. Invited Faculty Speaker, Newport Beach Symposium, Newport Beach, California, October 23, 2015. (Personalized Medicine for the Arrhythmia Patient – Are We There Yet?)
82. Invited Faculty Speaker, Bakersfield Heart Symposium, 2<sup>nd</sup> Annual Cardiovascular Symposium, Bakersfield, California, November 14, 2015. (Prevention of Sudden Cardiac Death)
83. Invited Faculty Speaker, Mayo Heart Rhythm Course 2015, Scottsdale, Arizona, December 5, 2015. (Sudden Death in the Young: Evaluation)

84. Invited Faculty Speaker, Mayo Heart Rhythm Course 2015, Scottsdale, Arizona, December 5, 2015. (Commotio Cordis)
85. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, January 18, 2016. (Management of Atrial Arrhythmias Detected in Electrical Devices)
86. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, October 25, 2016. (Age, Atrial Fibrillation and the Fountain of Youth)
87. Invited Faculty Speaker, Central Cardiology Medical Clinic, 3<sup>rd</sup> Annual Cardiovascular Symposium, Bakersfield, California, November 5, 2016. (Management of Cardiac Arrhythmias)
88. Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Disease 2016, Beverly Hills, California, November 18, 2016. (Quiet Yet Serious, Management Immediately)
89. Invited Faculty Speaker, Saint Vincent Medical Center, Los Angeles, California, January 12, 2017. (Advances in Treating Cardiac Arrhythmias)

## Media and the Press

### **ACCEL Interview – American College of Cardiology Extended Learning Audio CD**

Genomics of Sudden Cardiac Death in coronary artery disease (2011 January, Volume 43, No. 01)

### **ACCEL Interview – American College of Cardiology Extended Learning Audio CD**

Genomics of Sudden Cardiac Death (2005 July issue, CD-2)

American Heart Association National News Conference, Annual Scientific Sessions, Dallas, Nov 05 - *Optimizing Location of the AED: Does Neighborhood Socioeconomic Status Matter?*

Chugh SS. Community-Wide Analysis of Sudden Cardiac Death: Clinical and Research Implications. ISHNE World Wide Sudden Cardiac Death Internet Symposium, October 2006.

American Heart Association National News Conference, Annual Scientific Sessions, Dallas, Nov 2013- Warning Signs Preceding Sudden Cardiac Death in Middle Age.

Chugh S. Protein Biomarkers Identify Patients Unlikely to Benefit From Primary Prevention ICDs. PracticeUpdate website. Available at: <http://www.practiceupdate.com/journalscan/13180>. Accessed October 31, 2014.

## **PUBLICATIONS (Total: 184)**

### **Original Papers (Total: 125)**

1. Chugh SS, Wilson RF, Amplatz K. New cusp catheters for improved visualization of ostial left main coronary artery lesions. **Journal of Vascular & Interventional Radiology** 1997; 8(5): 898-9. PMID:9314387

2. Anand IS, Liu D, Chugh SS, Prahash AJ, Gupta S, John R, Popescu F, Chandrashekar Y. Isolated Myocyte Contractile Function Is Normal in Postinfarct Remodeled Rat Heart With Systolic Dysfunction. **Circulation** 1997; 96 (11): 3974-84. PMID:9403622
3. Anand IS, Prasad BAK, Chugh SS, Rao RM, Cornfield DN, Milla CE, Singh N, Singh S, Selvamurthy W. Effects of Inhaled Nitric Oxide and Oxygen in High-Altitude Pulmonary Edema. **Circulation** 1998; 98(22): 2441-5. PMID:9832490
4. Chugh SS, Chan RC, Johnson SB, Packer DL. Catheter Tip Orientation Affects Radiofrequency Ablation Lesion Size in the Canine Left Ventricle. **Pacing Clin Electrophysiol** 1999;22(3):413-20. PMID:10192850
5. Chugh SS, Shen WK, Luria DM, Smith HC. First evidence of premature ventricular complex induced cardiomyopathy: a potentially reversible cause of heart failure. **J Cardiovasc Electrophysiol** 2000;11(3):328-9. PMID:10749356
6. Luria DM, Chugh SS, Munger TM, Friedman PA, Rea RF, Packer DL, et al. Electrophysiologic characteristics of diverse accessory pathway locations of antidromic reciprocating tachycardia. **Am J Cardiol** 2000;86(12):1333-8. PMID:11113408
7. Pierpont GL, Chugh SS, Hauck JA, Gornick CC. Endocardial activation during ventricular fibrillation in normal and failing canine hearts. **Am J Physiol Heart Circ Physiol** 2000;279(4):H1737-47. PMID:11009461
8. Chugh SS, Kelly KL, Titus JL. Sudden Cardiac Death With Apparently Normal Heart. **Circulation** 2000;102(6):649-54. PMID:10931805
9. Luria DM, Nemej J, Etheridge SP, Compton SJ, Klein RC, Chugh SS, et al. Intra-atrial conduction block along the mitral valve annulus during accessory pathway ablation: evidence for a left atrial "isthmus". **J Cardiovasc Electrophysiol** 2001;12(7):744-9. PMID:11469420
10. Luria D, Glikson M, Brady PA, Lexvold NY, Rasmussen MJ, Hodge DO, Chugh SS, et al. Predictors and mode of detection of transvenous lead malfunction in implantable defibrillators. **Am J Cardiol** 2001;87(7):901-4. PMID:11274950
11. Chugh SS, Johnson SB, Packer DL. Altered response to ibutilide in a heart failure model. **Cardiovasc Res** 2001;49(1):94-102. PMID:11121800
12. Chugh SS, Johnson SB, Packer DL. Amplified effects of d,l-sotalol in canine dilated cardiomyopathy. **Pacing Clin Electrophysiol** 2001;24(12):1783-8. PMID:11817813
13. Kammeraad J, Balaji S, Oliver R, Chugh SS, Halperin BD, Kron J, McAnulty JH. Nonautomatic focal atrial tachycardia: characterization and ablation of a poorly understood arrhythmia in 38 patients. **Pacing Clin Electrophysiol** 2003;26(3):736-42. PMID:12698675
14. Chugh SS, Whitesel S, Roberts C, Nagalla S. Genetic basis for chamber-specific ventricular phenotypes in the rat infarct model. **Cardiovasc Res** 2003; 57(2): 477-85. PMID:12566120
15. Chugh SS, Chung K, Zheng Z-J, John B, Kelly K, Titus JL. Cardiac Pathologic Findings Reveal A High Rate of Sudden Cardiac Death of Undetermined Etiology in Younger Women. **Am Heart J** 2003; 146(4): 635-9. PMID:14564316



16. Dogra V, Oliver R, Lapidus J, Balaji S, Kron J, McAnulty J, Chugh SS. Apparent Protective Effect of Increased Left Ventricular Wall Thickness in an ICD Population. **J Cardiac Failure** 2003; 9(5): 412-5. PMID:14583904
17. Chugh SS, Senashova O, Watts A, Tran PT, Zhou Z, Gong Q, Titus JL and Hayflick SJ. Postmortem Molecular Screening in Unexplained Sudden Death. **J Am Coll Cardiol** 2004; 43(9):1625-9. PMID:15120823
18. John B, Titus JL, Edwards WD, Shen W-K, Chugh SS. Global Remodeling of the Ventricular Interstitium in Idiopathic Myocardial Fibrosis and Sudden Cardiac Death. **Heart Rhythm** 2004; 1(2):141-9. PMID:15851145
19. Chugh SS, Jui J, Gunson K, Stecker EC, John BT, Thompson B, Ilias N, Vickers C, Dogra V, Daya M, Kron J, Zheng Z-J, Mensah G, McAnulty J. Current Burden of Sudden Cardiac Death: Multiple Source Surveillance Versus Retrospective Death Certificate-Based Review in a Large US Community. **J Am Coll Cardiol** 2004;44(6):1268-75. PMID:15364331
20. Raitt MH, Connor WE, Morris C, Kron J, Halperin B, Chugh SS, et al. Fish oil supplementation and risk of ventricular tachycardia and ventricular fibrillation in patients with implantable defibrillators: a randomized controlled trial. **JAMA** 2005;293(23):2884-91. PMID:15956633
21. Stecker EC, Vickers C, Waltz J, Socoteanu C, John BT, Mariani R, McAnulty JH, Gunson K, Jui J, Chugh SS. Population-based analysis of sudden cardiac death with and without left ventricular systolic dysfunction: two-year findings from the Oregon Sudden Unexpected Death Study. **J Am Coll Cardiol** 2006;47(6):1161-6. PMID:16545646
22. Stecker EC, Sono M, Wallace E, Gunson K, Jui J, Chugh SS. Allelic Variants of SCN5A and risk of sudden cardiac arrest in patients with coronary artery disease. **Heart Rhythm** 2006;3(6):697-700. PMID:16731473
23. Reinier K, Stecker EC, Vickers C, Gunson K, Jui J, Chugh SS. Incidence of sudden cardiac arrest is higher in areas of low socioeconomic status: A prospective two year study in a large United States community. **Resuscitation** 2006;70(2):186-92. PMID:16814445
24. Stecker EC, Zargarian M, Dogra V, John BT, Kron J, McAnulty JH, Chugh SS. Native QRS Duration Predicts the Occurrence of Arrhythmic Events in ICD Recipients. **Europace** 2006;8(10):859-62. PMID:16920764
25. Kehr E, Sono M, Chugh SS, Jerosch-Herold M. Gadolinium-Enhanced Magnetic Resonance Imaging for Detection and Quantification of Fibrosis in Human Myocardium In-Vitro. **International Journal of Cardiovascular Imaging** 2008; 24(1):61-8. PMID:17429755
26. Chugh SS, Socoteanu C, Reinier K, Waltz J, Jui J, Gunson K. A Community-Based Evaluation of Sudden Death Associated with Therapeutic Levels of Methadone. **Am J Med** 2008;121(1):66-71. PMID:18187075
27. Patel AG, Clark T, Oliver R, Stecker EC, Shapiro MD, Stajduhar K, Kron J, McAnulty JH, Chugh SS. Anomalous Midline Common Ostium of the Left and Right Inferior Pulmonary

Veins: Implications for Pulmonary Vein Isolation in Atrial Fibrillation. **Circulation: Arrhythmia and Electrophysiology** 2008;1(5):407-8. PMID:19808435

28. Reddy PR, Reinier K, Singh T, Mariani R, Gunson K, Jui J, Chugh SS. Physical activity as a trigger of sudden cardiac arrest: The Oregon Sudden Unexpected Death Study. **Int J Cardiol** 2009;131(3):345-9. PMID:18206253
29. Chugh SS, Reinier K, Singh T, Evanado A, Socoteanu C, Peters Dawn, Mariani R, Gunson K, Jui J. Determinants of Prolonged QT Interval and Their Contribution to Sudden Death Risk in Coronary Artery Disease: The Oregon Sudden Unexpected Death Study. **Circulation** 2009;119(5):663-70. PMID:19171855
30. Nichols, GA, Reinier K, Chugh SS. Independent Contribution of Diabetes to Increased Prevalence and Incidence of Atrial Fibrillation. **Diabetes Care** 2009;32(10):1851-6. PMID:19794003
31. Chugh SS, Evanado A, Teodorescu C, Reinier K, Mariani R, Gunson K and Jui J. Women have a lower prevalence of structural heart disease as a precursor to sudden cardiac arrest: The Ore-SUDS (Oregon Sudden Unexpected Death Study). **J Am Coll Cardiol** 2009;54(22):2006-11. PMID:19926005
32. Chugh SS, Reinier K, Balaji S, Uy-Evanado A, Vickers C, Mariani R, Gunson K, Jui J. Population-Based Analysis of Sudden Death in Children: The Oregon Sudden Unexpected Death Study. **Heart Rhythm** 2009;6(11):1618-22. PMID:19879540
33. Rea TD, Cook AJ, Stiell IG, Powell J, Bigham B, Callaway CW, Chugh SS, et al. Predicting Survival following Out-of-hospital Cardiac Arrest: Role of the Utstein Data Elements. **Annals of Emergency Medicine** 2010;55(3):249-57. PMID: 19944488
34. Montanez A, Shehata M, Yeh T, Chugh SS, Liu T, Wang X. Unusual fascicular extrasystoles: where is the site of origin? **Europace** 2010;12(6):895-7. PMID: 20189947
35. Shehata M, Liu T, Joshi N, Chugh SS, Wang X. Atrial Tachycardia Originating from the Left Coronary Cusp near the Aorto-Mitral Junction: Anatomical Considerations. **Heart Rhythm** 2010;7(7):987-91. PMID: 20230911
36. Arking DE, Reinier K, Post W, Jui J, Hilton G, O'Connor A, Prineas RJ, Boerwinkle E, Psaty BM, Tomaselli GF, Rea T, Sotoodehnia N, Siscovick DS, Burke GL, Marban E, Spooner PM, Chakravarti A, Chugh SS. Genome-Wide Association Study Identifies GPC5 as a Novel Genetic Locus Protective Against Sudden Cardiac Arrest. **PLoS ONE** 2010, 5(3): e9879. PMID: 20360844
37. Bezzina CR, Pazoki R, Bardai A, Marsman RF, de Jong JS, Blom MT, Scicluna BP, Jukema JW, Bindraban NR, Lichtner P, Pfeufer A, Bishopric NH, Roden DM, Meitinger T, Chugh SS, Myerburg RJ, Jouven X, Kaab S, Dekker LR, Tan HL, Tanck MW, Wilde AA. Genome-wide association study identifies a susceptibility locus at 21q21 for ventricular fibrillation in acute myocardial infarction. **Nature Genetics** 2010;42(8):688-91. PMID: 20622880
38. Liu T, Shehata M, Nahapetian A, Joshi N, Chugh SS, Wang X. Unusual Wide Complex Tachycardia: What is the Mechanism? **J Cardiovasc Electrophysiol** 2010;21(11):1303-6 PMID:20662978

39. Broberg CS, Chugh SS, Conklin C, Sahn DJ, Jerosch-Herold M. Quantification of Diffuse Myocardial Fibrosis and its Association with Myocardial Dysfunction in Congenital Heart Disease. **Circ Cardiovasc Imaging** 2010;3(6):727-34. PMID: 20855860
40. Rao BH, Sastry BKS, Chugh SS, et al. Contribution of Sudden Cardiac Death to Total Mortality in India - A Population Based Study. **Int J Cardiol** 2012;154(2):163-7. PMID: 20888652
41. Teodorescu C, Reinier K, Dervan C, Evanado A, Samara M, Mariani R, Gunson K, Jui J, Chugh SS. Factors associated with Pulseless Electrical Activity versus Ventricular Fibrillation: The Oregon Sudden Unexpected Death Study. **Circulation** 2010;122(21):2116-22. PMID: 21060069
42. Liu X, Liu T, Shehata M, Nahapetian A, Amorn A, Chugh SS, Wang X. Spontaneously Alternating Forms of the Atrioventricular Node Reentrant Tachycardia. **Pacing Clin Electrophysiol**. 2011;34(5):e43-6. PMID: 21410718
43. Reinier K, Dervan C, Singh T, Uy-Evanado A, Lai S, Gunson K, Jui J, Chugh SS. Increased left ventricular mass and decreased left ventricular systolic function have independent pathways to ventricular arrhythmogenesis in coronary artery disease. **Heart Rhythm** 2011;8(8):1177-82. PMID: 21376836
44. Ng CY, Liu T, Shehata M, Stevens S, Chugh SS, Wang X. Meta-Analysis of Obstructive Sleep Apnea as Predictor of Atrial Fibrillation Recurrence After Catheter Ablation. **The American Journal of Cardiology** April 2011; 108(1); 47–51. PMID: 21529734
45. Liu T, Shehata M, Chang D, Patel JK, Kittleson MM, Kobashigawa JA, et al. Prolonged QT and cardiac arrest after heart transplantation: inherited or acquired? **Journal of electrocardiology**. 2011;44(3):350-2. PMID: 21276590
46. Teodorescu C, Reinier K, Uy-Evanado A, Navarro J, Mariani R, Gunson K, Jui J, Chugh SS. Prolonged QRS duration on the resting ECG is associated with sudden death risk in coronary disease, independent of prolonged ventricular repolarization. **Heart Rhythm** 2011;8(10):1562-67. PMID: 21699869
47. Huang W, Liu T, Shehata M, Zhang K, Yao Y, Niu G, et al. Inducibility of atrial fibrillation in the absence of atrial fibrillation: what does it mean to be normal? **Heart Rhythm** 2011; 8(4):489-92. PMID: 21111062
48. Panikkath R, Reinier K, Uy-Evanado A, Teodorescu C, Hattenhauer J, Mariani R, Gunson K, Jui J, Chugh SS. Prolonged Tpeak to Tend interval on the resting electrocardiogram is associated with increased risk of sudden cardiac death. **Circulation Arrhythmia and Electrophysiology** 2011 Aug;4(4):441-7. PMID: 21593198
49. Reinier K, Thomas E, Andrusiek DL, Aufderheide TP, Brooks SC, Callaway CW, Pepe PE, Rea TD, Schmicker RH, Vaillancourt C and Chugh SS, for the ROC Investigators. Socioeconomic status and incidence of sudden cardiac arrest. **Canadian medical association journal** 2011;183(15):1705-12. PMID:21911550

50. Arking DE, Junttila MJ, Goyette P, Huertas-Vazquez A, Eijgelsheim M, Blom MT, Newton-Cheh, C, Reiner, K, Teodorescu, C, Uy-Evanado, A, Carter-Monroe, N, Kaikkonen, KS, Kortelainen M, Boucher G, Lagacé C, Moes A, Zhao X, Kolodgie F, Rivadeneira F, Hofman A, Wittteman JCM, Uitterlinden AG, Marsman RF, Pazoki R, Bardai A, Koster RW, Dehghan A, Hwang S, Bhatnagar P, Post W, Hilton G, Prineas RJ, Li M, Köttgen A, Ehret G, Boerwinkle E, Coresh J, Linda, Kao WH, Psaty BM, Tomaselli GF, Sotoodehnia N, Siscovick DS, Burke GL, Marbán E, Spooner PM, L Cupples A, Jui J, Gunson K, Kesäniemi YA, Wilde AAM, Tardif J, O'Donnell CJ, Bezzina CR, Virmani R, Stricker BHC, Tan HL, Albert C, Chakravarti A, Rioux JD, Huikuri HV, Chugh SS. Identification of a Sudden Cardiac Death Susceptibility Locus at 2q24.2 through Genome-Wide Association in European Ancestry Individuals. **PLoS Genetics** 2011; 7(6): e1002158. PMID: 21738491
51. Westaway SK, Reinier K, Huertas-Vazquez A, Evanado A, Teodorescu C, Navarro J, Sinner MF, Gunson K, Jui J, Spooner P, Kaab S, and Chugh SS. Common variants in CASQ2, GPD1L and NOS1AP are significantly associated with risk of sudden death in patients with coronary artery disease. **Circ Cardiovasc Genet.** 2011;4(4):397-402. PMID: 21685173
52. Teodorescu C, Reinier K, Uy-Evanado A, Ayala J, Mariani R, Wittwer L, Gunson K, Jui J, Chugh SS. Survival advantage from ventricular fibrillation and pulseless electrical activity in women compared to men: the Oregon Sudden Unexpected Death Study. **J Interv Card Electrophysiol.** 2012 Sep;34(3):219-25. doi: 10.1007/s10840-012-9669-2. PubMed PMID: 22406930; PubMed Central PMCID: PMC3627722.
53. Liu E, Shehata M, Swerdlow C, Amorn A, Cingolani E, Kannarkat V, Chugh SS, Wang X. Approach to the Difficult Septal Atrioventricular Accessory Pathway: The Importance of Regional Anatomy. **Circ Arrhythmia and Electrophysiology** 2012; Jun 1;5(3):e63-6. PMID: 22715241
54. Cingolani E, Yee K, Shehata M, Chugh SS, Marbán E, Cho HC. Biological pacemaker created by percutaneous gene delivery via venous catheters in a porcine model of complete heart block. **Heart Rhythm** 2012] Aug;9(8):1310-8. PMID:22521937
55. Tamarappoo BK, John BT, Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Vulnerable Myocardial Interstitium in Patients with Isolated Left Ventricular Hypertrophy and Sudden Cardiac Death: A Postmortem Histologic Evaluation. **J American Heart Assoc Jun** 2012; 1: e001511. PMID:23130141
56. Lozano R, et al, Chugh SS, et al. Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010. **Lancet.** 2012 Dec 15;380(9859):2095-128. PMID: 23245604
57. Salomon JA, et, Chugh SS, et al. Common values in assessing health outcomes from disease and injury: disability weights measurement study for the Global Burden of Disease Study 2010. **Lancet.** 2012 Dec 15;380(9859):2129-43. PMID: 23245605
58. Vos T, et al, Chugh SS, et al. Years lived with disability (YLDs) for 1160 sequelae of 289 diseases and injuries 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010. **Lancet.** 2012 Dec 15;380(9859):2163-96. PMID:23245607

59. Murray CJ, et al, Chugh SS, et al. Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010. **Lancet**. 2012 Dec 15;380(9859):2197-223. PMID:23245608
60. Havmoeller R, Reinier K, Teodorescu C, Uy-Evanado A, Mariani, R, Gunson K, Jui J, Chugh SS. Low Rate of Secondary Prevention ICDs in the General Population: Multiple-Year Multiple-Source Surveillance of Sudden Cardiac Death in the Oregon Sudden Unexpected Death Study. **J Cardiovasc Electrophysiology** 2013;24(1):60-5. PMID:22860692
61. Liu E, Shehata M, Liu X, Gallik D, Chugh SS, Wang X. A tale of two tachycardias-what is the mechanism? *Pacing Clin Electrophysiol*. 2013;36:768-771. PMID: 22129108
62. Panikkath R, Reinier K, Uy-Evanado A, Teodorescu C, Gunson K, Jui J, Chugh SS. Electrocardiographic predictors of sudden cardiac death in patients with left ventricular hypertrophy. **Annals of Non-Invasive Electrocardiology** 2013 May;18(3):225-9. PMID:23714080
63. Teodorescu C, Reinier K, Uy-Evanado A, Chugh H, Gunson K, Jui J, Chugh SS. Anti-psychotic Drugs Are Associated with Pulseless Electrical Activity: The Oregon Sudden Unexpected Death Study. **Heart Rhythm**. 2013;10(4):526-30. PMID:23220685
64. Huertas-Vazquez A, Teodorescu C, Reinier K, Uy-Evanado A, Chugh H, Jerger K, Ayala J, Gunson K, Jui J, Newton-Cheh C, Albert CM, Chugh SS. A Common Missense Variant in the Neuregulin 1 Gene is associated with Both Schizophrenia and Sudden Cardiac Death. **Heart Rhythm**. 2013;10(7):994-8. PMID:23524320
65. Huertas-Vazquez A, et al, Chugh SS. Novel Loci Associated with Increased Risk of Sudden Cardiac Death in the Context of Coronary Artery Disease. **PLoS ONE**. 2013 Apr 4; 8(4): e59905 PMID:23593153
66. Noheria A, Teodorescu C, Uy-Evanado A, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. Distinctive profile of sudden cardiac arrest in middle-aged vs. Older adults: A community-based study. **Int J Cardiol**. 2013 Oct 9;168(4):3495-9. PMID:23684602
67. Teodorescu C, Reinier K, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Resting heart rate and risk of sudden cardiac death in the general population: Influence of left ventricular systolic dysfunction and heart rate-modulating drugs. **Heart Rhythm** 2013 Aug;10(8):1153-8. PMID:23680897
68. Murray CJ, Abraham J, Ali MK...Chugh SS... et al. The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors. **JAMA** 2013 Aug 14;310(6):591-608. PMID:23842577
69. Stecker E, Reinier K, Uy-Evanado A, Teodorescu C, Chugh H, Gunson K, Jui J, Chugh SS. Relationship between Seizure Episode and Sudden Cardiac Arrest in Patients with Epilepsy: A Community-Based Study. **Circ Arrhythm Electrophysiol** 2013 Oct;6(5):912-6. PMID:23965297
70. Cokic I, Kali A, Wang X, Yang HJ, Tang RL, Thajudeen A, Shehata M, Amorn AM, Liu E, Stewart B, Bennett N, Harlev D, Tsiftaris SA, Jackman WM, Chugh SS, Dharmakumar R. Iron

deposition following chronic myocardial infarction as a substrate for cardiac electrical anomalies: Initial findings in a canine model. **PLoS ONE**. 2013;8(9):e73193. PMID:24066038

71. Ma W, Wang X, Cingolani E, Thajudeen A, Gupta N, Nageh MF, Kannarkat V, Merla R, Chugh SS, Shehata M. Mapping and ablation of ventricular tachycardia from the left upper fascicle: how to make the most of the fascicular potential? **Circ Arrhythm Electrophysiol**. 2013 Aug ;6(4):e47-51. PMID:23962861
72. Narayanan K, Reinier K, Uy-Evanado A, Teodorescu C, Chugh H, Marijon E, Gunson K, Jui J, Chugh SS. Frequency and determinants of ICD deployment among primary prevention candidates with subsequent sudden cardiac arrest in the community. **Circulation** 2013 Oct 15;128(16):1733-8. PMID: 24048201
73. Ma W, Shehata M, Toluie K, Cingolani E, Thajudeen A, Kannarkat V, Merla R, Chugh SS, Wang X. Potentials in the Posterior Fascicle: Active Role or Passive Bystander? **Journal of Cardiovascular Electrophysiology** 2014 Mar;25(3):331-3. PMID:24118458
74. Moran A, Forouzanfar M, Sampson U, Chugh S, Feigin V, Mensah G. The Epidemiology of Cardiovascular Diseases in Sub-Saharan Africa: The Global Burden of Diseases, Injuries and Risk Factors 2010 Study. **Prog Cardiovasc Dis**. 2013 Nov-Dec;56(3):234-9. PMID: 24267430.
75. Chugh SS, Havmoeller R, Narayanan K, Singh D, Rienstra M, Benjamin EJ, Gillum RF, Kim YH, McAnulty JH, Jr., Zheng ZJ, Forouzanfar MH, Naghavi M, Mensah GA, Ezzati M, Murray CJ. Worldwide epidemiology of atrial fibrillation: A global burden of disease 2010 study. **Circulation**. 2014 Feb 25;129(8):837-47. PMID:24345399
76. Havmoeller R, Reinier K, Teodorescu C, Ahmadi N, Kwok D, Uy-Evanado A, Chen Y-D I, Rotter JI, Gunson K, Jui J, Chugh SS. Elevated plasma free fatty acids are associated with sudden death: A prospective community-based evaluation at the time of cardiac arrest. **Heart Rhythm** 2014 Apr;11(4):691-6. PMID:24418168
77. Lemaitre RN, Johnson CO, Hesselton S, Sotoodhenia N, McKnight B, Sitlani CM, Rea TD, King IB, Kwok PY, Mak A, Li G, Brody J, Larson E, Mozaffarian D, Psaty BM, Huertas-Vazquez A, Tardif JC, Albert CM, Lyytikainen LP, Arking DE, Kaab S, Huikuri HV, Krijthe BP, Eijgelsheim M, Wang YA, Reinier K, Lehtimaki T, Pulit SL, Brugada R, Muller-Nurasyid M, Newton-Cheh CH, Karhunen PJ, Stricker BH, Goyette P, Rotter JI, Chugh SS, Chakravarti A, Jouven X, Siscovick DS. Common variation in fatty acid metabolic genes and risk of incident sudden cardiac arrest. **Heart Rhythm**. 2014 Mar;11(3):471-7. PMID:24418166
78. Stecker EC, Reinier K, Marijon E, Narayanan K, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Public Health Burden of Sudden Cardiac Death in the United States. **Circulation Arrhythmia and Electrophysiology** 2014 Apr;7(2):212-7. PMID:24610738
79. Narayanan K, Reinier K, Teodorescu C, Uy-Evanado A, Chugh H, Gunson K, Jui J, Chugh SS. Electrocardiographic Versus Echocardiographic Left Ventricular Hypertrophy and Sudden Cardiac Arrest in the Community. **Heart Rhythm Journal** 2014 Jun;11(6):1040-6. PMID:24657425
80. Alahmar AE, Nelson CP, Snell KIE, Yuyun MF, Musameh MD, Timmis A, Birkhead JS, Chugh SS, Thompson JR, Squire IB, Samani NJ. Resuscitated cardiac arrest and prognosis

following myocardial infarction. **Heart**. 2014 Jul;100(14):1125-32. doi: 10.1136/heartjnl-2014-305696. PubMed PMID: 24763491.

81. Ma W, Shehata M, Cingolani E, Ehdaie A, Chugh SS, Wang X. Post-Ablation Scar-Related Atrial Tachycardia: Turning the Spotlight on P-Wave Analysis and Window Settings. **Circulation Arrhythmia and Electrophysiology** 2014 Aug;7(4):755-9.
82. Kassebaum NJ, et al...Chugh SS...et al. Global, Regional, and National Levels and Causes of Maternal Mortality During 1990-2013: A Systematic Analysis for the Global Burden of Disease Study 2013. **Lancet**. 2014 Sep 13;384(9947):980-1004. doi: 10.1016/S0140-6736(14)60696-6. Erratum in: **Lancet**. 2014 Sep 13;384(9947):956.
83. Reinier K, Marijon E, Uy-Evanado A, Teodorescu C, Narayanan K, Chugh H, Gunson K, Jui J, Chugh SS. The association between atrial fibrillation and sudden cardiac death: the relevance of heart failure. **JACC Heart Fail**. 2014 Jun;2(3):221-7. PMID:24952687
84. Narayanan K, Havmoeller R, Reinier K, Jerger K, Teodorescu C, Uy-Evanado A, Navarro J, Huertas-Vazquez A, Gunson K, Jui J, Chugh SS. Sex Hormone Levels in Patients with Sudden Cardiac Arrest. **Heart Rhythm** 2014 (Published online August 22, 2014).
85. Narayanan K, Reinier K, Teodorescu C, Uy-Evanado A, Aleong R, Huertas-Vazquez A, Chugh H, Nichols GA, Gunson K, London B, Jui J, Chugh SS. Left Ventricular Diameter and Risk of Sudden Cardiac Death. **Journal of the American Heart Association** 2014 Sep 16;3(5).
86. Stecker EC, Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Ischemic heart disease diagnosed prior to sudden cardiac arrest is independently associated with improved survival. **Journal of the American Heart Association** 2014 Oct 6;3(5):e001160. PMID: 25288613
87. Chen H, Shehata M, Chugh SS, Cingolani E, Chen M, and Xunzhang Wang. Differentiating Atrio-ventricular Nodal Reentrant Tachycardia from Junctional Tachycardia: Conflicting Responses? **Circulation Arrhythmia and Electrophysiology** 2015 Feb; 8 (1):232-5.doi:10.1161/CIRCEP.114.002169. PMID: 25691557.
88. Narayanan K, Zhang L, Kim C, Uy-Evanado A, Teodorescu C, Reinier K, Zheng X, Gunson K, Jui J, Chugh SS. QRS Fragmentation and Sudden Cardiac Death in the Obese and Overweight. **JAHA**. 2015 Mar 11;4(3):e001654.doi:10.1161/JAHA.114.001654. PMID: 25762804
89. Thajudeen A, Jackman WM, Stewart B, Cokic I, Nakagawa H, Shehata M, Amorn AM, Kali A, Liu E, Harlev D, Bennett N, Dharmakumar R, Chugh SS, Wang X. Correlation of Scar in Cardiac MRI and High-Resolution Contact Mapping of Left Ventricle in a Chronic Infarct Model. **Pacing Clin Electrophysiol**. 2015 Jun;38(6):663-74. PMID: 25656924
90. Marijon E, Uy-Evanado A, Reinier K, Teodorescu C, Narayanan K, Jouven X, Gunson K, Jui J, Chugh SS. Sudden Cardiac Arrest during Sports Activity in Middle Age. **Circulation**. 2015 Apr 21;131(16):1384-91. PMID: 25847988

91. Zhang L, Narayanan K, Chugh H, Shiota T, Zheng Z, Chugh SS. Factors Influencing Utilization of the Primary Prevention Implantable Defibrillator. **Plos One**. 2015 Mar 20; 10(3):e0121515.doi: 10.1371/journal.pone.0121515. eCollection 2015. PMID : 25794248.
92. Huertas-Vazquez A, Nelson C, Sinsheimer J, Reinier K, Uy-Evando A, Teodorescu C, Ayala J, Hall A, Gunson K, Jui J, Samani N, Chugh SS. Cumulative effects of common genetic variants on risk of sudden cardiac death. **International Journal of Cardiology Heart & Vasculature**. 2015 June 1; 7:88-91. PMID: 26114160.
93. Chen H, Shehata M, Ma W, Xu J, Cao J, Cingolani E, Swerdlow C, Chen M, Chugh SS, Wang X. Atrioventricular Block During Slow Pathway Ablation: Entirely Preventable? **Circ Arrhythm Electrophysiol**. 2015 June; 8 (3):739-44. doi: 10.1161/CIRCEP.114.002498. No abstract available. PMID: 26082530
94. Vos T, et al...Chugh SS...et al. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systemic analysis for the Global Burden of Disease Study 2013. **Lancet**. 2015 Aug 22;386(9995):743-800. doi: 10.1016/S0140-6736(15)60692-4. PMID: 26063472
95. Narayanan K, Reinier K, Uy-Evanado A, Teodorescu C, Zhang L, Chugh H, Nichols GA, Gunson K, Jui J, Chugh SS. Chronic Obstructive Pulmonary Disease and Risk of Sudden Cardiac Death **JACC Clinical Electrophysiology**. 2015;1:381-7.
96. Reinier K, Nichols GA, Huertas-Vazquez A, Uy-Evanado A, Teodorescu C, Stecker EC, Gunson K, Jui J, Chugh SS. Distinctive Clinical Profile of Blacks versus Whites Presenting with Sudden Cardiac Arrest. **Circulation** 2015 Aug 4;132(5):380-7.
97. Aleong RG, Mulvahill MJ, Halder I, Carlson NE, Singh M, Bloom HL, Dudley SC, Ellinor PT, Shalaby A, Weiss R, Gutmann R, Sauer WH, Narayanan K, Chugh SS, Saba S, London B. Left Ventricular Dilatation Increases the Risk of Ventricular Arrhythmias in Patients With Reduced Systolic Function. **J Am Heart Assoc**. 2015 Jul 31;4(8). PMID: 26231842
98. Cokic I, Dharmakumar R, et al. Iron-Sensitive Cardiac Magnetic Resonance Imaging for Prediction of Ventricular Arrhythmia Risk in Patients with Chronic Myocardial Infarction: Early Evidence. **Circ Cardiovasc Imaging** 2015 Aug;8(8). PMID: 26259581
99. GBD 2013 Risk Factors Collaborators, Forouzanfar MH, ....Chugh SS,.....Murray CJ. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. **Lancet**. 2015 Dec 5;386(10010):2287-323. doi: 10.1016/S0140-6736(15)00128-2. PubMed PMID: 26364544; PubMed Central PMCID: PMC4685753.
100. Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Nichols GA, Gunson K, Jui J, Chugh SS. Mitral Valve Prolapse and Sudden Cardiac Arrest in the Community. **Heart Rhythm**. 2016 Feb;13(2):498-503. doi: 10.1016/j.hrthm.2015.09.026. PMID: 26416619
101. Feigin VL, Krishnamurthi RV, Parmar P, Norrving B, Mensah GA, Bennett DA, Barker-Collo S, Moran AE, Sacco RL, Truelsen T, Davis S, Pandian JD, Naghavi M, Forouzanfar MH, Nguyen G, Johnson CO, Vos T, Meretoja A, Murray CJ, Roth GA. Update on the



Global Burden of Ischemic and Hemorrhagic Stroke in 1990-2013: The GBD 2013 Study. **Neuroepidemiology**. 2015; 45(3):161-76. Epub 2015 Oct 28. PMID: 26505982.

102. Krishnamurthi RV, deVeber G, Feigin VL, Barker-Collo S, Fullerton H, Mackay MT, O'Callahan F, Lindsay MP, Kolk A, Lo W, Shah P, Linds A, Jones K, Parmar P, Taylor S, Norrving B, Mensah GA, Moran AE, Naghavi M, Forouzanfar MH, Nguyen G, Johnson CO, Vos T, Murray CJ, Roth GA; GBD 2013 Stroke Panel Experts Group. Stroke Prevalence, Mortality and Disability-Adjusted Life Years in Children and Youth Aged 0-19 Years: Data from the Global and Regional Burden of Stroke 2013. **Neuroepidemiology**. 2015; 45(3): 177-89. Epub 2015 Oct 28. PMID: 26505983.
103. Krishnamurthi RV, Moran AE, Feigin VL, Barker-Collo S, Norrving B, Mensah GA, Taylor S, Naghavi M, Forouzanfar MH, Nguyen G, Johnson CO, Vos T, Murray CJ, Roth GA; GBD 2013 Stroke Panel Experts Group. Stroke Prevalence, Mortality and Disability-Adjusted Life Years in Adults Aged 20-64 Years in 1990-2013: Data from the Global Burden of Disease 2013 Study. **Neuroepidemiology**. 2015; 45(3): 190-202. Epub 2015 Oct 28. PMID: 26505984.
104. Barker-Collo S, Bennett DA, Krishnamurthi RV, Parmar P, Feigin VL, Naghavi M, Forouzanfar MH, Johnson CO, Nguyen G, Mensah GA, Vos T, Murray CJ, Roth GA; GBD 2013 Writing Group; GBD 2013 Stroke Panel Experts Group. Sex Differences in Stroke Incidence, Prevalence, Mortality and Disability-Adjusted Life Years: Results from the Global Burden of Disease Study 2013. **Neuroepidemiology**. 2015;45(3):203-14. Epub 2015 Oct 28. PMID: 26505985.
105. Feigin VL, Mensah GA, Norrving B, Murray CJ, Roth GA; GBD 2013 Stroke Panel Experts Group. Atlas of the Global Burden of Stroke (1990-2013): The GBD 2013 Study. **Neuroepidemiology**. 2015;45(3):230-6. Epub 2015 Oct 28. PMID: 26628059.
106. Phan D, Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. T-wave reversal in the augmented unipolar right arm electrocardiographic lead is associated with increased risk of sudden death. **J Interv Card Electrophysiol**. 2016 Mar;45(2):141-7. doi: 10.1007/s10840-015-0078-1. Epub 2015 Dec 1. PMID: 26628059
107. Reinier K, Narayanan K, Uy-Evanado A, Teodorescu C, Chugh H, Mack WJ, Gunson K, Jui J, Chugh SS. Electrocardiographic Markers and the Left Ventricular Ejection Fraction have Cumulative Effects on Risk of Sudden Cardiac Death. **JACC Clin Electrophysiol**. 2015 Dec 1;1(6):542-550. PubMed PMID: 26949741; PubMed Central PMCID: PMC4776651.
108. Zhang L, Narayanan K, Suryadevara V, Teodorescu C, Reinier K, Uy-Evanado A, Chugh H, Zheng ZJ, Gunson K, Jui J, Chugh SS. Occupation and risk of sudden death in a United States community: a case-control analysis. **BMJ Open**. 2015 Dec 18;5(12):e009413. doi: 10.1136/bmjopen-2015-009413. PMID: 26685031
109. Darouian N, Narayanan K, Aro AL, Reinier K, Uy-Evanado A, Teodorescu C, Gunson K, Jui J, Chugh SS. Delayed Intrinsicoid Deflection of the QRS Complex is Associated with Sudden Cardiac Arrest. **Heart Rhythm**. 2016 Apr;13(4):927-32. doi: 10.1016/j.hrthm.2015.12.022. PubMed PMID: 26699237; PubMed Central PMCID: PMC4807724.
110. Marijon E, Uy-Evanado A, Dumas F, Karam N, Reinier K, Teodorescu C, Narayanan K, Gunson K, Jui J, Jouven X, Chugh SS. Warning Symptoms Are Associated With Survival

From Sudden Cardiac Arrest. **Ann Intern Med.** 2016 Jan 5;164(1):23-9. doi: 10.7326/M14-2342. Epub 2016 Dec 22. PMID: 26720493

111. Liu Q, Shehata M, Sovari AA, Jiang C, Chugh SS, Wang X. Preexcited Tachycardia: Pacing Maneuvers to Distinguish Retrograde Conduction. **J Cardiovasc Electrophysiol.** 2016 Jun;27(6):761-4. doi: 10.1111/jce.12923. PubMed PMID: 26756942.
112. Aro AL, Phan D, Teodorescu C, Uy-Evanado A, Reinier K, Gunson K, Jui J, Huikuri HV, Chugh SS. Cardiac structural and functional profile of patients with delayed QRS transition zone and sudden cardiac death. **Europace.** 2016 March 21. PMID: 27001038.
113. Chua KC, Teodorescu C, Reinier K, Uy-Evanado A, Aro AL, Nair SG, Chugh H, Jui J, Chugh SS. Wide QRS-T angle on the 12-lead ECG as a Predictor of Sudden Death beyond the LV Ejection Fraction. **J Cardiovasc Electrophysiol.** 2016 Apr 20. PMID: 27094232
114. Saggi DK, Sundar G, Nair SG, Bhargava VC, Lalukota K, Chennapragada S, Narasimhan C, Chugh SS. Prevalence of atrial fibrillation in an urban population in India: the Nagpur pilot study. **Heart Asia** 2016;8:56–59.
115. Aro AL, Reinier K, Phan D, Teodorescu C, Uy-Evanado A, Nichols GA, Gunson K, Jui J, Chugh SS. Left-ventricular geometry and risk of sudden cardiac arrest in patients with preserved or moderately reduced left-ventricular ejection fraction. **Europace** 2016 Jun 2. pii: euw126. [Epub ahead of print] PubMed PMID: 27256423
116. Feigin VL, Roth GA, Naghavi M, Parmar P, Krishnamurthi R, Chugh S, Mensah GA, Norrving B, Shiue I, Ng M, Estep K, Cercy K, Murray CJ, Forouzanfar MH; Global Burden of Diseases, Injuries and Risk Factors Study 2013 and Stroke Experts Writing Group. Global burden of stroke and risk factors in 188 countries, during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. **Lancet Neurol.** 2016 Aug;15(9):913-24. doi: 10.1016/S1474-4422(16)30073-4. PubMed PMID: 27291521.
117. Chua KC, Rusinaru C, Reinier K, Uy-Evanado A, Chugh H, Gunson K, Jui J, Chugh SS. Tpeak-to-Tend interval corrected for heart rate: A more precise measure of increased sudden death risk? **Heart Rhythm.** 2016 Nov;13(11):2181-2185. doi: 10.1016/j.hrthm.2016.08.022. PubMed PMID: 27523774; PubMed Central PMCID: PMC5100825.
118. Liu Q, Shehata M, Jiang R, Yu L, Chen S, Zhu J, Ehdaie A, Sovari AA, Cingolani E, Chugh SS, Jiang C, Wang X. Macroreentrant Loop in Ventricular Tachycardia From the Left Posterior Fascicle: New Implications for Mapping and Ablation. **Circ Arrhythm Electrophysiol.** 2016 Sep;9(9). doi: 10.1161/CIRCEP.116.004272. PMID: 27635071
119. Liu Q, Shehata M, Jiang R, Yu L, Zhu J, Ehdaie A, Cingolani E, Chugh SS, Jiang C, Wang X. Mechanisms of Posterior Fascicular Tachycardia: The Relationship Between High Frequency Potentials and the Ventricular Myocardium. **Circ Arrhythm Electrophysiol.** 2016 Sep;9(9). doi: 10.1161/CIRCEP.115.003754. PMID: 27625168
120. Chugh SS, Aro AL. Coronary Ischemia: Global Trigger of Sudden Cardiac Death. **Heart Rhythm.** 2016 Sep 30;PubMed PMID: 27697623.

121. Phan D, Aro AL, Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Left Ventricular Geometry and Risk of Sudden Cardiac Arrest in Patients With Severely Reduced Ejection Fraction. **J Am Heart Assoc.** 2016 Aug 18;5(8). pii: e003715. PubMed PMID: 27930286.
122. Wieneke H, Svendsen JH, Lande J, Spencker S, Martinez JG, Strohmer B, Toivonen L, Le Marec H, Garcia-Fernandez FJ, Corrado D, Huertas-Vazquez A, Uy-Evanado A, Rusinaru C, Reinier K, Foldesi C, Hulak W, Chugh SS, Siffert W. Polymorphisms in the GNAS Gene as Predictors of Ventricular Tachyarrhythmias and Sudden Cardiac Death: Results From the DISCOVERY Trial and Oregon Sudden Unexpected Death Study. **J Am Heart Assoc.** 2016 Nov 28;5(12). pii: e003905. PubMed PMID: 27895044.
123. Aro AL, Rusinaru C, Uy-Evanado A, Reinier K, Phan D, Gunson K, Jui J, Chugh SS. Syncope and risk of sudden cardiac arrest in coronary artery disease. **Int J Cardiol.** 2016 Dec 12. pii: S0167-5273(16)32231-8. doi: 10.1016/j.ijcard.2016.12.021. [Epub ahead of print] PubMed PMID: 27988060.
124. Darouian N, Aro AL, Narayanan K, Uy-Evanado A, Rusinaru C, Reinier K, Gunson K, Jui J, Chugh SS. The Romhilt-Estes electrocardiographic score predicts sudden cardiac arrest independent of left ventricular mass and ejection fraction. **Ann Noninvasive Electrocardiol.** 2017 Jan 3. doi: 10.1111/anec.12424. [Epub ahead of print] PubMed PMID: 28044381.
125. Myung G, Forbess LJ, Ishimori ML, Chugh S, Wallace D, Weisman MH. Prevalence of resting-ECG abnormalities in systemic lupus erythematosus: a single-center experience. *Clin Rheumatol.* 2017 Feb 25. doi: 10.1007/s10067-017-3582-0. [Epub ahead of print] PubMed PMID: 28238088.
126. Lin YN, Chang SS, Wang LM, Chi HT, Ueng KC, Tsai CF, Phan CS, Lu LH, Hii CH, Chung YT, Chugh SS, Chen MF, Wu TJ, Chang KC. Prehospital Predictors of Initial Shockable Rhythm in Out-of-Hospital Cardiac Arrest: Findings From the Taichung Sudden Unexpected Death Registry (THUNDER). *Mayo Clin Proc.* 2017 Mar;92(3):347-359. doi: 10.1016/j.mayocp.2016.10.029. PMID: 28259227
127. Chugh SS. Sudden cardiac death in 2017: Spotlight on prediction and prevention. *Int J Cardiol.* 2017 Mar 22. pii: S0167-5273(17)30705-2. doi:10.1016/j.ijcard.2017.03.086. [Epub ahead of print] PubMed PMID: 28365183.

### Reviews (Total: 29)

1. Chugh SS, Chua TP, Coats AJ. Peripheral chemoreflex in chronic heart failure: friend and foe. **Am Heart J** 1996;132(4):900-4. PMID:8831388
2. Chugh SS, Lurie KG, Lindner KH. Pressor With Promise: Using Vasopressin in Cardiopulmonary Arrest. **Circulation** 1997; 96:2453-54. PMID:9337223
3. Anand IS, Chugh SS. Mechanisms And Management Of Renal Dysfunction In Heart Failure. **Current Opinion in Cardiology** 1997; 12(3): 251-8. PMID:9243082
4. Chugh, SS. Sudden Cardiac Death with Apparently Normal Heart: Clinical Implications of Progress in Pathophysiology. **Cardiac Electrophysiology Review** 2001;5(4):394-402.

5. Chugh SS. Mechanisms of sudden cardiac death: a review of investigative approaches for a global dilemma. **Indian Heart J** 2001;53(3):293-300. PMID:11516027
6. Chugh SS, Blackshear JL, Shen W-K, Hammill SC, Gersh BJ. Epidemiology and Natural History of Atrial Fibrillation: Clinical Implications. **J Am Coll Cardiol** 2001;37(2):371-8. PMID:11216949
7. Arking D, Chugh SS, Chakravarti A, Spooner PM. Genomics in Sudden Cardiac Death. **Circulation Research** 2004;94(6): 712-723. PMID:15059941
8. Stecker EC, Strellich KR, Chugh SS, Crispell K, McAnulty JH. Arrhythmias after orthotopic heart transplantation. **J Card Fail** 2005;11(6):464-72. PMID:16105638
9. Chugh SS, Reinier K, Teodorescu C, Evanado A, Kehr E, Al Samara M, Mariani R, Gunson K, Jui J. Epidemiology of Sudden Cardiac Death: Clinical and Research Implications. **Progress in Cardiovascular Diseases** 2008;51(3):213-28. PMID:19026856
10. Chugh SS, Donahue JK, Kaufman ES, Link M, Markowitz S, Narayan S, Quan K, Tomaselli G, Verdino R, for the CCEP Fellowship Program Directors Group. The Future of Fellowship Training in Clinical Cardiac Electrophysiology: Program Directors' Perspective 2008. **Heart Rhythm** 2009;6(11):1606-12. PMID:19879538
11. Chugh SS. Early identification of risk factors for sudden cardiac death. **Nature Reviews Cardiology** 2010;7(6):318-26. PMID: 20421887
12. Chugh SS. How to Approach Sudden Cardiac Arrest: Current Knowledge and Clinical Practice. **Indian Heart J** 2011 Jul-Aug;63(4):341-6.
13. Fishman GI, Chugh SS, DiMarco J, Albert C, Anderson M, Bonow RO, Buxton A, Chen P-S, Estes NAM, Jouven X, Kwong R, Lathrop D, Mascette A, Nerbonne J, O'Rourke B, Page R, Roden D, Rosenbaum DS, Sotoodehnia N, Trayanova N, Zheng Z-J. Sudden Cardiac Death Prediction and Prevention Report from a National Heart, Lung, and Blood Institute and Heart Rhythm Society Workshop. **Circulation** 2010;122(22):2335-48. PMID: 21147730
14. Stecker EC, Chugh SS. Prediction of sudden cardiac death: next steps in pursuit of effective methodology. **J Interv Card Electrophysiol** 2011;31(2):101-7. PMID: 21384153
15. Link, MS MD, FACC, FHRS, Chair, Exner, DV MD, MPH, FHRS, Anderson, M MD, PhD, Ackerman, M MD, PhD, Al-Ahmad, A MD, FHRS, Knight, B MD, FHRS, Markowitz, SM MD, Kaufman, ES MD, FHRS, Haines, D MD, FACC, FHRS, Asirvatham, SJ MD, Callans, DJ MD, Mounsey, JP BM BCh PhD, Bogun, F MD, Narayan, SM MD, PhD, FHRS, Krahn, AD MD FHRS, Mittal, S MD, FACC, FHRS, Singh, J MD, PhD, Fisher, JD MD, FHRS, Chugh SS, MD, FHRS. Clinical Cardiac Electrophysiology Fellowship Curriculum: Update 2011. **Heart Rhythm**. 2011;8(8):1340-56. PMID: 21699868
16. Estes NA 3rd, Sacco RL, Al-Khatib SM, Ellinor PT, Bezanson J, Alonso A, Antzelevitch C, Brockman RG, Chen PS, Chugh SS, Curtis AB, Dimarco JP, Ellenbogen KA, Epstein AE, Ezekowitz MD, Fayad P, Gage BF, Go AS, Hlatky MA, Hylek EM, Jerosch-Herold M, Konstam MA, Lee R, Packer DL, Po SS, Prystowsky EN, Redline S, Rosenberg Y, Van Wagoner DR, Wood KA, Yue L, Benjamin EJ. American Heart Association Atrial Fibrillation

Research Summit: A Conference Report From the American Heart Association. **Circulation** 2011;124(3):363-72. PMID: 21709057

17. Havmøller RJ, Chugh SS. Plasma biomarkers for prediction of sudden cardiac death: another piece of the risk stratification puzzle? **Circ Arrhythmia and Electrophysiology** 2012;5(1):237-243. PMID: 22334431
18. Liu E, Shehata M, Liu T, Amorn A, Cingolani E, Kannarkat V, Chugh SS, Wang X. Prevention of Esophageal Injury during Radiofrequency Ablation for Atrial Fibrillation. **J Interventional Cardiac Electrophysiology** 2012 Oct;35(1):35-44. PMID:22717996
19. Thajudeen A, Stecker EC, Shehata M, Patel J, Wang X, McAnulty JH Jr, Kobashigawa J and Chugh SS. Arrhythmias After Heart Transplantation: Mechanisms and Management. **J American Heart Assoc Apr** 2012; 1: e001461. PMID:23130132
20. Havmøller R, Chugh SS. Atrial Fibrillation in Heart Failure. **Current Heart Failure Reports** 2012 Dec; 9(4):309-18. PMID:22864857
21. Stevens SM, Reinier K, Chugh SS. Increased Left Ventricular Mass as a Predictor of Sudden Cardiac Death: Is it Time to Put it to The Test? **Circ Arrhythm Electrophysiol.** 2013 Feb 1;6(1):212-7. PMID: 23424223
22. Myerburg RJ, Halperin H, Egan DA, Boineau R, Chugh SS, Gillis AM, Goldhaber JJ, Lathrop DA, Liu P, Niemann JT, Ornato JP, Sopko G, Van Eyk JE, Walcott GP, Weisfeldt ML, Wright JD, Zipes DP. Pulseless electric activity: Definition, causes, mechanisms, management, and research priorities for the next decade: Report from a national heart, lung, and blood institute workshop. **Circulation.** 2013 Dec 3;128(23):2532-41. PMID:24297818
23. Goldberger JJ, Basu A, Boineau R, Buxton AE, Cain ME, Canty JM, Chen P-S, Chugh SS, Costantini O, Exner DV, Kadish AH, Lee B, Lloyd-Jones D, Moss AJ, Myerburg RJ, Olgin JE, Passman R, Stevenson WG, Tomaselli GF, Zareba W, Zipes DP and Zoloth L. Risk Stratification for Sudden Cardiac Death: A Plan for the Future. **Circulation** 2014 Jan 28;129(4):516-526. PMID:24470473
24. Chugh SS, Roth GA, Gillum RF, Mensah GA. Global Burden of Atrial Fibrillation in Developed and Developing Nations. **Global Heart Journal** Mar 2014;Volume 9, Issue 1 , Pages 113-119
25. Chugh SS, Weiss JB. Sudden Cardiac Death in the Older Athlete. **J Am CollCardiol.** 2015 Feb ;65(5):493-502. doi: 10.1016/j.jacc.2014.10.064. Review. PMID: 25660928
26. Narayanan K, Chugh SS. The 12-lead Electrocardiogram and Risk of Sudden Death: Current Utility and Future Prospects. **Europace.** 2015 Oct; Suppl 2:ii7-ii13. doi: 10.1093/europace/euv121. PMID: 26842119
27. Aro AL, Chugh SS. Clinical Diagnosis of Electrical Versus Anatomic Left Ventricular Hypertrophy: Prognostic and Therapeutic Implications. **Circ Arrhythm Electrophysiol.** 2016 Apr. PMID 27009417
28. Suzuki T, Nazarian S, Jerosch-Herold M, Chugh SS. Imaging for assessment of sudden death risk: current role and future prospects. **Europace** 2016 Apr 20. PMID: 27098112

29. Goette A, Kalman JM, Aguinaga L, Akar J, Cabrera JA, Chen SA, Chugh SS, Corradi D, D'Avila A, Dobrev D, Fenelon G, Gonzalez M, Hatem SN, Helm R, Hindricks G, Ho SY, Hoit B, Jalife J, Kim YH, Lip GY, Ma CS, Marcus GM, Murray K, Nogami A, Sanders P, Uribe W, Van Wagoner DR, Nattel S. EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: Definition, characterization, and clinical implication. **Heart Rhythm**. 2017 Jan;14(1):e3-e40. doi:10.1016/j.hrthm.2016.05.028. PubMed PMID: 27320515.

### **Book Reviews (Total: 1)**

1. Clinical Cardiac Pacing, Defibrillation, and Resynchronization Therapy, 5th Edition. By Kenneth A. Ellenbogen, Bruce L. Wilkoff, G. Neal Kay, Chu-Pak Lau, and Angelo Auricchio. Philadelphia, PA: Elsevier, Inc., 1232 pages, ISBN: 978-0-323-37804-8. Pacing and Clinical Electrophysiology

### **Editorials (Total: 15)**

1. Chugh SS. Confronting the genetic complexity of atrial fibrillation: This too shall pass. **Heart Rhythm** 2007;4(4):476-7. PMID:17399637
2. Chugh SS, Reinier K, Stecker EC. Learning From a Real World Analysis of ICD Recipients: Co-Morbidities Matter. **J Am Coll Cardiol** 2007; 49(25):2416-8.
3. Chugh SS, Reinier K. Predicting sudden death in the general population: another step, N terminal B-type natriuretic factor levels. **Circulation** 2009;119(22):2863-4. PMID: 19506123.
4. Chugh SS. Genomics revolution: forging a path to the arrhythmia patient. **Heart Rhythm** 2010;7(8):1149-50. PMID: 20580944
5. Marcus FI, Chugh SS. Unexplained sudden cardiac death: an opportunity to identify hereditary cardiac arrhythmias. **European Heart Journal** 2011;32(8):931-3. PMID: 21239419
6. Chugh SS. Improved outcomes for cardiac arrest in children share the baton with the bystander. **Journal of the American College of Cardiology** [Editorial]. 2011 May 3;57(18):1829-30. PMID: 21527157
7. Chugh SS. Approach to unexplained sudden death in the young: proactive during life and prospective at death. **Europace** 2011;13(10): 1364-5. PMID: 21846641
8. Chugh SS, Cingolani E. Identifying the high-risk Brugada Syndrome patient: Let us get personal. **Heart Rhythm** 2012 Feb 25. [Epub ahead of print] PMID: 22373795
9. Reinier K, Chugh SS. An intersection of atrial fibrillation with sudden death: Look both ways, and proceed with caution. **JAMA Intern Med**. 2013 Jan 14;173(1): 35-7. PMID:23403466
10. Chugh SS, Huertas-Vazquez A. Inherited arrhythmia syndromes: Exome sequencing opens a new door to diagnosis. **Journal of the American College of Cardiology** 2014 Jan 28;63(3):267-8. PMID:24076289
11. Reinier K, Chugh SS. Obesity and sudden death: visceral response? **Heart**. 2015 Feb;101(3):165-6. PMID: 25502517

12. Narayanan K, Chugh SS. Sympathectomy for CPVT Patients: Should We Have the Nerve? **Circulation**. 2015 Jun 23;131(25):2169-71. PMID: 26019153
13. Chua KC, Nair SG, Chugh SS. Risk markers of sudden death on the 12-lead ECG: Tpeak-Tend intervals makes the cut. **Heart Rhythm** 2015 Aug;12(8):1798-9. PMID: 25998896
14. Chugh SS, Uy-Evanado A. Improved Prediction of Sudden Cardiac Death Risk: Staying Within the Echocardiogram but Extending Beyond the Ejection Fraction. **Circ Cardiovasc Imaging**. 2016 Aug;9(8). PMID: 27496551
15. Chugh SS, Aro AL, Reinier K. The Conundrum of Defibrillators in the Elderly. **J Am Coll Cardiol**. 2017 Jan 24;69(3):275-277. doi: 10.1016/j.jacc.2016.10.063. PubMed PMID: 28104070.

#### Letters (Total: 8)

1. Chugh SS, Kelly KL, Titus JL. Sudden Cardiac Death in Mitral Valve Prolapse Response. **Circulation** 2001;103(16):e88.
2. Chugh SS, Reinier K. Increased Assessment and Monitoring Needed for Methadone Patients – The Reply. **Am J Med** 2008;121(5):e25. PMID:18456018
3. Chugh SS, Teodorescu C, Reinier K. Methadone Associated Sudden Cardiac Death? The Reply. **Am J Med** 2008;121(9):e13. PMID:18724943
4. Reinier K, Chugh SS. Sudden Death in Pediatric Population: Response. **Heart Rhythm**. 2010;7(4):e2. PMID:20188687
5. Panikkath R, Reinier K, Uy-Evanado A, Teodorescu C, Hattenhauer J, Mariani R, Gunson K, Jui J, Chugh SS. Response to letter regarding article, "prolonged tpeak to tend interval on the resting electrocardiogram is associated with increased risk of sudden cardiac death". **Circ Arrhythm Electrophysiol** 2011;4(6):e88. PMID: 22203666
6. Chugh SS, Reinier K. Sudden cardiac arrest (letter). **CMAJ** 2012;184(2):214. PMID:22312026
7. Marijon E, Uy-Evanado A, Reinier K, Teodorescu C, Narayanan K, Jouven X, Gunson K, Jui J, Chugh SS. Response to Letter Regarding Article, "Sudden Cardiac Arrest During Sports Activity in Middle Age". **Circulation** 2015 Dec 1;132(22):e356. PMID: 26621659
8. Aro AL, Rusinaru C, Chugh SS. Reply to the letter to editor "Syncope is a risk of sudden cardiac arrest in coronary artery disease". **Int J Cardiol**. 2017 Feb 1. pii: S0167-5273(17)30253-X. doi: 10.1016/j.ijcard.2017.01.136. [Epub ahead of print] PubMed PMID: 28169060.

#### Book Chapters (Total: 6)

1. Chugh SS. Novel Predictors of Sudden Cardiac Death. In, *Electrical Diseases of the Heart: Genetics, Mechanisms, Treatment, Prevention*, First Edition . Editors – Gussak I, Antzelevitch C. **Springer-Verlag London Ltd** 2008.
2. Chugh SS, Wood, MA. ICD Follow-up and Troubleshooting. In, *Cardiac Pacing and ICDs*, Fifth Edition (**Blackwell Publishing**). Editors – Ellenbogen KA and Wood MA (2008).
3. Chugh SS, Teodorescu C, Evanado A, Reinier K. Sudden Unexplained Death in the Community. In, *Clinical Care in Inherited Cardiac Syndromes*, First Edition (**Springer-Verlag London Ltd**). Editors – Brugada R, et al (2009).
4. Noheria A, Chugh SS. Epidemiology of Ventricular Arrhythmia. In, *Ventricular Arrhythmias: From Principles to Patients*, First Edition (**Nova Science Publishers, Inc.**, Hauppauge, New York). Editors – Kocheril P, Sovari A, Dudely S (2012).
5. Chugh SS, Havmoller R, Teodorescu C, Huertas-Vazquez A, Uy-Evanado A, Reinier K. Novel Predictors of Sudden Cardiac Death. I In, *Electrical Diseases of the Heart: Genetics, Mechanisms, Treatment, Prevention*, Second Edition. Editors – Gussak I, et al. **Springer-Verlag London Ltd** 2012.
6. Chugh SS. Medicine Update 2016-1 (Progress in Medicine 2016) 2<sup>nd</sup> Volume. Association of Physicians – India. Editors – Wander GS and Pareek KK. **Jaypee – The Health Sciences Publisher**, New Delhi 2017.

#### **Published Abstracts**

1. Chugh SS, Prahash A, Popescu F, Liu D, Chandrashekhar Y, Anand IS (University of Minnesota). Increase In Myocyte Length Contributes To Global Left Ventricular Remodeling And Systolic Dysfunction In The Rat Infarct Model. **Circulation** 1996 (abstract); 94(suppl):I138-39.
2. Anand IS, Liu D, Prahash A, Chugh SS, Popescu F, Chandrashekhar Y (University of Minnesota). Intrinsic Myocyte Dysfunction Does Not Explain Global Left Ventricular Dysfunction In The Remodeled Rat Infarct Heart. **Circulation** 1996 (abstract); 94(suppl): I673.
3. Chugh SS, Prahash A, Liu D, Chandrashekhar Y, Anand IS (University of Minnesota). Low Extracellular Calcium In The Normal Heart Simulates The Altered Pressure Volume Relationship Seen In The Remodeled Infarcted Rat Heart. **Journal of Molecular and Cellular Cardiology** 1996 (abstract); 28(6): A204
4. Pierpont GL, Chugh SS, Pederson BD, Alwin J, Hauck J, Weigenant JM, Gornick CC. Quantitative Differences in Ventricular Fibrillation in Dilated Cardiomyopathy Compared to Normal Hearts. **Circulation** 1997 (abstract); 96(suppl): I-123.
5. Anand IS, Prasad BAK, Chugh SS, Rao KRM, Singh S, Singh N, Cornfield D, Selvamurthy W. Inhaled Nitric Oxide in High Altitude Pulmonary Edema. **Circulation** 1997 (abstract); 96(suppl): I-427.



6. Chugh SS, Prahash AJ, Liu D and Anand IS (University of Minnesota). Positive Inotropic Effect of Amiodarone on Isolated Cardiac Myocytes. **J Am Coll Cardiol** 1997 (abstract); 29(2 suppl A): 41A.
7. Pierpont GL, Chugh SS, Pederson BD, Alwin JJ, Hauck JA, Weigenant JM, Gornick CC. Quantitative Analysis of Left Ventricular Endocardial Activation During Progressive Ventricular Fibrillation. **J Am Coll Cardiol** 1998; 31(2) Suppl: 474A
8. Chugh SS MD, Johnson S, Packer D. CHF-related Ventricular Arrhythmias With Ibutilide Infusion. **PACE** 1998;21(4) Part II;846
9. Chugh SS MD, Kelly K, Titus J. Sudden Cardiac Death With Apparently Normal Hearts: Revisiting Their Past From A 13-Year Autopsy Series. **PACE** 1998; 21(4) Part II; 981
10. Chugh SS MD, Prahash A, Gupta S, Anand I. Mechanism Of Positive Inotropic Effect Of Amiodarone On The Isolated Cardiac Myocyte. **Archives des maladies du coeur et des vaisseaux** 1998; 91(SIII):15-4
11. Chugh SS, MD, Johnson S, Packer D. Rate-Dependent Effects Of Ibutilide In CHF. **Archives des maladies du coeur et des vaisseaux** 1998; 91(SIII):15-6
12. Chugh SS, MD, Kelly K, Titus J. Sudden Cardiac Death With A Clinically Normal Heart : Revisiting The Past Of Archived Hearts in a 13-Year Series. **Archives des maladies du coeur et des vaisseaux** 1998; 91(SIII)
13. Chugh SS, MD, Johnson S, Packer D. Significant Modulation of Ibutilide Effects in Heart Failure. **Circulation** 1998; 98(17) Suppl: I-679.
14. Chugh SS, MD, Johnson S, Packer D. Sotalol Effects Are Exaggerated in CHF: Action Potential Duration and Reverse Use-Dependence In-Vivo. **J Am Coll Cardiol** 1999;33(2):131A
15. Chugh SS, MD, Johnson S, Packer D. Impact of CHF on Type III Anti-arrhythmic Drug Therapy. **PACE** 1999;22(4 Part II):759.
16. Chugh SS MD, Johnson S, Packer D. Ibutilide Enhances Sotalol-induced Prolongation of Repolarization In The Intact Canine Heart. **PACE** 1999;22(4 Part II):760.
17. Luria D, Chugh SS, MD, Lexvold N, Hammill S, Friedman P. High Rate of Long Term Endovascular Lead Failure with Abdominally Placed Implantable Defibrillators. **Circulation** 1999;100(18): I-568.
18. Ozchan C, Freidman P, Chugh SS, Luria D, Shen W. Progression to Chronic Atrial Fibrillation Following AVN Ablation and Pacemaker Implantation. **Circulation** 1999;100(18): I-70.
19. Luria DM, Chugh SS, Jahangir A, Munger TM, Friedman PA, Rea RF, Packer DL, Hammill SC, Shen WK. Manifestation of Antidromic Reciprocating Tachycardia in Subjects With Paraseptal Accessory Pathways. **J Am Coll Cardiol** 2000; 35(2, Suppl. A):155.
20. Luria D, Nemej J, Chugh SS, Shen WK, Hammill S, Friedman P. The Presence of A Left Atrial "Isthmus" – Implications For Radiofrequency Ablation of Lateral Accessory Pathways. **J Am Coll Cardiol** 2000; 35(2, Suppl. A): 157

21. Chugh SS MD, Asirvatham S, Luria D, Packer D. Distinguishing Right Atrial versus Right Superior Pulmonary Vein Foci in Atrial Tachycardias: Clues from Coronary Sinus Activation and Right Atrial Electrogram Morphology. **PACE** 2000;23(4PartII).
22. Luria D, Chugh SS, Brady PA, Munger T, Friedman P, Robert RF, Hammill SC, Shen WK, MD. Mayo Clinic, Rochester, MN. Hypotension during supraventricular tachycardia: important role of atrioventricular delay. **PACE** 2000;23(4PartII).
23. Chugh SS, Whitesel S, Rodland M, Nagalla S. Oregon Health Sciences University, Portland, OR. Distinct Patterns of Atrial vs Ventricular Gene Expression are Reduced in CHF: A Microarray Gene Profiling Study of Post-Infarction Electrical Remodeling. **PACE** 2001;24(4PartII):623.
24. Chugh SS, Whitesel S, Tran S, Turner M, Nagalla S. Oregon Health Sciences University, Portland OR. Understanding Arrhythmogenesis Through Genomics: cDNA Microarray Analysis of Ventricular Myocardial Gene Expression in Heart Failure. **PACE** 2001;24(4PartII):654.
25. John B, Chugh SS, Okouchi M, McAnulty JH and Titus JL. Jesse E. Edwards Registry of Cardiovascular Disease, St Paul MN & Oregon Health Sciences University, Portland OR. Significant Incidence of Unexplained Myocardial Interstitial Fibrosis: Can it Explain Sudden Cardiac Death? **PACE** 2001;24(4PartII):715.
26. Chugh SS, Zheng Z, John B, Okouchi M, McAnulty JM, Titus JL. Jesse E Edwards Registry of Cardiovascular Disease, St Paul MN; Oregon Health Sciences University, Portland OR & Centers for Disease Control & Prevention, Atlanta GA. Increasing Incidence of Sudden Cardiac Death in Younger Women: Insights Regarding Mechanisms from a Large Autopsy Series of Sudden Death. **PACE** 2001;24(4PartII):654
27. Chugh SS, Whitesel S, Nagalla S. Oregon Health Sciences University, Portland OR. Functional Genomics of Arrhythmogenesis in the Rat Infarct Model. **EUROPACE** 2001;2(suppl)B8.
28. Chugh SS, Whitesel S, Nagalla S. Oregon Health Sciences University, Portland OR. Molecular Basis of Atrial Arrhythmia in Ventricular Ischemic Syndromes. **EUROPACE** 2001;2(suppl)B171.
29. Chugh SS, McAnulty JH, Titus JL. Oregon Health Sciences University, Portland OR and Jesse E Edwards Registry of Cardiovascular Disease. Mechanisms of Increased Sudden Death Incidence in Young American Women. **EUROPACE** 2001;2(suppl)B91.
30. Chugh SS, Whitesel S, Nagalla S. Oregon Health Sciences University, Portland OR. Molecular Basis of Atrial Arrhythmia Following Myocardial Infarction. American Heart Association Scientific Conference on Molecular, Integrative, and Clinical Approaches to Myocardial Ischemia, Seattle WA, Aug 2001
31. Chugh SS, Whitesel S, Nagalla S. Oregon Health Sciences University, Portland OR. Genetic Basis of Electrical Remodeling in Heart Failure: What Transpires in the Right Ventricle? **J Cardiac Failure** Sep 2001
32. Chugh SS, Whitesel S, Turner M, Charles Roberts, Srinivasa Nagalla. Oregon Health & Science University, Portland OR. Genetic Basis for Chamber-Specific Ventricular Phenotypes in a Rat Model of Heart Failure and Sudden Death. **PACE** 2002;25(4 Part II):530

33. Chugh SS, Whitesel S, Turner M, Nagalla S. Molecular basis of electrical remodeling in the infarct zone. **J Am Coll Cardiol**;41(6 Suppl A):354A
34. Chung K, John B, Dogra V, Zheng Z, Titus J and Chugh SS. Sex Selection in Unexplained Sudden Cardiac Death. **J Am Coll Cardiol**;41(6 Suppl A):87A
35. Dogra V, Oliver R, Lapidus J, Raitt M, Kron J, McAnulty, J, Chugh SS. QRS Duration is a Predictor of Therapy-Free Survival in ICD Patients. **PACE** 2003;26(4 Part II):1081
36. John B, Titus JL, Edwards W, Shen WK, Chugh SS. Globally Altered Myocardial Interstitium in Young Adults with Sudden Cardiac Death and Apparently Localized Idiopathic Cardiac Fibrosis. AHA Scientific Conference on Molecular Mechanisms of Growth, Death and Regeneration in the Myocardium, August 13-17, 2003.
37. Chugh SS, Dogra V, Thompson B, Ilias N, Danna D, John B, Zheng Z-J, Mensah G, Gunson K, Daya M, Kron J, Jui J, McAnulty J for the Oregon SUDS group. Annual Incidence of Sudden Cardiac Death Based on Operative Definition: A Prospective, Population-Based, Countywide Study Using Multiple Sources. **Circulation** 2003;108(17 Suppl IV):IV-1040
38. Raitt M, Connor W, Morris C, Kron J, Halperin B, Chugh SS, McClelland J, Cook J, MacMurdy K, Swenson R, Connor S, Gerhard G, Oseran D, Marchant C, Calhoun D, Snyder R, McAnulty J. Antiarrhythmic Effects of n-Polyunsaturated Fatty Acids in Survivors of Ventricular Tachyarrhythmias. **Circulation** 2003;108:2723
39. Tamarappoo BK, John B, Chugh SS. Involvement of TGFB-1 in myocardial fibrosis and sudden cardiac death. American College of Physicians Annual Meeting (Oregon Chapter), Eugene, OR.
40. Ilias N, Stecker E, Zheng Z, Mensah G, Jui J, Chugh SS. Validation of Death Certificate-Defined Sudden Cardiac Deaths Using A Prospective Community-Based Registry. AHA Annual Epidemiology Sessions, San Francisco March 4, 2004. **Circulation** 2004.
41. Chugh SS, Jui J, Gunson K, Stecker E, John BT, Thompson B, Vickers C, Arora M, Kron J, Zheng Z, Mensah G and McAnulty J. Current Burden of Sudden Death in the General Population: Prospective Incidence, Survival and Surveillance in a Large US Community. **Heart Rhythm** 2004;1(1) Suppl:S104
42. Chugh SS, Senashova O, Watts A, Zhou Z, Gong Q, Titus JT and Hayflick SJ. Frequency of Concealed Gene Defects in Unexplained Sudden Death. **Heart Rhythm** 2004;1(1) Suppl:S137
43. John BT, Titus JL, Edwards WD, Shen WK and Chugh SS. Human Model of Isolated Myocardial Interstitial Fibrosis and Fatal Arrhythmia. **Heart Rhythm** 2004;1(1) Suppl:S73
44. Chugh SS, Stecker E, John BT and Gunson K. Sudden Cardiac Death with Apparently Normal Heart: Are We Underestimating Incidence in the Community? **Heart Rhythm** 2004;1(1) Suppl:S263
45. Chugh SS, Kaprio J, Koskenvuo M, Christensen K and Faire U. Genetic Contribution to Sudden Cardiac Death in a Large Cohort of Finnish Twins. **Heart Rhythm** 2004;1(1)

46. John BT, Stecker EC, Gunson K, Chugh SS. Risk of Fatal Arrhythmogenesis in LVH: Increased Myocardial Collagen Content and Decreased Collagen Type I/III Ratio are Potential Contributors. **Circulation** 2004;110(17)Suppl:III501
47. Dervan C, Stecker EC, Miu C, Narapasetty K, Vickers C, Waltz J, John BT, Gunson K, McAnulty JH, Chugh SS. Arrhythmia Or Thrombosis: What is the Dominant Mechanism of Sudden Cardiac Death Risk Conferred by LVH? **J Am Coll Cardiol** 2005;45(3SupplA):109A
48. Stecker EC, Vickers C, Waltz J, Arora M, Narapasetty K, John BT, Mariani R, Gunson K, Jui J, McAnulty JH, Chugh SS. The Large Majority of Sudden Cardiac Death Cases Do Not Have Severe Left Ventricular Dysfunction: Prospective Evaluation of Alternative Risk Predictors in a Two-Year, Community-Based Study. **J Am Coll Cardiol** 2005 2005;45(3SupplA):446A
49. Ito H, Stecker EC, Narapasetty K, Reinier K, Vickers C, Waltz J, Mariani R, Gunson K, Jui J, McAnulty JH and Chugh SS. Renal Insufficiency is an Independent Predictor of Sudden Cardiac Death in Subjects with Coronary Artery Disease: Findings from the Oregon Sudden Unexplained Death Study. **Heart Rhythm** 2005;2(5)Suppl:S113.
50. Stecker EC, Narapasetty K, Miu C, Vickers C, Waltz J, John BT, Gunson K, Jui J, McAnulty JH and Chugh SS. Projected Effectiveness of the ICD: Best-Case Scenario for Prevention of Sudden Cardiac Death in the General Population. **Heart Rhythm** 2005;2(5)Suppl:S203.
51. Waltz J, Miu C, Vickers C, Stecker EC, Mariani R, John BT, Reinier K, Jui J, Gunson K and Chugh SS. Therapeutic Use of Methadone: Are We Trading Low Cost for High Arrhythmogenesis? **Heart Rhythm** 2005;2(5)Suppl:S151.
52. Reinier K, Stecker EC, Narapasetty K, Vickers C, Waltz J, Miu C, John BT, Mariani R, Gunson K, Jui J, McAnulty JH and Chugh SS. Obesity Contributes to Risk of SCD in the General Population and Prolongation of Ventricular Repolarization is a Potential Mechanism. **Heart Rhythm** 2005;2(5)Suppl:S146.
53. Dervan C, Stecker E, Narapasetty K, Miu C, Vickers C, Waltz J, Mariani R, Reinier K, Gunson K, Jui J, McAnulty J and Chugh SS. Rising Prevalence of Pulseless Electrical Activity: What Determines Occurrence of PEA vs. VF in the General Population? **Heart Rhythm** 2005;2(5)Suppl:S61.
54. Reinier K, Stecker EC, Vickers C, Waltz J, Mariani R, Miu C, Narapasetty K, Gunson K, Kron J, Jui J, McAnulty JH, Zheng Z and Chugh SS. Incidence of Sudden Cardiac Death is Higher in Areas of Low Socioeconomic Status: Results from the Oregon Sudden Unexplained Death Study (Ore-SUDS). **Heart Rhythm** 2005;2(5)Suppl:S23.
55. Chugh SS, Reinier K, Wallace E, Stecker EC, Singh T, Jui J. Optimizing Location of the AED: Does Neighborhood Socioeconomic Status Matter? **Circulation** 2005;112(17)Suppl:II791.
56. Stecker EC, Reinier K, Dervan C, Singh T, Socoteanu C, Gunson K, Jui J and Chugh SS. Sudden Cardiac Arrest with Normal Ejection Fraction: How Often is Coronary Ischemia the Trigger? **J Am Coll Cardiol** March 2006;47(4 Suppl A):7A
57. Singh T, Wallace E, Socoteanu C, Reinier K, Dervan C, Stecker EC, Vickers C, Post W, Spooner P, Gunson K, Jui J and Chugh SS. Patients With Coronary Artery Disease that Suffer Sudden Cardiac Death Have Exaggerated Prolongation of Ventricular Repolarization: A Three-Year Community-Wide Study. **J Am Coll Cardiol** March 2006;47(4 Suppl A):6A

58. Celia Dervan, Tejwant Singh, Kyndaron Reinier, Carmen Socoteanu, Erin Wallace, Eric C. Stecker, Catherine Vickers, Karen Gunson, Jonathan Jui and Chugh SS. Increased Sudden Death Risk Conferred by LVH is Independent of Age and Left Ventricular Dysfunction: A Three-Year Community-Wide Study in Patients with Established Significant Coronary Artery Disease. **J Am Coll Cardiol** March 2006;47(4 Suppl A):8A
59. Chugh SS, Kyndaron Reinier, Catherine Vickers, Carmen Socoteanu, Erin Wallace, Tejwant Singh, Seshadri Balaji, Ronald Mariani, Karen Gunson, Jonathan Jui. Population-Based Analysis of Sudden Cardiac Arrest in Children: Three-year Findings from the Oregon Sudden Unexpected Death Study. **Heart Rhythm** 2006;3(3Suppl1):S172
60. Tejwant Singh, Kyndaron Reinier, Erin Wallace, Carmen Socoteanu, Celia Dervan, Wendy Post, Peter Spooner, Karen Gunson, Jonathan Jui and Chugh SS. Acquired Long QT Syndrome is a Common Finding in Sudden Cardiac Arrest: Relative Contribution of Intrinsic Myocardial Abnormalities Vs. QT Prolonging Drugs. **Heart Rhythm** 2006;3(3Suppl1):S59
61. Tejwant Singh, Kyndaron Reinier, Celia Dervan, Eric Stecker, Chugh SS. A Novel, Independent, 12-lead ECG-Based Risk Predictor of Sudden Cardiac Arrest in Patients with Established Coronary Artery Disease. **Heart Rhythm** 2006;3(3Suppl1):S103
62. Eric C. Stecker, Megan Sono, Erin Wallace, Carmen Socoteanu, Tejwant Singh, Matthew Kron, Wendy Post, Peter Spooner, Chugh SS. Allelic Variants of SCN5A Do Not Affect Risk of Sudden Cardiac Arrest in Patients with Coronary Artery Disease. **Heart Rhythm** 2006;3(3Suppl1):S97
63. Eric C. Stecker, Tejwant Singh, Erin Wallace, Kyndaron Reinier, Catherine Vickers, Ronald Mariani, Chugh SS. The Undetected Prophylactic ICD Candidate: How Can We Enhance Detection on a Community-Wide Basis? **Heart Rhythm** 2006;3(3Suppl1):S105
64. Socoteanu C, Reinier K, Mariani R, Jui J, Gunson K, Chugh SS. Sudden and Unexpected Death with Therapeutic Levels of Methadone: A Community-Based, Case-Control Study. **Heart Rhythm** May 2007.
65. Chugh SS, Reinier K, Uy A, Socoteanu C, Mariani R, Gunson K, Jui J. QRS Duration is a Determinant of Sudden Cardiac Arrest in Coronary Artery Disease: A Five-Year, Prospective, Population-Based Case-Control Study. **Heart Rhythm** May 2007.
66. Chugh SS, Dervan C, Reinier K, Socoteanu C, Uy A, Mariani R, Gunson K, Jui J. Synergy Between Severe LV Systolic Dysfunction and LVH for Risk of Sudden Cardiac Death. **Circulation** 2007;116:II728.
67. Rea T, Cook A, Chugh SS, Powell J, Beaudoin T, Callaway C, Bingham B, Idris A, V Thiruganasambandamoorthy, Morrison L, Wittwer L, Terndrup T, Aufderheide T, Davis D, Stiell I, Nichol G. Predictors of cardiac arrest survival: Influence of the Utstein elements Resuscitation Outcomes Consortium Epistry – Cardiac Arrest. **Circulation** Oct 2007.
68. Singh T, Reinier K, Uy-Evanado A, Mariani R, Gunson K, Jui J, Chugh SS. Who Suffers Sudden Cardiac Arrest as the First Manifestation of Heart Disease? A Population-based Comparison of Cardiac Arrest With and Without Prior Coronary Events. **J Am Coll Cardiol** March 2008.

69. Tamarappoo BK, John BT, Clegg S, Gunson K, Chugh SS. Novel Basis of Interstitial Remodeling in Left Ventricular Hypertrophy and Sudden Cardiac Death. **J Am Coll Cardiol** March 2008.
70. Audrey Uy-Evanado, Kyndaron Reinier, Elizabeth L. Kehr, Ronald Mariani, Karen Gunson, Jonathan Jui and Chugh SS. Only the Good Die Young: Distinctive Profile of Sudden Cardiac Arrest in the Younger (35-60) vs. Older (60+) Residents of the General Population. **Heart Rhythm** May 2008.
71. Stacey Clegg, Kyndaron Reinier, Audrey Uy-Evanado, Ronald Mariani and Sumeet S. Chugh. Gender Differences and Sudden Cardiac Death in the General Population: Is There Equal Opportunity for Prevention? **Heart Rhythm** May 2008.
72. Audrey Uy-Evanado, Kyndaron Reinier, Carmen Socoteanu, Ronald Mariani and Chugh SS. QTc Prolongation Predicts Sudden Death in Patients with Coronary Disease: What are the Causes? **Heart Rhythm** May 2008.
73. Reinier K, Chugh SS, Thomas E, Rea T, Emerson S, Aufderheide T, Callaway C, Idris A, Stiell I. Socioeconomic disparities in sudden cardiac arrest incidence: Analysis of US metropolitan areas within the Resuscitation Outcomes Consortium. **Circulation** Nov 2008.
74. Gregory A. Nichols, PhD, Kyndaron Reinier, PhD, Philip Barnett, MD and Chugh SS, MD. Kaiser Permanente Center for Health Research, Portland, OR, Cedars-Sinai Medical Center, Los Angeles, CA. Prevalence and Incidence of Atrial Fibrillation among Patients with and without Diabetes: Confluence of Two Epidemics? **Heart Rhythm** May 2009
75. Chugh SS, Arking DE, Reinier K, Post W, Hilton G, Prineas RJ, Boerwinkle E, Psaty BM, Tomaselli G, Rea T, Sotoodehnia N, Siscovick DS, Burke GL, Marban E, Spooner PM, Chakravarti A. Genome-Wide Association Study Identifies GPC5 as a Novel Genetic Locus Protective Against Sudden Cardiac Arrest. **Heart Rhythm** May 2009
76. Chugh SS, Shawn K. Westaway, Kyndaron Reinier, Audrey Evanado, Jo Navarro, Moritz F. Sinner, Karen Gunson, Jonathan Jui, Peter Spooner, Stefan Käab. Oregon Health & Science University, Portland, OR; Johns Hopkins University, Boston, MA; Cedars-Sinai Medical Center, Los Angeles; Oregon Health and Science University, CA Ludwig-Maximilians-University, Munich, Germany; Johns Hopkins University. Glycerol-3-Phosphate Dehydrogenase 1-Like gene (GPD1L) is Associated with Increased Risk of Sudden Cardiac Arrest in Patients with Coronary Artery Disease. **Heart Rhythm** May 2009
77. Kyndaron Reinier, Audrey Uy-Evanado, Carmen Teodorescu, Ronald Mariani, Mershed Samara, Karen Gunson, Jonathan Jui, Philip Barnett, Chugh SS. Prevalence of Diabetes among Cases of Sudden Cardiac Arrest: The Oregon Sudden Unexpected Death Study (Ore-SUDS). **Heart Rhythm** May 2009
78. Kyndaron Reinier, Audrey Uy-Evanado, Carmen Teodorescu, Ronald Mariani, Mershed Samara, Karen Gunson, Jonathan Jui, Chugh SS. Prior Detection of Significant Coronary Artery Disease is a Predictor of Survival from Sudden Cardiac Arrest. **Heart Rhythm** May 2009
79. Audrey Uy-Evanado, Carmen Teodorescu, Kyndaron Reinier, Ronald Mariani, Karen Gunson, Jonathan Jui, Chugh SS. Beyond the Ejection Fraction: Prolonged QTc Interval Predicts Risk

of Sudden Cardiac Arrest in the Absence of Severe LV Dysfunction. **Heart Rhythm** May 2009

80. Audrey Uy-Evanado, Carmen Teodorescu, Kyndaron Reinier, Ronald Mariani, Karen Gunson, Jonathan Jui, Chugh SS. Left Ventricular Hypertrophy and Sudden Cardiac Arrest in the General Population: Identification of the High Risk Patient Using 12-lead EKG Intervals. **Heart Rhythm** May 2009
81. Carmen Teodorescu, Audrey Uy-Evanado, Kyndaron Reinier, Ronald Mariani, Karen Gunson, Jonathan Jui, Chugh SS. Rising Prevalence of PEA and Decrease in Ventricular Fibrillation: What is the Cause of this Shift? **Heart Rhythm** May 2009
82. Carmen Teodorescu, Audrey Uy-Evanado, Kyndaron Reinier, Ronald Mariani, Karen Gunson, Jonathan Jui, Chugh SS. Relative Contribution of Prolonged Ventricular Repolarization vs. Depolarization to Risk of Sudden Death in the General Population. **Heart Rhythm** May 2009
83. Chao JY, Connor W, Morris C, Kraemer D, Connor S, Raitt MH, McAnulty JH, Chugh SS. High LDL Levels Predict Ventricular Fibrillation but not Ventricular Tachycardia in Patients with Implantable Defibrillators. **Circulation** 2009;120(28):S650
84. Li D, Reinier K, Uy-Evanado A, Teodorescu C, Mariani R, Gunson K, Jui J, Chugh SS. Beta-adrenergic agonists and sudden death in coronary artery disease. **Circulation** 2009;120(28):S417
85. Left ventricular diastolic dysfunction and risk of sudden death in the general population. Uy-Evanado A, Teodorescu C, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. **Circulation** 2009;120(28):S418
86. Racial disparities in manifestation and outcome of sudden cardiac arrest. Teodorescu C, Evanado A, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. **Circulation** 2009;120(28):S669
87. Ischemia, left ventricular depolarization and sudden death. Evanado A, Teodorescu C, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. **Circulation** 2009;120(28):S679
88. Role of specific medications as determinants of pulseless electrical activity. Teodorescu C, Evanado A, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. **Circulation** 2009;120(28):S1445
89. Beneficial effects of female gender on survival from sudden cardiac arrest. Teodorescu C, Evanado A, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. **Circulation** 2009;120(28):S1473
90. Wen Huang, Tong Liu, Michael Shehata, Kuijun Zhang, Guodong Niu, Chugh SS, Xunzhang Wang. What does it mean to be Normal? Inducibility of AF in the Absence of AF. **Heart Rhythm** May 2010
91. Teodorescu C, Reinier K, Uy-Evanado A, Mariani R, Bhargava V, Gunson K, Jui J, Chugh SS. African American Race is an Independent Predictor of Lower Survival from Sudden Cardiac Arrest. **Heart Rhythm** May 2010

92. Reinier K, Chakravarty S, Stecker EC, Uy-Evanado A, Teodorescu C, Mariani R, Gunson K, Jui J, Chugh SS. MADIT II Risk Score Evaluated Among Patients with Sudden Cardiac Arrest in the General Population. **Heart Rhythm** May 2010
93. Reinier K, Li D, Uy-Evanado A, Teodorescu C, Mariani R, Gunson K, Jui J, Chugh SS. Type of Beta2-adrenergic agonists and sudden death in coronary artery disease. **Heart Rhythm** May 2010
94. David Singh, Ximin Li, Melissa Pickett, Sean Hirota, Nancy Terry, Richard F. Gillum, Zhi-Jie Zheng, Emelia J. Benjamin, George A. Mensah, Chugh SS. Preliminary Report of the Global and Regional Epidemiology of Atrial Fibrillation. **Circulation** June 2010
95. George Mensah, Majid Ezzati, Laurie Anderson, Jonathan Carapetis, Chugh SS, Michael Criqui, Valery Feigin, Gerry Fowkes, Moran Andrew, Imad Tleyjeh. The Global Burden of Cardiovascular Disease: Methodology for a comprehensive reassessment of disease burden and trends in 21 world regions for 1990 – 2005. **Circulation** June 2010
96. Kyndaron Reinier, Audrey Uy-Evanado, Carmen Teodorescu, Harpriya Chugh, Ronald Mariani, Karen Gunson, Jonathan Jui, and Chugh SS. Predictors of Sudden Cardiac Arrest with Preserved Left Ventricular Systolic Function. **Circulation** November 2010
97. Tong Liu, Michael Shehata, Xunzhang Wong, and Chugh SS. Racial Differences In Early Repolarization Pattern from 82,050 Consecutive Subjects with Otherwise Normal Electrocardiogram. **Circulation** November 2010
98. Carmen Teodorescu, Kyndaron Reinier, Celia Dervan, Audrey Uy-Evanado, Mershed Samara, Harpriya Chugh, Ronald Mariani, Karen Gunson, Jonathan Jui, and Chugh SS. Morphology, Rate and Rhythm of Ventricular Complexes during Primary PEA and their Prognostic Significance. **Circulation** November 2010
99. Kyndaron Reinier, Elizabeth Thomas, Douglas L Andrusiek, Tom P Aufderheide, Steven C Brooks, Thomas D Rea, Clifton Callaway, Paul E Pepe, Robert H Schmicker, Christian Vaillancourt, and Chugh SS. Socioeconomic Disparities and Burden of Sudden Cardiac Arrest in Metropolitan Areas: A USA-Canada Comparative Analysis. **Circulation** November 2010
100. Carmen Teodorescu, Kyndaron Reinier, Audrey Uy-Evanado, Jo Navarro, Harpriya Chugh, Ronald Mariani, Karen Gunson, Jonathan Jui, Xavier Jouven, and Chugh SS. Resting Heart Rate is a Significant Predictor of Sudden Death in the General Population. **Circulation** November 2010
101. Ragesh Panikkath, Kyndaron Reinier, Audrey Uy-Evanado, Carmen Teodorescu, Dong Li, Subhashish Chakravarty, Harpriya Chugh, Ronald Mariani, Karen Gunson, Jonathan Jui, and Chugh SS. T-peak to T-end Interval: A Novel ECG Predictor of Sudden Death in the General Population. **Circulation** November 2010
102. Carmen Teodorescu, Kyndaron Reinier, Celia Dervan, Audrey Uy-Evanado, Mershed Samara, Harpriya Chugh, Ronald Mariani, Karen Gunson, Jonathan Jui, and Chugh SS. Lifetime Clinical History of Syncope is Associated with Future Pulseless Electrical Activity vs. Ventricular Fibrillation. **Circulation** November 2010



103. Connie R Bezzina, Raha Pazoki, Abdennasser Bardai, Roos F Marsman, Jonas S de Jong, Marieke Blom, Brendon P Scicluna, J. Wouter Jukema, Navin R Bindraban, Peter Lichtner, Arne Pfeufer, Nanette H Bishopric, Dan M Roden, Thomas Meitinger, Chugh SS, Robert J Myerburg, Xavier Jouven, Stefan Kääb, Lukas R Dekker, Hanno L Tan, Michael W Tanck, and Arthur A Wilde. Genome-Wide Association Study Identifies a Region at Chr 21q21 as a Susceptibility Locus for Ventricular Fibrillation in Acute Myocardial Infarction. **Circulation** November 2010
104. Zulu Wang, MD, Tong Liu, MD, PhD, Michael M. Shehata, MD, Yanchun Liang, MD, Zhiqing Jin, MD, Ming Liang, MD, Yaling Han, MD, Allen Amorn, MD, Xiushi Liu, MD, Chugh SS, MD, FHRS and Xunzhang Wang, MD. Electrophysiological Characteristics of Focal Atrial Tachycardia Surrounding the Aortic Coronary Cusps. **Heart Rhythm** May 2011; 8(5S):S74
105. Carmen Teodorescu, MD, PhD, Audrey Uy-Evanado, MD, Kyndaron Reinier, PhD, Jo Navarro, BS, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Elevated Resting Heart Rate is Associated with Increased Risk of Sudden Cardiac Arrest Independent of Age, Gender and Beta-blocker Use. **Heart Rhythm** May 2011; 8(5S):S96
106. Audrey U. Evanado, MD, Carmen Teodorescu, MD, PhD, Kyndaron Reinier, PhD, Jo Navarro, BS, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Usefulness of QTc Interval and Other ECG Parameters for Prediction of Sudden Death in Ventricular Paced Rhythms. **Heart Rhythm** May 2011; 8(5S):S96
107. Kyndaron Reinier, PhD, Audrey Uy-Evanado, MD, Carmen Teodorescu, MD, PhD, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Sudden Cardiac Death with Preserved Left Ventricular Systolic Function. **Heart Rhythm** May 2011; 8(5S):S96-S97
108. Eugenio Cingolani, MD, Kristine Yee, DVM, Michael Shehata, MD, Chugh SS, MD, Eduardo Marbán, MD, PhD and Hee Cheol Cho, PhD. Biological Pacemaker Created by Percutaneous Gene Delivery via Venous Catheters in a Porcine Model of Complete Heart Block. **Heart Rhythm** May 2011; 8(5S):S112-S113
109. Kyndaron, Reinier, PhD, Carmen Teodorescu, MD, PhD, Audrey Uy-Evanado, MD, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Higher Plasma Estradiol Levels in Men Associated with Risk of Sudden Death in the Community. **Heart Rhythm** May 2011; 8(5S):S198-S199
110. Michael M. Shehata, MD, Tong Liu, MD, PhD, Jamie Molden, MD, Allen Amorn, MD, Xiushi Liu, MD, Chugh SS, MD, and Xunzhang Wang, MD. Heterogeneity in Atrial Refractoriness Predicts Cavotricuspid Isthmus-Dependent Atrial Flutter During Atrial Fibrillation Ablation. **Heart Rhythm** May 2011; 8(5S):S235
111. Ragesh Pannikkath, MD, Carmen Teodorescu, MD, PhD, Kyndaron Reinier, PhD, Audrey Uy-Evanado, MD, Jo Navarro, BS, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Is Tpeak to Tend Interval, Novel Predictor of Sudden Death More Reliable than the QTc at Extremes of Heart Rate? **Heart Rhythm** May 2011; 8(5S):S302

112. Audrey Uy-Evanado, MD, Kyndaron Reinier, PhD, Carmen Teodorescu, MD, PhD, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD and Chugh SS, MD. Does Atrial Fibrillation Influence Risk of Sudden Death in the Community? **Heart Rhythm** May 2011; 8(5S):S306-S307
113. Megha Agarwal, MD, Sean K. Hirota, MD, Chun-Ying Liu, MS, Ragesh Panikkath, MD, Carmen Teodorescu, MD, PhD, Kyndaron Reinier, PhD, Harpriya Chugh, BS, Phillip Barnett, MD, PhD, Michael Shehata, MD, Xunzhang Wang, MD and Chugh SS, MD. What Causes QT Interval Prolongation in Diabetes? **Heart Rhythm** May 2011; 8(5S):S345-S346
114. Carmen Teodorescu, MD, PhD, Audrey Uy-Evanado, MD, Kyndaron Reinier, PhD, Adrianna Huertas-Vazquez, PhD, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. Elevated HBA1c Levels are Associated with Increased Risk of Sudden Death in the General Population. **Heart Rhythm** May 2011; 8(5S):S346-S347
115. Ragesh Panikkath, MD, Carmen Teodorescu, MD, PhD, Kyndaron Reinier, PhD, Audrey Uy-Evanado, MD, Jo Navarro, BS, Harpriya Chugh, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. When the QT Interval Fails due to Intraventricular Conduction Delay, Prolonged Tpeak-Tend Interval Predicts Risk of Sudden Death. **Heart Rhythm** May 2011; 8(5S):S348
116. Tong Liu, MD, PhD, Allen Amorn, MD, Xunzhang Wang, MD, Chugh SS, MD, and Michael Shehata, MD. Unipolar Electrograms and Contact Force: What have we learned? **Heart Rhythm** May 2011; 8(5S):S400-S401
117. Adrianna Huertas-Vazquez, PhD, Kyndaron Reinier, PhD, Carmen Teodorescu, MD, PhD, Audrey Uy-Evanado, MD, Jo Navarro, BS, Ronald Mariani, BS, Karen Gunson, MD, Jonathan Jui, MD, MPH and Chugh SS, MD. A Missense Variant in the Neuregulin 1 Gene Previously Associated with Schizophrenia is Associated with Sudden Death in the General Population. **Heart Rhythm** May 2011; 8(5S):S392
118. Allen Amorn, MD, Tong Liu, MD, Xunzhang Wang, MD, Chugh SS, MD and Michael Shehata, MD. The Impact of Contact Force on the Accuracy of Automatic Measurement of Unipolar Voltage in Swine Atria. **Heart Rhythm** May 2011; 8(5S):S450
119. Eugenio Cingolani, MD, Michael Shehata, MD, Chugh SS, MD, Eduardo Marban, MD, PhD and Hee Cheol Cho, PhD. Biological Pacing Driven by Stem Cell-Derived Cardiomyocytes: Augmentation of Pacing Efficacy by Hydrogel Matrix. **Heart Rhythm** May 2011; 8(5S):S472-S473
120. Teodorescu C, Reinier K, Uy-Evanado A, Chugh H, Ayala J, Mariani R, Gunson K, Jui J, Chugh SS. Enhancement of Sudden Death Risk Stratification by Resting 12-lead EKG Makers When Combined With LV Ejection Fraction: A Community-based Study. **Circulation** Nov 2011; 2011;124:A16286
121. Teodorescu C, Uy-Evanado A, Reinier K, Chugh H, Ayala J, Mariani R, Gunson K, Jui J, Chugh SS. Once an Implantable Defibrillator, Always an Implantable Defibrillator? **Circulation** Nov 2011; 2011;124:A16465

122. Teodorescu C, Reinier K, Uy-Evanado A, Ayala J, Mariani R, Chugh H, Daya M, Gunson K, Jui J, Chugh SS. Elevated Resting Heart Rate is Associated with Pulseless Electrical Activity Independent of Beta-blocker Use. **Circulation** Nov 2011; 2011;124:A21
123. Panikkath R, Uy-Evanado A, Reinier K, Teodorescu C, Chugh H, Ayala J, Mariani R, Wittwer L, Gunson K, Jui J, Chugh SS. Contribution of the Primary Arrhythmia Syndromes to Sudden Cardiac Arrest in the General Population: Prospective, 8-year Study in a Large US Community. **Circulation** Nov 2011; 2011; 124:A16782
124. Teodorescu C, Uy-Evanado A, Reinier K, Chugh H, Ayala J, Mariani R, Gunson K, Jui J, Chugh SS. African American Race is Significantly Associated with Risk of Sudden Cardiac Death Among Diabetics. **Circulation** Nov 2011; 2011;124:A16019
125. Cingolani E, Yee K, Shehata M, Chugh SS, Marbán E, Cho H. Reducing to practice the concept of a biological pacemaker: efficacy of percutaneous, right-sided gene delivery in the Bundle of His versus open-chest ventricular wall injection in a porcine model of complete heart block. **Circulation** Nov 2011; 2011;21:A14056
126. Teodorescu C, Reinier K, Uy-Evanado A, Mariani R, Gunson K, Jui J, Chugh SS. Combination of specific 12-lead EKG markers enhances sudden death risk beyond the ejection fraction: A Community-based study. **Heart Rhythm** 2012;9(5):S88
127. Teodorescu C, Uy-Evanado A, Reinier K, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Specific markers on resting ECG predict VF vs. non-VF sudden cardiac arrest. **Heart Rhythm** 2012;9(5):S472
128. Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Do improvements in LV ejection fraction alter risk of sudden cardiac arrest? **Heart Rhythm** 2012;9(5):S88
129. Uy-Evanado A, Teodorescu C, Reinier K, Ayala J, Mariani R, Chugh H, Gunson K, Jui J, Chugh SS. Specific morphologies of the prolonged QRS complex are associated with risk of sudden death in the general population. **Heart Rhythm** 2012;9(5):S432
130. Havmoeller R, Uy-Evanado A, Teodorescu C, Reinier K, Stecker E, Ayala J, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Effectiveness of sudden cardiac death primary prevention in the community – even lower than anticipated? **Heart Rhythm** 2012;9(5):S309
131. Havmoeller R, Uy-Evanado A, Teodorescu C, Reinier K, Mariani R, Chugh H, Nichols G, Gunson K, Jui J, Chugh SS. Clinical course and outcome in individuals that suffer multiple sudden out-of-hospital cardiac arrests. **Heart Rhythm** 2012;9(5):S351
132. Reinier K, Uy-Evanado A, Teodorescu C, Stecker E, Havmoeller H, Kwok D, Ahmadi N, Ayala J, Jerger K, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Clinical predictors of sudden death risk in the intermediate ejection fraction group (LV EF 36-49%). **Heart Rhythm** 2012;9(5):S455
133. Kwok D, Havmoeller R, Reinier K, Teodorescu C, Chugh H, Stecker E, Gunson K, Jui J, Chugh SS. The seizure disorder and sudden death overlap: How can we solve this black box? **Heart Rhythm** 2012;9(5):S357

134. Ahmadi N, Reinier K, Uy-Evanado A, Teodorescu C, Havmoeller H, Kwok D, Huertas-Vazquez A, Chugh H, Mariani R, Jui J, Chugh SS. Insulin resistance is associated with sudden cardiac death in both genders (Ore-SUDS prospective community-based study). **Heart Rhythm** 2012;9(5):S384
135. Ahmadi N, Reinier K, Uy-Evanado A, Teodorescu C, Havmoeller H, Kwok D, Huertas-Vazquez A, Chugh H, Mariani R, Jui J, Chugh SS. Sleep apnea is associated with sudden cardiac death in obese individuals: a population-based study. **Heart Rhythm** 2012;9(5):S455
136. Huertas-Vazquez A, Reinier K, Uy-Evanado A, Teodorescu C, Ayala J, Jerger K, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Community declared ethnicity vs. ancestry marker genetic analysis in a population-based study of sudden cardiac arrest. **Heart Rhythm** 2012;9(5):S441
137. Huertas-Vazquez A, Reinier K, Uy-Evanado A, Teodorescu C, Ayala J, Jerger K, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Signal peptide, CUB domain, EGF-like 3 gene (SCUBE3) is a determinant of ventricular fibrillation vs. pulseless electrical activity/asystole. **Heart Rhythm** 2012;9(5):S442
138. Havmoeller R, Kwok D, Jerger K, Ahmadi N, Huertas-Vazquez A, Reinier K, Teodorescu C, Uy-Evanado A, Ayala J, Gunson K, Jui J, Chugh SS. Elevated levels of plasma estradiol are independently associated with risk of sudden death in men. **Heart Rhythm** 2012;9(5):S133
139. Havmoeller R, Kwok D, Jerger K, Ahmadi N, Huertas-Vazquez A, Reinier K, Teodorescu C, Uy-Evanado A, Ayala J, Gunson K, Jui J, Chugh SS. Elevated levels of plasma non-esterified free fatty acids are associated with increased risk even when measured during the acute cardiac arrest event. **Heart Rhythm** 2012;9(5):S142
140. Havmoeller R, Uy-Evanado A, Teodorescu C, Jerger K, Kwok D, Ayala J, Huertas-Vazquez A, Chen I, Reinier K, Gunson K, Jui J, Chugh SS. Abstract 46: Circulating levels of leptin are reduced in patients with sudden cardiac arrest at the time of the event. **Circulation**. 2012;126:A46-
141. Havmoeller R, Uy-Evanado A, Teodorescu C, Jerger K, Kwok D, Ayala J, Huertas-Vazquez A, Chen I, Reinier K, Gunson K, Jui J, Chugh SS. Abstract 202: Elevated plasma levels of interleukin 6 are associated with risk of sudden death in the community even when measured during the acute cardiac arrest event. **Circulation**. 2012;126:A202-
142. Havmoeller R, Uy-Evanado A, Teodorescu C, Jerger K, Kwok D, Ayala J, Huertas-Vazquez A, Chen I, Reinier K, Gunson K, Jui J, Chugh SS. Abstract 13516: Elevated plasma levels of matrix metalloproteinase 9 are associated with sudden cardiac arrest in the general population. **Circulation**. 2012;126:A13516-
143. Huertas-Vazquez A, Nelson CP, Guo X, Reinier K, Uy-Evanado A, Teodorescu C, Ayala J, Jerger K, Chugh H, Braund PS, Hall AS, Balmforth AJ, Jones M, Taylor KD, Pulit S, Newton-Cheh C, Gunson K, Jui J, Rotter JI, Albert CM, Samani NJ, Chugh SS. Abstract 16094: Rab3 gtpase activating protein subunit 1 is a novel candidate gene for sudden cardiac death. **Circulation**. 2012;126:A16094-

144. Reinier K, Teodorescu C, Uy-Evanado A, Chugh H, Mariani R, Ayala J, Jerger K, Nichols G, Gunson K, Jui J, Chugh SS. Abstract 18106: Community-based analysis of sudden cardiac death in young adults age 18-34, in a large us population. **Circulation**. 2012;126:A18106-
145. Stecker E, Reinier K, Teodorescu C, Uy-Evanado A, Havmoeller R, Chugh H, Gunson K, Jui J, Chugh SS. Abstract 16081: What is the societal impact of sudden cardiac death in the united states? **Circulation**. 2012;126:A16081-
146. Stecker E, Teodorescu C, Uy-Evanado A, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Abstract 16078: Sudden cardiac arrest in patients with epilepsy: How often is it triggered by a seizure? **Circulation**. 2012;126:A16078-
147. Teodorescu C, Reinier K, Uy-Evanado A, Stecker EC, Chugh H, Daya M, Gunson K, Jui J, Chugh SS. Abstract 13458: Lv systolic function in subjects presenting with non-vf/vt sudden cardiac arrest. **Circulation**. 2012;126:A13458-
148. Teodorescu C, Uy-Evanado A, Reinier K, Stecker EC, Daya M, Chugh H, Jui J, Gunson K, Chugh SS. Abstract 14704: Sudden cardiac arrest subjects presenting with shockable versus non-shockable rhythms are not distinguishable on detailed autopsy. **Circulation**. 2012;126:A14704-
149. Uy-Evanado A, Reinier K, Teodorescu C, Nichols GA, Gunson K, Jui J, Chugh SS. Abstract 14811: Psychiatric disorders, drug therapy and risk of scd in the community. **Circulation**. 2012;126:A14811-
150. Uy-Evanado A, Teodorescu C, Reinier K, Havmoeller R, Chugh H, Nichols GA, Gunson K, Jui J, Chugh SS. Abstract 14696: Significant association of valvular heart disease with sudden cardiac death independent of the lv ejection fraction. **Circulation**. 2012;126:A14696-
151. Ahmadi N, Teodorescu C, Uy-Evanado A, Reinier K, Havmoeller R, Kwok D, Huertas-Vazquez A, Chugh H, Gunson K, Jui J, Chugh SS. Abstract 331: Insulin resistance is independently associated with sudden cardiac death in the community. **Circulation**. 2012;126:A331-
152. Havmoller R, Reinier K, Teodorescu C, Uy-Evanado A, Stecker E, Chugh H, Mariani R, Gunson K, Jui J, Chugh SS. Significant incidence of sudden cardiac arrest under 55 with no better survival than older age groups. **Eur Heart J** (2012) 33 (Suppl 1).
153. Huertas-Vazquez A, Reinier K, Teodorescu C, Uy-Evanado A, Chugh H, Ayala J, Jerger K, Gunson K, Jui J, Chugh SS. Genetic Determinants of Survival from Sudden Cardiac Arrest. **Heart Rhythm** 2013; 10(5):S234
154. Teodoescu C, Uy-Evanado A, Reinier K, Ayala J, Mariani R, Gunson K, Jui J, Chugh SS. Mechanisms of Pulseless Electrical Activity versus Ventricular Fibrillation: Do Autopsies Provide Insight? **Heart Rhythm** 2013; 10(5):S177
155. Uy-Evnado A, Teodorescu C, Reinier K, Gunson K, Jui J, Chugh SS. First vs. Second Generation Anti-Psychotic Agents and Increased Risk of Sudden Cardiac Death. **Heart Rhythm** 2013; 10(5):S234

156. Narayanan K, Reinier K, Teodorescu C, Uy-Evanado A, Chugh H, Gunson K, Jui J, Chugh SS. Increased Myocardial Voltage with Anatomic Hypertrophy in Cases of Sudden Cardiac Death. **Heart Rhythm** 2013; 10(5):S43
157. Narayanan K, Havmoeller R, Reinier K, Jerger K, Teodorescu C, Uy-Evanado A, Navarro J, Gunson K, Jui J, Chugh SS. Sex Hormone Levels and Risk of Sudden Cardiac Death. **Heart Rhythm** 2013; 10(5):S39
158. Thajudeen A, Wang X, Stewart B, Dharmakumar R, Nakagawa H, Shehata M, Amorn A, Cokic I, Kali A, Liu E, Harlev D, Bennett N, Chugh SS, Jackman W. Correlation of Low Voltage Area, Isolated Late Potentials and Infarct Scar (Identified by Delayed Contrast Enhanced MRI) Using a New Ultra High Resolution Mapping System in a Chronic Infarct Model. **Heart Rhythm** 2013; 10(5):S419.
159. Teodorescu C, Reinier K, Uy-Evanado A, Mariani R, Chugh H, Gunson K, Jui J, Chugh SS. Interaction between lung disease and anti-psychotic drugs in pulseless electrical activity. **Circulation** 2013;128:A218.
160. Teodorescu C, Reinier K, Uy-Evanado A, Mariani R, Gunson K, Jui J, Chugh SS. Menopause and pulseless electrical activity. **Circulation** 2013;128:A117.
161. Teodorescu C, Uy-Evanado A, Reinier K, Mariani R, Gunson K, Jui J, Chugh SS. Sudden cardiac arrest manifesting with shockable vs. non-shockable rhythms. **Circulation** 2013;128:A14914.
162. Marijon E, Teodorescu C, Dumas F, Reinier K, Mustafic H, Uy-Evanado A, Narayanan K, Bougouin W, Lamhaut L, Jost D, Pochmalicki G, Huertas-Vazquez A, Stecker E, Jerger K, Chugh H, Gunson K, Jui J, Celermajer DS, Jouven X, Chugh SS. Survival from sudden cardiac arrest in women compared to men. **Circulation** 2013;128:A18692.
163. Uy-Evanado A, Reinier K, Teodorescu C, Marijon E, Narayanan K, Chugh H, Nichols GA, Gunson K, Jui J, Chugh SS. Conundrum of sudden death with a psychiatric diagnosis: disease process or culprit drug? **Circulation** 2013;128:A17961.
164. Narayanan K, Reinier K, Teodorescu C, Uy-Evanado A, Chugh H, Nichols GA, Gunson K, Jui J, Chugh SS. Left ventricular diameter adds prognostic value to ejection fraction in risk stratification for sudden cardiac death. **Circulation** 2013;128:A18512.
165. Reinier K, Marijon E, Uy-Evanado A, Teodorescu C, Chugh H, Jerger K, Mariani R, Stecker E, Gunson K, Jui J, Chugh SS. The association between atrial fibrillation and sudden cardiac death is confounded by clinical history of congestive heart failure. **Circulation** 2013;128:A18762.
166. Marijon E, Uy-Evanado A, Teodorescu C, Reinier K, Narayanan K, Huertas-Vazquez A, Jerger K, Mariani R, Stecker E, Chugh H, Navarro J, Jouven X, Gunson K, Jui J, Chugh SS. Burden of sport-related sudden cardiac death in a US community. **Circulation** 2013;128:A16954.
167. Marijon E, Reinier K, Uy-Evanado A, Teodorescu C, Narayanan K, Huertas-Vazquez A, Chugh H, Jerger K, Mariani R, Stecker E, Gunson K, Jui J, Chugh SS. Warning symptoms precede sudden cardiac death in majority of men. **Circulation** 2013;128:A18987.

168. Reinier K, Teodorescu C, Uy-Evanado A, Huertas-Vazquez A, Gunson K, Jui J, Chugh SS. Higher burden of sudden cardiac death in African Americans: a prospective, community-based study. **Circulation** 2013;128:A19039.
169. Teodorescu C, Uy-Evanado A, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Does digoxin increase risk of sudden death in the general population? **Heart Rhythm** 2014;11:PO05-143.
170. Teodorescu C, Reinier K, Uy-Evanado A, Marijon E, Narayanan K, Chugh H, Gunson K, Jui J, Chugh SS. Does overall disease burden explain increased sudden death risk with higher resting heart rate? **Heart Rhythm** 2014; 11:PO04-121.
171. Marijon E, Teodorescu C, Dumas F, Uy-Evanado A, Reinier K, Mustafic H, Narayanan K, Bougouin W, Lamhaut L, Huertas-Vazquez A, Stecker EC, Gunson K, Jui J, Chugh SS. Sudden cardiac arrest – Are women more likely to survive? **Heart Rhythm** 2014; 11:PO05-145.
172. Marijon E, Uy-Evanado A, Teodorescu C, Reinier K, Huertas-Vazquez A, Narayanan K, Jerger K, Mariani R, Stecker EC, Chugh H, Navarro J, Jouven X, Gunson K, Jui J, Chugh SS. Sports-associated sudden cardiac death in middle-aged men: Incidence, characteristics and outcomes. **Heart Rhythm** 2014; 11:PO05-144.
173. Narayanan K, Zhang L, Kim C, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Zheng Z-J, Jui J, Chugh SS. QRS fragmentation identifies subgroup of heart failure patients at risk of sudden cardiac death. **Heart Rhythm** 2014; 11:AB32-06.
174. Narayanan K, Zhang L, Kim C, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Zheng Z-J, Jui J, Chugh SS. QRS fragmentation and sudden death in the community. **Heart Rhythm** 2014; 11:PO06-96.
175. Myung G, Forbess LJ, Ishimori ML, Chugh SS, Wallace DJ, Weisman MH. "Prevalence of Cardiac Arrhythmias in Systemic Lupus Erythematosus." *Arthritis&Rheumatology*. 2014 Nov; 66(11): s476.
176. Dharmakumar R, et al. Malignant Ventricular Arrhythmias in Patients with Chronic Myocardial Infarction and Predictive Value of Iron-Sensitive Cardiac Magnetic Resonance Imaging. SCMR / EuroCMR Joint Scientific Sessions, February 4-7, 2015, Nice, France.
177. Stecker E, Uy-Evanado A, Reinier K, Teodorescu C, Gunson K, Jui J, Chugh SS. "Bystander CPR May Not Improve Survival from Cardiac Arrest in Patients with Epilepsy". **Circulation** 2014; 130:A243.
178. Uy-Evanado, Teodorescu C, Reinier K, Marijon E, Narayana K, Chugh H, Gunson K, Jui J, Chugh SS. "Phosphorus Level, Renal Dysfunction and Sudden Cardiac Death". **Circulation** 2014; 130:A13334.

179. Teodorescu C, Reinier K, Uy-Evanado A, Mariani S, Mariani R, Chugh H, Gunson K, Jui J, Chugh SS. Survival from sudden cardiac arrest in the hemodialysis setting. **Circulation** 2014;130:A13512.
180. Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Sudden cardiac death in current vs. former smokers. **Circulation** 2014;130:A14964.
181. Uy-Evanado A, Teodorescu C, Reinier K, Narayanan K, Chugh H, Gunson K, Jui J, Chugh SS. Non-specific intraventricular conduction delay and risk of sudden death. **Circulation** 2014;130:A13286.
182. Reinier K, Uy-Evanado A, Teodorescu C, Huertas-Vazquez A, Ayala J, Jui J, Gunson K, Chugh SS. Higher burden of sudden death in African American vs. Whites: a postmortem evaluation. **Circulation** 2014;130:A14973.
183. Reinier K, Uy-Evanado A, Teodorescu C, Marijon E, Narayanan K, Gunson K, Jui J, Chugh SS. Sudden death in patients with heart failure and preserved ejection fraction. **Circulation** 2014;130:A14990.
184. Marijon E, Uy-Evanado A, Reinier K, Teodorescu C, Narayanan K, Gunson K, Jui J, Chugh SS. Warning symptoms prior to sudden cardiac arrest: spotlight on sub-acute prevention. **Circulation** 2014;130:A17123.
185. Tang S, Marijon E, Lou A, Chugh H, Mariani R, Uy-Evanado A, Teodorescu C, Reinier K, Jui J, Chugh SS. Electrical features associated with the occurrence of ventricular fibrillation in STEMI patients. **Circulation** 2014;130:A16174.
186. Huertas-Vazquez A, Nelson CP, Sinsheimer JS, Reinier K, Uy-Evanado A, Teodorescu C, Marijon E, Narayanan K, Chugh H, Gunson K, Jui J, Chugh SS. Toward development of a genetic risk score for sudden cardiac death. **Circulation** 2014;130:A15963.
187. Marion E, Uy-Evanado A, Dumas Flornce, Teodorescu C, Reinier K, Narayana K, Bougouin W, Lamhaut L, Jost D, Pochmalicki G, Gunson K, Jui J, Celermajer, Jouven X, Chugh SS. Sports-Related Cardiac Arrest: Comparison of Survival Outcomes in Europe versus the United States. **Circulation** 2014; 130-A17127.
188. Zhang L, Narayanan K, Chugh H, Takahiro S, Zheng Z, Chugh SS. How the Overall Health Status and Insurance Influence Utilization of the Primary Prevention Implantable Defibrillator in the Current Era. **Circulation** 2014; 130:A15534.
189. Uy-Evanado A, Teodorescu C, Reinier K, Narayana K, Chugh H, Gunson K, Jui J, Chugh SS. Serum Phosphorus and Sudden Death in End Stage Renal Disease. **Heart Rhythm** 2015; 12: PO01-108.
190. Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Coronary Lesions Associated with Ventricular Fibrillation versus Acute Coronary Syndrome. **Heart Rhythm** 2015; 12:PO01-104.



191. Phan D, Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Nichols G, Gunson K, Jui J, Chugh SS. T-Wave Reversal in the Orphan Lead (AVR) is Associated with Sudden Death. **Heart Rhythm** 2015; 12: PO01-86.
192. Chua KC, Teodorescu C, Uy-Evanado A, Reinier K, Narayanan K, Chugh H, Gunson K, Jui J, Chugh SS. Wide QRS-T Angle on the 12-lead ECG as a Predictor of Sudden Death Beyond the LV Ejection Fraction. **Circulation** 2015;132:A16416.
193. Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Gunson K, Jui J, Chugh SS. Markers of Diabetes and Renal Function Extend Sudden Death Risk Assessment Beyond the Ejection Fraction. **Circulation** 2015;132:A16457.
194. Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Coronary Dominance and Risk of Ventricular Fibrillation in Coronary Artery Disease. **Circulation** 2015;132:A14713.
195. Darouian N, Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Delayed R-Wave Peak Time on the 12-lead ECG is Associated With Increased Risk of Sudden Death. **Circulation** 2015;132:A14767.
196. Narayanan K, Darouian N, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Gunson K, Jui J, Chugh SS. Electrical versus Anatomic Left Ventricular Hypertrophy Associated With Sudden Death. **Circulation** 2015;132:A15714.
197. Huertas-Vazquez A, Xu B, Reinier K, Teodorescu C, Uy-Evanado A, Narayanan K, Gunson K, Jui J, Hong T, Shaw RM, Chugh SS. Functional Effects of a Missense Common Variant in Neuregulin-1 Associated With Low Ejection Fraction and Sudden Cardiac Death. **Circulation** 2015;132:A18006.
198. Chua KC, Uy-Evanado A, Teodorescu C, Reinier K, Chugh H, Narayanan K, Gunson K, Jui J, Chugh SS. Tpeak-to-tend Interval Corrected for Heart Rate: A More Precise Measure of Increased Sudden Death Risk? **Circulation** 2015;132:A16587.
199. Teodorescu C, Reinier K, Uy-Evanado A, Mariani R, Gunson K, Jui J, Chugh SS. Pulseless Electrical Activity in Middle Age: Is There a Connection to Obesity? **Circulation** 2015;132:A17732.
200. Stecker EC, Chua K, Uy-Evanado A, Teodorescu C, Reinier K, Gunson K, Jui J, Chugh SS. Some Epilepsy Patients Die Suddenly Without a Preceding Seizure Episode: What are the Mechanisms? **Circulation** 2015;132:A17733.
201. Uy-Evanado A, Teodorescu C, Reinier K, Narayanan N, Chugh H, Gunson K, Jui J, Chugh SS. Electrolyte Abnormalities and Risk of Sudden Death in the General Population. **Circulation** 2015;132:A12142.

202. Teodorescu C, Reinier K, Mariani R, Uy-Evanado A, Stecker EC, Gunson K, Jui J, Chugh SS. Population Burden of Shockable vs. Non-Shockable Sudden Cardiac Arrest. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO01-112.
203. Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Sudden Cardiac Death with Preserved Left Ventricular Ejection Fraction: Role of Heart Failure vs. Other Mechanisms. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO01-117.
204. Sandeep R, Nair S, Reinier K, Uy-Evanado A, Teodorescu C, Chugh H, Gunson K, Jui J, Chugh SS. Sudden Cardiac Arrest during Sports Activity in Children and Young adults: A Community-wide Study. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO01-121.
205. Nair S, Reinier K, Stecker EC, Uy-Evanado A, Aro A, Teodorescu C, Gunson K, Jui J, Chugh SS. Correlation of LV Mass Measurement between Echocardiography and Autopsy in Sudden Cardiac Death: Implications for Risk Stratification. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO01-122.
206. Stecker EC, Reinier K, Teodorescu C, Uy-Evanado A, Nichols GA, Gunson K, Jui J, Chugh SS. Assessing the Maximum Potential Benefit from ICD-based Prevention of Sudden Cardiac Arrest. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO03-204.
207. Teodorescu C, Chugh H, Ayala J, Uy-Evanado A, Reinier K, Stecker EC, Gunson K, Jui J, Chugh SS. Disappearance of the Typical Morning Peak in Sudden Cardiac Arrest: A New Normal? **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO03-205.
208. Sandeep R, Nair S, Reinier K, Uy-Evanado A, Teodorescu C, Chugh H, Gunson K, Jui J, Chugh SS. Survival from Sports-Related Sudden Cardiac Arrest in the Young: Can We Do Better? **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO03-212.
209. Phan D, Aro A, Reinier K, Teodorescu C, Uy-Evanado A, Gunson K, Jui J, Chugh SS. Eccentric Hypertrophy Predicts Sudden Cardiac Death in Subjects with Reduced Left Ventricular Function. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: AB38.
210. Aro A, Reinier K, Phan D, Uy-Evanado A, Teodorescu C, Gunson K, Jui J, Chugh SS. Left Ventricular Geometry and Sudden Cardiac Death with Preserved Left Ventricular Ejection Fraction. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO05-189.
211. Aro A, Teodorescu C, Uy-Evanado A, Reinier K, Phan D, Gunson K, Jui J, Chugh SS. Syncope is Associated with Sudden Cardiac Death in the General Population Irrespective of Left Ventricular Function. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO05-217.
212. Nair S, Mori H, Reinier K, Kolodgie F, Virmani R, Chugh SS. Sudden Cardiac Death with Preserved vs. Remodeled Heart: A Post-Mortem Evaluation. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO06-190.

213. Darouian N, Aro A, Narayanan K, Uy-Evanado A, Teodorescu C, Reinier K, Gunson K, Jui J, Chugh SS. Utility of the Romhilt-Estes ECG Score for Prediction of Sudden Cardiac Arrest. **Heart Rhythm**, Volume 13, Issue 5, S1-S688: PO06-197.

## RESEARCH MENTEES/POST-DOCTORAL FELLOWS

1. Benjamin John, MD: 1999-2006; Resident, Internal Medicine Program, Oregon Health & Science University (Presently Staff Cardiologist, Vancouver Clinic, Vancouver, WA). *Recipient, American Heart Association New Investigator Award July 2004.*
2. Eric Stecker, MD: 2001-2007; Resident, Internal Medicine Program, Oregon Health & Science University (Presently Associate Professor, Cardiovascular Medicine, Oregon Health & Science University, Portland, OR). *American College of Cardiology Young Investigator Award March 2005.*
3. Vivek Dogra, MD: August 2001 to September 2003; Research Fellow, Cardiac Electrophysiology (Presently Director, Somnique Health, Portland OR)
4. Balaji Tamarappoo, MD, PhD: August 2002 to 2007; Presently Associate Medical Director, Biomedical Imaging Research Institute, S. Mark Taper Foundation Imaging Center and Cardiologist, Cedars-Sinai Heart Institute, Los Angeles, CA.
5. Carmen Socoteanu: June 2004 to 2007; Presently Staff Physician, Bucharest, Rumania.
6. Celia Dervan, MD: April 2004 to 2008; Presently faculty cardiologist, The Vancouver Clinic, Vancouver, WA.
7. Stacey Clegg MD, 2008, Trainee, Oregon Health and Science University, Portland OR, (Presently Assistant Professor at University of New Mexico Cardiac Catheterization Center, Albuquerque, NM.
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10. Carmen Teodorescu Rusinaru, MD, PhD: October 2007- 2011 (Post-doctoral fellow). Currently Faculty Research Scientist in Medicine, Heart Institute, Cedars-Sinai, Los Angeles, CA.
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15. Eloi Marijon, MD, PhD: November 2012 – June 2014 (Visiting Faculty Scientist), Associate Professor at Paris Descartes University, Associate Professor in Electrophysiology at European Georges Pompidou Hospital Paris Cardiology, Paris, France.
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