CARDIA: Cardiac Arrhythmias, Sudden Death, Inherited Disease, Athletes

June 10-11, 2016
Silverado Resort and Spa
Napa, California

A Continuing Medical Education Conference Presented by the Department of Cardiovascular Medicine at the Stanford University School of Medicine.
Sponsored by the Stanford University School of Medicine and the Stanford Center for Inherited Cardiovascular Disease

Stanford Medicine

Stanford Center for Inherited Cardiovascular Disease
Welcome to CARDIA 2016! We invite you to join us in these beautiful surroundings to learn about Athletes, Inherited Cardiovascular Disease, and Sudden Death. We have lined up an exciting program of national and international speakers, all of whom will focus on the latest findings in the field. We have debates and special guests and breakout sessions – something for everyone. We hope you will find time at the breaks to make new acquaintances and continue your learning. I look forward to meeting you!

Sincerely,
Euan Ashley MRCP, DPhil
Associate Professor
Stanford University

Faculty

Course Director
Euan Ashley, MRCP, DPhil, FACC (Course Director)
Associate Professor of Medicine (Cardiovascular),
of Genetics Director, SCICD

Stanford Faculty
Carlos Bustamante, PhD
Professor of Biomedical Data Science and Genetics
Colleen Caleshu, MS, LGCC (Planner)
Lead Genetic Counselor, SCICD, Clinical Assistant Professor (Affiliated), Department of Pediatrics, Division of Medical Genetics
Scott R. Ceresnak, MD
Assistant Professor of Pediatrics (Cardiology)
Anne M. Dubin, MD (Planner)
Professor of Pediatrics (Pediatric Cardiology)
Kyla Dunn, MS, LGCC
Cardiovascular Genetic Counselor
Victor Froelicher, MD
Professor of Medicine (Cardiovascular) Palo Alto VA, Emeritus
Beth D. Kaufman, MD (Planner)
Clinical Associate Professor (Pediatric Cardiology)
Joshua W. Knowles, MD, PhD (Planner, Reviewer)
Assistant Professor (Cardiovascular Medicine)
David Liang, MD, PhD
Associate Professor of Medicine (Cardiovascular Medicine)
C. Mikael Mattsson, PhD
Visiting Assistant Professor (Cardiovascular Medicine)
Jonathan Myers, PhD
Clinical Professor (Cardiovascular), Palo Alto VAHCS
Mitchel Pariani, MS, LGCC (Planner)
Genetic Counselor, SCICD, Clinical Assistant Professor (Affiliated), Department of Pediatrics, Division of Medical Genetics
Marco Perez, MD (Planner)
Assistant Professor of Medicine (Cardiovascular Medicine)
James Priest, MD
Instructor (Pediatric Cardiology)
Heidi Salisbury RN, MSN, CNS (Planner)
Lead Nurse for the Stanford Center for Inherited Cardiovascular Disease

Lauren Mikula Schneider, PsyD
Clinical Assistant Professor
Child and Adolescent Psychiatry
Stanford University School of Medicine
Lucie Packard Children's Hospital

Matthew Wheeler, MD, PhD (Planner)
Instructor of Medicine (Cardiovascular Medicine)

Paul J. Wang, MD
Professor of Medicine (Cardiovascular Medicine) and Bioengineering

Guest Faculty
Isaiah Austin
Author, NBA Ambassador, and Philanthropist
Claude Bouchard, PhD
John W Barton Chair in Genetics and Nutrition, Pennington Biomedical Research Center, LSU System, Baton Rouge, Louisiana
Sharlene M. Day, MD
Associate Professor of Internal Medicine (Cardiology) Director, Program for Inherited Cardiomyopathies University of Michigan
Emil deGoma, MD
Assistant Professor of Medicine, Medical Director, Preventive Cardiovascular Program, Penn Medicine, University of Pennsylvania

Frederick Dewey, MD
Director, Translational Genetics, Regeneron Genetics Center

Ray Hershberger, MD
Professor of Internal Medicine, Human Genetics and Cardiovascular Medicine Director, Division on Human Genetics, The Ohio State University Wexner Medical Center

Carolyn Ho, MD
Associate Professor of Medicine, Harvard Medical School, Medical Director of the Cardiovascular Genetics Center, Brigham and Women’s Hospital

Jodie Ingles, PhD, MPH
Senior Lecturer, Sydney Medical School, University of Sydney, Research Officer, Molecular Cardiology Program, Centenary Institute, Cardiac Genetic Counsellor, Royal Prince Alfred Hospital

Calum MacRae, MD
Associate Professor and Chief, Cardiovascular Medicine, Harvard Medical School, Brigham and Women’s Hospital

Mary Malloy, MD
Professor of Medicine and Pediatrics
Co-Director, Genomic Resource in Cardiovascular and Metabolic Disease, Cardiovascular Research Institute, University of CA at San Francisco

Chris Sensarrian, MBBS, PhD, MPH
Professor of Medicine, University of Sydney Head, Molecular Cardiology Program, Centenary Institute, Cardiologist, Royal Prince Alfred Hospital

Nathan Stitziel, MD, PhD
Assistant Professor of Medicine and Genetics (Cardiovascular Division) Washington University School of Medicine, Director, Center for Cardiovascular Genetics

Katherine Wilemon
CEO, President and Founder at the Familial Hypercholesterolemia (FH) Foundation

Faculty Disclosure
The Stanford University School of Medicine adheres to ACCME Essential Areas, Standards, and Policies regarding industry support of continuing medical education. Disclosure of faculty and commercial relationships will be made prior to the activity.

Featured Session
Fireside Chat: Reaching for the Stars
An interview with Isaiah Austin,
2014 NBA 1st Round Top Draft Pick;
Living with Marfan Syndrome
## Program (subject to change)

### Friday, June 10, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>8:00–9:00</td>
<td><strong>Keynote: Towards Precision Medicine</strong></td>
<td>Euan Ashley, MRCP, DPhil, FACC</td>
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<tr>
<td>9:00–9:20</td>
<td><strong>Exercise, Fitness, Super-Humans and the Elite Study</strong></td>
<td>C. Mikael Mattsson, PhD</td>
</tr>
<tr>
<td>9:20–9:40</td>
<td><strong>Exercise and Inherited Disease</strong></td>
<td>Sharlene M. Day, MD</td>
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<tr>
<td>9:40–10:00</td>
<td><strong>Innovation in Exercise Science</strong></td>
<td>Claude Bouchard, PhD</td>
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<tr>
<td>10:00–10:15</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:15–11:00</td>
<td><strong>Panel Debate: Pre-participation Screening</strong></td>
<td>Sharlene M. Day, MD; Matthew Wheeler, MD, PhD; Anne M. Dubin, MD</td>
</tr>
<tr>
<td>11:00–12:00</td>
<td><strong>Keynote: The Genetics of Human Populations and Their Companions: Wine, Dogs and Chocolate</strong></td>
<td>Carlos Bustamante, PhD</td>
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<tr>
<td>12:00–1:00</td>
<td><strong>Lunch</strong></td>
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**Moderators:** Jonathan Myers, PhD; Heidi Salisbury, RN, MSN, CNS

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<tr>
<td>8:00–8:45</td>
<td><strong>Breakfast Speaker: Insights into Inherited Cardiovascular Disease From Large Scale Population Sequencing</strong></td>
<td>Frederick Dewey, MD; Note: Optional no CME will be given for this session.</td>
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<tr>
<td>8:45–9:00</td>
<td><strong>Break</strong></td>
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<tr>
<td>9:00–9:20</td>
<td><strong>New Insights Into Early Repolarization, Long QT and Atrial Fibrillation</strong></td>
<td>Marco Perez, MD</td>
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<tr>
<td>9:20–9:40</td>
<td><strong>Electrophysiology in Arrhythmogenic Right Ventricular Cardiomyopathy</strong></td>
<td>Anne M. Dubin, MD</td>
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<tr>
<td>9:40–10:00</td>
<td><strong>Sudden Death in Inherited Cardiovascular Disease and Epilepsy</strong></td>
<td>Chris Semsarian, MBBS, PhD</td>
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<tr>
<td>10:00–10:10</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:10–10:30</td>
<td><strong>Psychological Care for Patients with Inherited Arrhythmias, ICDs &amp; Sudden Death</strong></td>
<td>Lauren Mikula Schneider, PsyD</td>
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<tr>
<td>10:30–11:00</td>
<td><strong>Panel Discussion</strong></td>
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<td>11:00–12:00</td>
<td><strong>Fireside Chat: Reaching for the Stars</strong></td>
<td>Isaiah Austin 2014 NBA 1st Round Top Draft Pick, Living with Marfan Syndrome; David Liang, MD, PhD</td>
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**Moderators:** Beth D. Kaufman, MD; Matthew Wheeler, MD, PhD

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<tr>
<td>1:00–1:20</td>
<td><strong>Hypertrophic Cardiomyopathy – One Disease or Many? Insights From Large Scale Collaboration</strong></td>
<td>Carolyn Ho, MD</td>
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<tr>
<td>1:20–1:40</td>
<td><strong>Our Evolving Understanding of Arrhythmogenic Right Ventricular Cardiomyopathy</strong></td>
<td>Calum MacRae, MD</td>
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<tr>
<td>1:40–2:00</td>
<td><strong>Genetic Testing and Preclinical Disease in Hypertrophic Cardiomyopathy</strong></td>
<td>Jodie Ingles, PhD, MPH</td>
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<tr>
<td>2:00–2:20</td>
<td><strong>New Mechanisms in Dilated Cardiomyopathy</strong></td>
<td>Ray Hershberger, MD</td>
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<tr>
<td>2:20–3:00</td>
<td><strong>Panel Discussion</strong></td>
<td>Carolyn Ho, MD; Calum MacRae, MD; Jodie Ingles, PhD, MPH; Ray Hershberger, MD</td>
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<tr>
<td>3:00–3:30</td>
<td><strong>Break</strong></td>
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**Moderators:** Joshua Knowles, MD, PhD, James Priest, MD

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<td><strong>Mendelian Causes of Early Onset Coronary Artery Disease</strong></td>
<td>Nathan Stitziel, MD</td>
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<tr>
<td>1:20–1:40</td>
<td><strong>Quantifying FH: The CASCADE Registry</strong></td>
<td>Emil deGoma, MD</td>
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<tr>
<td>1:40–2:00</td>
<td><strong>Targeting PCSK9: New Drugs for FH</strong></td>
<td>Joshua Knowles, MD</td>
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<tr>
<td>2:00–2:20</td>
<td><strong>Pediatric Hyperlipidemia and FH</strong></td>
<td>Mary Malloy, MD</td>
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<tr>
<td>2:20–2:50</td>
<td><strong>Panel Discussion</strong></td>
<td>Nathan Stitziel, MD; Emil deGoma, MD; Mary Malloy, MD; Katherine Wilemon</td>
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<td>2:50–3:20</td>
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**Moderators:** David Liang, MD, PhD; Mitchel Pariani, MS, LCGC

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<tr>
<td>3:30–3:50</td>
<td><strong>Clinical Diagnosis of Marfan and Related Aortopathies</strong></td>
<td>David Liang, MD</td>
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<tr>
<td>3:50–4:10</td>
<td><strong>New Insights into Mechanisms of Congenital Heart Disease</strong></td>
<td>James Priest, MD</td>
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<tr>
<td>4:10–4:30</td>
<td><strong>The Full Spectrum of Connective Tissue Disease</strong></td>
<td>Mitchel Pariani, MS, LCGC</td>
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<tr>
<td>4:30–5:00</td>
<td><strong>Keynote: Genetics – What the Practitioner Needs to Know</strong></td>
<td>Colleen Caleshu, MS, LCGC</td>
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<tr>
<td>5:00–5:30</td>
<td><strong>Panel Discussion</strong></td>
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<td>5:30</td>
<td><strong>Adjourn</strong></td>
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<tr>
<td>6:30</td>
<td><strong>Reception</strong></td>
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<tr>
<td>4:50–4:55</td>
<td><strong>GC Breakout: Challenging Cases</strong></td>
<td>Colleen Caleshu, MS, LCGC; Kyla Dunn, MS LCGC</td>
</tr>
<tr>
<td>4:55–5:20</td>
<td><strong>Nurse Breakout: Challenging Cases</strong></td>
<td>Heidi Salisbury, RN, MSN, CNS</td>
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<tr>
<td>5:20</td>
<td><strong>Adjourn</strong></td>
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<td><strong>Break</strong></td>
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<tr>
<td>5:20</td>
<td><strong>Closing Remarks</strong></td>
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Opportunities for Q&A will be provided at the conclusion of each of each presentation.
Statement of Educational Need
This conference seeks to fulfill the need among clinicians, nurses, and genetic counselors who treat and/or refer patients with cardiac conditions to increase and improve the fund of knowledge as well as procedural skill set for the prevention of sudden death, treatment of inherited cardiovascular disease, and cardiovascular care of the trained athlete. The workshop will utilize lectures, Oxford-style debate, breakout tracks by specialty, interdisciplinary sessions, and case-based learning.

Target Audience
This course is designed for a national audience of cardiologists, electrophysiologists, internists, family practitioners, clinicians, nurses, and genetic counselors who evaluates, treats and/or refers patients with cardiac arrhythmias and inherited cardiac disease.

Learning Objectives
At the conclusion of this activity, participants should be able to:

- Apply new 2015 American heart Association (AHA) adult and European Atherosclerosis Society (EAS) pediatric guidelines for diagnosing and managing patients with:
  - Familial hypercholesterolemia
  - Marfan Syndrome and other aortic disorders
- Apply updated American College of Cardiology Foundation (ACCF) and American Heart Association (AHA) guidelines for:
  - Diagnosing and managing patients with hypertrophic cardiomyopathy
  - Using genetic testing in the diagnosis and management of inherited cardiovascular disease
- Develop a strategy to evaluate and provide preventive treatment for patients and athletes within sports cardiology with conditions known to be associated with sudden cardiac death.

Accreditation
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation
Stanford University School of Medicine designates this live activity for a maximum of 14.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements; as long as the course is certified for AMA PRA Category 1 Credits™ (rn.ca.gov). Nurses will receive a Certificate of Attendance following this activity that may be used for license renewal.

Accepted Method of Payment
Credit Card (Visa and Master Card only) – register online at cme.stanford.edu/cardia. If you prefer to pay by phone or check, please contact the Stanford Center for Continuing Medical Education by phone (650) 497-8554 or by email at stanfordcme@stanford.edu for assistance (note that your registration is not confirmed until payment is received).

Cancellation Policy
Cancellations received prior to May 27, 2016 will be refunded, less a $75 administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu.

Stanford University School of Medicine reserves the right to cancel this program; in the event of cancellation, course fees will be fully refunded.

Conference Location & Contact Information
Silverado Resort and Spa
1600 Atlas Peak Road ∙ Napa, California 94558
Reservations: (800) 532-0500
For driving directions and maps, please visit: silveradoresort.com/directions.

Accommodations
A block of rooms has been reserved at a reduced rate at the Silverado Resort and Spa for conference participants on a first-come, first-served basis and may sell out before May 10, 2016. After this date, reservations will be accepted on a space available basis and at regular resort rates.

- Room reservations should be made directly with the Silverado Resort and Spa for conference participants on a first-come, first-served basis and may sell out before May 10, 2016. After this date, reservations will be accepted on a space available basis and at regular resort rates.

Registration
Please register early – hotel and conference space are limited. Registration fee includes course materials, certificate of attendance, continental breakfast and lunch each day, and a hosted welcome reception on Friday evening. Register online by visiting cme.stanford.edu/cardia.

<table>
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<tr>
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<th>Early Bird Rate</th>
<th>After May 13, 2016</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$495</td>
<td>$595</td>
</tr>
<tr>
<td>Nurses and Allied Health Professionals</td>
<td>$325</td>
<td>$375</td>
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Room reservations should be made directly with the Silverado Resort and Spa and as early as possible. Please mention ‘CARDIA 2016’ to receive the group rate. Please call the hotel directly at (800) 532-0500 or email your room request to SilveradoReservations@SilveradoResort.com.

Visiting Napa and Restaurants
To learn more about the area, please go to visitnapavalley.com.

Contact Information
For questions about the symposium, please contact Yolanda Cervantes, CME Conference Coordinator, at (650) 724-9549 or email ycervant@stanford.edu.

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Palo Alto, CA 94304
(650) 497-8554
stanfordcme@stanford.edu
cme.stanford.edu

Stanford University School of Medicine is fully ADA compliant. If you have needs that require special accommodations, including dietary concerns, please contact ycervant@stanford.edu.

Please register early – hotel and conference space are limited!