PREVENTION OF SUDDEN CARDIAC DEATH IN ATHLETES

Thursday–Friday
November 2–3, 2017

Sheraton Seattle Hotel | 1400 Sixth Avenue | Seattle, WA

Sponsored by UW School of Medicine
Department of Family Medicine
UW Medicine Center for Sports Cardiology
Office of Continuing Medical Education
WHO SHOULD ATTEND
Sports medicine physicians, cardiologists, NCAA and professional team physicians, team cardiology consultants, members of the American Medical Society for Sports Medicine, and physician leaders from heart screening foundations around the world would benefit from attending.

COURSE DESCRIPTION
Sudden cardiac death (SCD) is the leading cause of death in competitive athletes during sports and exercise. The goal of cardiovascular screening is to identify underlying cardiac disorders predisposing a patient to SCD to allow risk reduction through individualized and disease-specific medical management. Electrocardiogram (ECG) screening increases the detection of cardiac disorders at risk for SCD, but requires a physician infrastructure trained in athlete-specific ECG interpretation standards, as well as skilled cardiology resources to conduct proper secondary testing of ECG abnormalities. This conference features world experts in sports cardiology to review physiologic versus pathologic ECG findings in athletes, the evaluation of ECG abnormalities, and disease-specific management in athletes diagnosed with a pathologic cardiac disorder. Conference workshops will examine and apply consensus recommendations from the 2017 International Criteria for ECG Interpretation in Athletes. This conference addresses critical knowledge gaps to improve the cardiovascular care provided to competitive athletes.

ACCREDITATION
Accreditation with Commendation
The University of Washington School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation
The University of Washington School of Medicine designates this live activity for a maximum of 12.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

COURSE OBJECTIVES
Upon completion of this activity, attendees should be able to:

• Apply the latest International Criteria for ECG Interpretation in Athletes into daily practice.
• Distinguish normal variant ECG findings from ECG abnormalities requiring more investigation.
• Outline the secondary evaluation of specific ECG abnormalities.
• Describe the diagnostic criteria and management considerations for cardiac disorders predisposing to SCD such as cardiomyopathies, ion channelopathies, and ventricular pre-excitation.

FEES AND REGISTRATION

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<tr>
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<th>Price</th>
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<tbody>
<tr>
<td>MD/DO/PhD</td>
<td>$325.00</td>
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<tr>
<td>All Other Disciplines</td>
<td>$275.00</td>
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<tr>
<td>Resident/Fellow*</td>
<td>$125.00</td>
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*Resident/Fellow rate applies to MD/DO only and requires written confirmation of current resident/fellow status

The course fee includes catering, electronic instruction materials and transcript of AMA PRA Category 1 Credits™. To enroll, please complete the enclosed registration form and include payment or register online at uwcmoe.org. Allow up to 15 working days to receive your email confirmation of enrollment. If you have not received confirmation prior to your departure for the course, please contact the CME office at 206.543.1050. Continuing Medical Education will not be responsible for expenses incurred by an individual who is not confirmed if space is not available at the course.

PRE-CONFERENCE HEART SCREEN
The Nick of Time Foundation invites participants to join them at a youth heart screening event on Wednesday, November 1, 2017, at Ballard High School from 8:00 a.m. to 4:00 p.m. This is a great opportunity to learn and apply modern standards of ECG interpretation in the screening of high school students and student-athletes. Space is limited - please contact the Nick of Time Foundation to RSVP - sue@nickoftimefoundation.org.
ONLINE ACCESS
Instruction materials will be available online at uwcme.org (for conference registrants only). Materials will be available starting on October 26, 2017, for registrants to print and/or download. A booklet with the conference agenda and pages for note-taking will be provided at the conference. No printed presentation materials will be available.

ATTENDANCE POLICY
Course activities are exclusively reserved for registered attendees. Badges provided at registration are required for entrance into all functions and will be strictly enforced. In consideration of other participants and speakers, please do not bring infants/children into conference sessions.

DIETARY REQUESTS
UW CME considers diverse nutritional preferences and restrictions when planning our complimentary menu. If you have dietary restrictions (i.e. vegan, gluten-free, etc.), please notify us by October 26, 2017 by sending an email to cme@uw.edu.

CANCELLATION POLICY
The Office of Continuing Medical Education must receive written notification of your cancellation by October 19, 2017. A $75.00 processing fee will be deducted from refund requests received by this date. No refunds will be issued following October 19, 2017. The Office of Continuing Medical Education reserves the right to cancel this course twenty (20) days prior to the course date when a minimum enrollment is not met or for other reasons that prevent the University from holding the course. Each registrant will be notified by telephone followed by written notification and a full refund. The University of Washington is not responsible for any other costs incurred such as non-refundable airline tickets or hotel penalties. Contact the CME Office with questions: call 206.543.1050, fax 206.221.4525 or email cme@uw.edu.

SPECIAL SERVICES
Please inform the CME Office ten days in advance of the conference if you will need to utilize lactation services.

Continuing Medical Education at the University of Washington is a self-sustaining unit and does not depend on or receive public monies in support of its educational efforts. Fees for this course are estimated to cover the costs of conducting this course. These costs include salaries, registration and credit, handouts, record keeping, faculty planning and evaluation and may include food, beverages, taxes and gratuities to vendors. The University of Washington reaffirms its policy of equal opportunity regardless of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran in accordance with University policy and applicable federal and state statutes and regulations. The University of Washington is committed to providing access and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the CME office at 206.543.1050 or the Disability Services Office at least ten days in advance.

Disability Services Office:
206.543.6450/Voice • 206.543.6452/TTY • 206.685.7264/Fax • e-mail: dso@uw.edu

HOTEL ACCOMMODATIONS
UW CME has contracted for a special rate at the conference hotel. You must mention “UW Sports Cardiology” to receive this rate. After October 11, 2017, this rate and accommodation may not be available. The University of Washington accepts no further responsibility for lodging.

Sheraton Seattle Hotel | 1400 Sixth Avenue | Seattle, WA
For reservations, call 1.888.627.7056 or 206.621.9000

RESERVE ROOMS ONLINE:
Visit the course listing at uwcme.org for a direct link.
COURSE FACULTY

COURSE CHAIR
Jonathan Drezner, MD  
Director  
UW Medicine Center for Sports Cardiology  
Professor  
Department of Family Medicine  
Sports Medicine Section

PLANNING COMMITTEE
Kimberly Harmon, MD  
Section Head  
Department of Family Medicine  
Sports Medicine Section  
Professor  
Departments of Family Medicine, Orthopedics & Sports Medicine

David Owens, MD  
Director  
Hypertrophic Cardiomyopathy Clinic  
Associate Professor  
Department of Medicine, Division of Cardiology

Jordan Prutkin, MD, MHS  
Associate Professor  
Department of Medicine, Division of Cardiology/Electrophysiology

GUEST FACULTY
Michael Ackerman, MD, PhD  
Professor  
Departments of Medicine, Pharmacology, and Pediatrics  
Mayo Clinic

Joseph Marek, MD  
Clinical Cardiologist  
Advocate Medical Group  
Medical Director  
Young Hearts for Life

Irfan Asif, MD  
Associate Professor  
Department of Family Medicine  
University of South Carolina, Greenville  
School of Medicine

Matthew Martinez, MD  
Associate Chief of Cardiology  
Lehigh Valley Health Network  
Medical Director  
Sports Cardiology and Hypertrophic Cardiomyopathy Program, & Cardiovascular Imaging

Sanjay Sharma, MD, FRCP (U.K), FESC  
Professor of Cardiology & Lead  
Inherited Cardiomyopathies & Sports Cardiology Unit  
St. George’s, University of London

Aaron Baggish, MD  
Director  
Cardiovascular Performance Program  
Division of Cardiology  
Massachusetts General Hospital

COURSE FACULTY

Henry Pelto, MD  
Assistant Professor  
Department of Family Medicine  
Sports Medicine Section

Jack Salerno, MD  
Professor  
Department of Pediatrics  
Associate Chief  
Division of Cardiology  
Director  
Electrophysiology & Pacing Services

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Division of Cardiology  
Director  
Electrophysiology & Pacing Services

UNIVERSITY OF WASHINGTON FACULTY

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Sports Medicine Section

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Department of Pediatrics  
Associate Chief  
Division of Cardiology  
Director  
Electrophysiology & Pacing Services
THURSDAY, NOVEMBER 2, 2017

7:15  Registration and Continental Breakfast

8:00  Welcome | Jonathan Drezner, MD

8:05  **Keynote** | Cardiac Adaptation to Exercise and the Physiologic Limits of the ‘Athlete’s Heart’ | Sanjay Sharma, MD

8:25  Etiology of Sudden Cardiac Death in Competitive Athletes: Update and Remaining Questions | Aaron Baggish, MD

8:45  Incidence of Sudden Cardiac Death in Athletes: Understanding Differential Risk | Kimberly Harmon, MD

9:00  The Evolution of Contemporary ECG Interpretation Standards | Jonathan Drezner, MD

9:15  Question and Answer Session | Faculty

9:30  Screening for Pathologic Cardiac Disorders: The Performance of History, Physical Exam, and ECG | Kimberly Harmon, MD

9:45  International Criteria for ECG Interpretation in Athletes: Overview of Normal ECG Findings | Jonathan Drezner, MD

10:05  Voltage Criteria for LVH and RVH: Physiologic Findings in Athletes | Joseph Marek, MD

10:15  Repolarization Variants in Black Athletes: What We Know and Don’t Know | Sanjay Sharma, MD, FRCP (U.K.), FESC

10:25  Physiologic ECG Variants in the Pediatric Athlete: Heart Rate, Rhythm, and Juvenile T-Wave Pattern | Jack Salerno, MD

10:35  Question and Answer Session | Faculty

10:50  Break

11:10  International Criteria for ECG Interpretation in Athletes: Overview of Abnormal ECG Findings | Jonathan Drezner, MD

11:30  Pathologic T-Wave Inversion and ST Segment Depression | Aaron Baggish, MD

11:45  Diagnostic Evaluation of ECG Abnormalities Suggestive of Hypertrophic Cardiomyopathy | David Owens, MD

12:00  Diagnostic Evaluation of ECG Abnormalities Suggestive of Arrhythmogenic Cardiomyopathy | Jordan Pruikin, MD

12:15  Pathologic Q Waves: New Definition, Implications, and Secondary Testing | David Owens, MD

12:30  Question and Answer Session | Faculty

12:45  Lunch (provided)

1:45  Measuring the QTc: Pearls and Pitfalls | Michael Ackerman, MD, PhD

2:00  Wolff-Parkinson-White: Recognition and Diagnostic Evaluation | Jack Salerno, MD

2:15  Diagnostic Evaluation of a Patient with a Prolonged QTc | Michael Ackerman, MD, PhD

2:30  Premature Ventricular Contractions: When to be Concerned and Which Tests to Evaluate? | Michael Emery, MD

2:45  Isolated Axis Deviation, Atrial Enlargement, or Right Bundle Branch Block: Normal or Abnormal? | Sanjay Sharma, MD, FRCP (U.K.), FESC

3:00  Question and Answer Session | Faculty

3:15  Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Event</th>
<th>Speaker(s)</th>
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</table>
| 3:30  | Breakout Session #1 | Faculty (PLEASE CHOOSE ONE)  
a) Basic ECG Interpretation  
b) Advanced ECG Interpretation  
Sponsored by AMSSM* |
| 4:30  | LV Non-Compaction: Disease or Normal Variant? | Matthew Martinez, MD |
| 4:45  | Genetic Testing for Cardiomyopathy: Clinical Applications in Sports Cardiology | David Owens, MD |
| 5:00  | Case Presentation: Return to Play with Hypertrophic Cardiomyopathy? | Jonathan Drezner, MD |
| 5:10  | Panel Discussion | Faculty |
| 5:30  | Closing Remarks and Adjourn | |

THURSDAY, NOVEMBER 2, 2017 (...CONTINUED)

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<tbody>
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<td>Sign-In and Continental Breakfast</td>
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<tr>
<td>7:40</td>
<td>Welcome</td>
<td>Jonathan Drezner, MD</td>
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<tr>
<td>7:45</td>
<td>Keynote</td>
<td>Athletes with a Genetic Channelopathy: Who Says I Can’t Play Anyway?</td>
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<tr>
<td>8:05</td>
<td>ICDs in Athletes: Indications, Options, and Return to Play Considerations</td>
<td>Jordan Prutkin, MD</td>
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<td>8:25</td>
<td>The Expanding Role of Cardiac MRI in Sports Cardiology</td>
<td>Matthew Martinez, MD</td>
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<td>8:40</td>
<td>False-Positives and True-Positives: Psychological Implications in Athletes</td>
<td>Irfan Asif, MD</td>
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<td>8:55</td>
<td>Question and Answer Session</td>
<td>Faculty</td>
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| 9:10  | Breakout Session #2 | Faculty (PLEASE CHOOSE ONE)  
a) Advanced ECG Interpretation  
b) Challenging Cases in Sports Cardiology  
Sponsored by AMSSM* |
| 10:10 | Break | |
| 10:30 | Keynote | Is Too Much Endurance Exercise Bad for your Heart? | Aaron Baggish, MD |
| 10:50 | Atrial Fibrillation in Athletes | Jordan Prutkin, MD |
| 11:05 | Cardiovascular Risk Assessment in the Middle-Aged Athlete: Defining an Evidence-Based Approach | Michael Emery, MD |
| 11:20 | Question and Answer Session | Faculty |
| 11:35 | Case Presentation: Return to Play After SCA? | Kimberly Harmon, MD |
| 11:45 | Panel Discussion | Faculty |
| 12:05 | Closing Remarks and Adjourn | |

FRIDAY, NOVEMBER 3, 2017

<table>
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<th>Time</th>
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<tr>
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<td>Break</td>
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<tr>
<td>12:05</td>
<td>Closing Remarks and Adjourn</td>
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*ECG interpretation breakout sessions and select lectures are sponsored by educational grants from the American Medical Society for Sports Medicine (AMSSM) and the AMSSM Foundation
Prevention of Sudden Cardiac Death in Athletes
November 2–3, 2017

REGISTRATION

First
MI
Last

Professional Title □ M.D. □ DO □ PhD □ RN □ ARNP □ PA □ Other:

Street
City
State
Zip

Phone ( ) - Email

PAYMENT

*Residency Program, if applicable ______________________

□ Check (payable to University of Washington) for $

□ Credit Card charge $ □ Visa □ MC □ Discover □ AMEX

Card # Exp Date

CCV # Signature

□ UW Budget
Budget Name Budget #
Box # Proj Opt Task

BREAKOUT SESSIONS

(one per session, see course schedule)

Breakout #1 (Thursday) □ a □ b

Breakout #2 (Friday) □ a □ b

RETURN COMPLETED REGISTRATIONS

BY MAIL:
UW CME
Box 359558
Seattle, WA 98195-9558

BY FAX:
206.221.4525

BY PHONE:
206.543.1050

COURSE FEES

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Register online at uwcmx.org
Prevention of Sudden Cardiac Death in Athletes
November 2-3, 2017

REGISTER ONLINE
uwcme.org