Stanford Sports Concussion Summit

April 27, 2019 | 7:00 AM – 4:30 PM
Arrillaga Family Sports Center, Stanford, CA

A Continuing Medical Education Conference presented by Stanford Athletics and the Concussion and Brain Performance Center of the Department of Neurosurgery at the Stanford University School of Medicine.
STATEMENT OF NEED
The Stanford Sports Concussion Summit aims to increase participants’ knowledge and enhance clinical integration of the best practices and evidence-based advances in the diagnosis and management of concussion and mild traumatic brain injury. The clinical track focuses on developments in sports concussion while the demonstration track exhibits innovative technology in the field. The Summit will feature expert physicians, patients, and a multidisciplinary group of practitioners committed to advancing concussion research, including a former professional athlete, and Pac-12 Brain Trauma Task Force Collaborators. The sessions integrate clinical knowledge, patient experience, and public outreach to provide global insight into the management of concussion in adults and children.

TARGET AUDIENCE
This regional conference is designed to meet the educational needs of physicians, nurses, nurse practitioners, physician assistants, psychologists, social workers, physical trainers, and other allied health professionals, specializing in Emergency Medicine, Family Practice, Internal Medicine, Primary Care, Neurology, Orthopedics, Pediatrics, Psychiatry, Radiology, and Rehabilitation, as well as athletes and members of the general public interested in learning about advances in concussion.

LEARNING OBJECTIVES
At the conclusion of this activity, participants should be able to:
• Interpret key points from recent concussion guidelines.
• Describe the scope of advancing technology and its growing role in concussion diagnosis and management.
• Interpret data from current high-quality, evidence-based literature pertaining to concussion management and diagnosis.
• Differentiate the subtypes of concussion using the appropriate theory and clinical evidence.
• Construct a comprehensive picture of concussion management that includes sideline, clinical, and home care of the patient.

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
The Stanford University School of Medicine designates this live activity for a maximum of 6.00 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 Credit™ (rn.ca.gov). Nurses will receive a Certificate of Participation following this activity that may be used for license renewal.

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

STANFORD FACULTY
Robert Cowan, MD, FAAN
Clinical Professor, Neurology & Neurological Sciences
Clinical Professor (by Courtesy), Anesthesiology, Perioperative and Pain Medicine
Director, Stanford Headache Program

Daniel Daneshvar, MD, PhD
Resident, Physical Medicine and Rehabilitation

Gerald Grant, MD, FACS
Professor of Neurosurgery and, by Courtesy, of Neurology
Division Chief, Pediatric Neurosurgery

Erin Isanhart, PT, DPT, NCS
Senior Physical Therapist
Outpatient Neurologic Rehabilitative Program

William Maloney, MD
Boswell Professor, Department of Orthopaedic Surgery
Chair, Stanford University School of Medicine – Orthopaedic Surgery

Norah Simpson, PhD
Clinical Assistant Professor, Psychiatry and Behavioral Sciences
Associate Director of the Stanford Sleep Health and Insomnia Program (SHIP)

Kristen Steenerson, MD
Clinical Assistant Professor, Otolaryngology – Head & Neck Surgery Divisions
Clinical Assistant Professor, Neurology & Neurological Sciences

Gary Steinberg, MD, PhD
Bernard and Ronni Lacroute-William Randolph Hearst Professor in Neurosurgery and Neurosciences and Professor, by Courtesy, of Neurology
Chair, Stanford University School of Medicine – Neurosurgery
Founder and Co-Director, Stanford Stroke Center
Director, Stanford Moyamoya Center

Max Wintermark, MD
Professor, Radiology
Professor, By courtesy, Neurology & Neurological Sciences
Professor, By courtesy, Neurosurgery
Professor, By courtesy, Psychiatry and Behavioral Sciences

Michael Zeineh, MD, PhD
Assistant Professor, Radiology Medicine—Gastroenterology and Hepatology

FACULTY
All faculty members are from Stanford University School of Medicine unless otherwise noted.

COURSE DIRECTORS
Jamshid Ghajar, MD, PhD, FACS
Clinical Professor of Neurosurgery, Stanford University
Director, Stanford Concussion and Brain Performance Center

Angela Lumba-Brown, MD
Clinical Assistant Professor of Emergency Medicine, Stanford University

GUEST FACULTY
Matt McQueen, ScD
Associate Professor, Integrative Physiology, University of Colorado Boulder
Project Director, Pac-12 Concussion Coordinator Unit

Steve Young
NFL Hall of Famer
Founder, Forever Young Foundation
### PROGRAM

*Program is subject to change*

#### 7:00-8:00 am
**REGISTRATION AND LIGHT BREAKFAST | Jimmy V’s Cafe**

#### GENERAL SESSIONS | Kissick Auditorium

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00-8:15</td>
<td><strong>Welcome</strong>&lt;br&gt;Heather Owen; Bernard Muir; Marc Tessier-Lavigne, FRS, FRSC; and Larry Scott</td>
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<td>8:15-9:00</td>
<td><strong>49ers Then and Now</strong>&lt;br&gt;William Maloney, MD; Gary Steinberg, MD, PhD; Steve Young</td>
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<tr>
<td>9:00-9:25</td>
<td><strong>Concussion Subtypes for Targeting Treatments</strong>&lt;br&gt;Jamshid Ghajar, MD, PhD, FACS</td>
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<td>9:25-9:30</td>
<td><strong>Announcements and Transition to Tracks</strong>&lt;br&gt;Heather Owen and Angela Lumba-Brown, MD</td>
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#### CLINICAL TRACK

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:30-9:55</td>
<td><strong>Concussion in the Military</strong>&lt;br&gt;U.S. Military Presenter</td>
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<tr>
<td>9:55-10:20</td>
<td><strong>Advances in Neuroimaging and Mild Traumatic Brain Injury</strong>&lt;br&gt;Max Wintermar,k, MD and Michael Zeineh, MD, PhD</td>
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<tr>
<td>10:20-10:45</td>
<td><strong>BREAK/POSTER PRESENTATIONS</strong> Home of Champions</td>
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<tr>
<td>10:45-11:10</td>
<td><strong>Exercise Following Concussion</strong>&lt;br&gt;Angela Lumba-Brown, MD</td>
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<td>11:10-11:35</td>
<td><strong>Sleep Disturbance and its Management Following Concussion</strong>&lt;br&gt;Norah Simpson, PhD</td>
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<td>11:35-12:00 pm</td>
<td><strong>Physical Therapy for Concussion Recovery</strong>&lt;br&gt;Erin Isanhart, PT, DPT, NCS</td>
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<tr>
<td>12:00-12:25 pm</td>
<td><strong>Vestibular Symptoms and Rehabilitation Following Concussion</strong>&lt;br&gt;Kristen Steenerson, MD</td>
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#### DEMONSTRATION TRACK (NO CME)

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<th>Time</th>
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<tbody>
<tr>
<td>9:30-10:45</td>
<td><strong>Demonstration Sessions</strong>&lt;br&gt;• CDC – Heads Up Materials&lt;br&gt;Jill Daugherty, PhD&lt;br&gt;• Eye-Tracking&lt;br&gt; Dan Beeler&lt;br&gt; • Balance and Vestibular/Ocular-Motor Screening Guide&lt;br&gt; • Crash Course&lt;br&gt; Piya Socar&lt;br&gt; • Sleep Architecture&lt;br&gt; Sleep Lab&lt;br&gt; • Neurocognitive Testing&lt;br&gt; Maya Yutsis, PhD&lt;br&gt; • Helmet Safety&lt;br&gt; Stanford Parking and Transportation Services&lt;br&gt; • Head Impact Lab</td>
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<tr>
<td>10:45-11:00</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>11:00-12:25 pm</td>
<td><strong>• CDC – Heads Up Materials&lt;br&gt;Jill Daugherty, PhD&lt;br&gt;• Eye-Tracking&lt;br&gt; Dan Beeler&lt;br&gt; • Balance and Vestibular/Ocular-Motor Screening Guide&lt;br&gt; • Crash Course&lt;br&gt; Piya Socar&lt;br&gt; • Sleep Architecture&lt;br&gt; Sleep Lab&lt;br&gt; • Neurocognitive Testing&lt;br&gt; Maya Yutsis, PhD&lt;br&gt; • Helmet Safety&lt;br&gt; Stanford Parking and Transportation Services&lt;br&gt; • Head Impact Lab</strong></td>
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#### 12:25-1:25 pm
**LUNCH**

- **Dynamic and Parallel Activities | Jimmy V’s Cafe**
  - Demonstration booths
  - “Hot Seat”- hosted by Stanford Synapse
  - Stanford Faculty Poster Session – Traumatic Brain Injury

Register online at [cme.stanford.edu/concussion](http://cme.stanford.edu/concussion)
REGISTRATION

Registration fee includes course materials, certificate of participation, breakfast and lunch.

<table>
<thead>
<tr>
<th>ATTENDEE TYPE</th>
<th>FEES Early Bird Rate</th>
<th>FEES After 3/1/19</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$250</td>
<td>$450</td>
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<tr>
<td>Nurses and Allied Health Professionals</td>
<td>$250</td>
<td>$450</td>
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<tr>
<td>Members of the General Public</td>
<td>$250</td>
<td>$450</td>
</tr>
<tr>
<td>Day of Live Stream Only</td>
<td>$200</td>
<td>$400</td>
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Register online with Visa or Master Card by visiting http://cme.stanford.edu/concussion.

If you prefer to pay by check or need assistance, please call (650) 497-8554 or email stanfordcme@stanford.edu. Be sure to register with an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate.

CANCELLATION POLICY

Cancellations received in writing no less than 30 days before the course will be refunded, less a 20% 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

Arrillaga Family Sports Center
641 E. Campus Drive, Stanford, CA
Phone: (650) 723-4591

NEARBY HOTELS

Sheraton Palo Alto Hotel  (650) 328-2800
625 El Camino Real, Palo Alto, California 94301

The Westin Palo Alto  (650) 321-4422
675 El Camino Real, Palo Alto, California 94301

Please contact the hotel directly to secure a reservation.

Additional hotel options: visit.stanford.edu/plan/lodging

VISITING STANFORD UNIVERSITY

To learn more about traveling to Stanford University, please browse visit.stanford.edu.

CONTACT INFORMATION

For questions about the symposium, please contact Melissa Schwartz, CME Conference Coordinator at (650) 724-2288 or melissa.schwartz@stanford.edu

Stanford Center for Continuing Medical Education
1520 Page Mill Road, Palo Alto, CA 94304
Phone: (650) 497-8554
Email: stanfordcme@stanford.edu
Web: cme.stanford.edu

ACCESSIBILITY STATEMENT

Stanford University School of Medicine is committed to ensuring that its programs, services, goods and facilities are accessible to individuals with disabilities as specified under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Amendments Act of 2008. If you have needs that require special accommodations, including dietary concerns, please contact the CME Conference Coordinator.