UCLA Spinal Cord Injury Symposium

March 3, 2018
Red Bull Media House
Santa Monica, CA
The UCLA Spinal Cord Injury Symposium is a one-day course that presents contemporary and future strategies in the management of spinal cord injury. The first half of the day emphasizes the clinical management of spinal cord injury ranging from initial patient evaluation through postoperative rehabilitation. The management of both chronic spinal cord injury related to cervical spondylotic myelopathy and acute traumatic spinal cord injury will be discussed in didactic lectures, case presentation, and question and answer sessions. Recent evidence-based studies will be utilized. The second half of the course will be focused on emerging basic science and clinical research, and delves into novel functional restoration and neural repair strategies including nanotechnology, dietary supplementation, stem cells, and robotics.

**Course Description**

The purpose of this course is to increase competency in the management of patients with chronic and acute spinal cord injury. Additionally, this program seeks to increase familiarity with the research strategies that are shaping the management of spinal cord injury currently and in the future.

Attendees completing this course will increase skills and knowledge to better:

- Evaluate and treat both acute and chronic spinal cord injury patients, including operative and nonoperative options as well as critical care management
- Contrast the anterior and posterior surgical approaches for cervical spondylotic myelopathy and distinguish which approaches are the most optimal for a specific clinical presentation
- Describe the role of sagittal balance and other spinal deformity parameters in the pathogenesis of cervical spondylotic myelopathy and incorporate these measurements into clinical practice
- Compare traditional and novel rehabilitation strategies following spinal cord injury and formulate individualized treatment plans
- Define the etiology of chronic pain in spinal cord injury patients and employ the available operative and nonoperative options to improve pain levels in these patients
- Identify the areas of controversy in the management of traumatic spinal cord injury based on evidence-based guidelines
- Describe the basic science and clinical research strategies that are actively being translated into the treatment for spinal cord injury patients
- Explore the basic science and clinical research strategies that are likely to be translated into the treatment for spinal cord injury patients in the future

**Target Audience**

The target audience is health care professionals and researchers invested in improving the care for spinal cord injury patients including neurosurgeons, orthopaedists, neurologists, intensivists, rehabilitation specialists, physiatrists, pain management physicians, nurses, physician assistants, and spinal cord injury researchers.
COURSE DIRECTORS

Langston T. Holly, MD
Professor and Vice Chair of Clinical Affairs, Department of Neurosurgery
David Geffen School of Medicine at UCLA

Daniel C. Lu, MD, PhD
Associate Professor of Neurosurgery
Director, Neuromotor Recovery and Rehabilitation Center
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A. Nick Shamie, MD
Professor and Chief, Orthopaedic Spine Surgery
David Geffen School of Medicine at UCLA

COURSE FACULTY

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Department of Anatomy and Neurobiology
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Gary L. Brinderson Family Chair in Neurocritical Care
Professor of Neurology and Neurosurgery
David Geffen School of Medicine at UCLA

J. Pablo Villablanca, MD, FACR
Professor of Radiological Sciences,
Director of Interventional Spine Service
Medical Director of MRI
David Geffen School of Medicine at UCLA
Saturday, March 3, 2018

7:30  Registration and Continental Breakfast

8:00  Introduction
    Langston T. Holly, MD, Daniel C. Lu, MD, PhD

Session 1: Cervical Spondylotic Myelopathy

8:05  Cervical Spondylotic Myelopathy Overview: A Form of Chronic Spinal Cord Injury
    Langston T. Holly, MD

8:25  Advances in Imaging for Cervical Spondylotic Myelopathy – How Can We Better Assess Spinal Cord Injury?
    J. Pablo Villablanca, MD, FACR

8:45  Anterior Surgical Approaches Are Best for Cervical Spondylotic Myelopathy
    Duncan Q. McBride, MD

9:05  Posterior Surgical Approaches Are Best for Cervical Spondylotic Myelopathy
    A. Nick Shamie, MD

9:25  The Role of Sagittal Balance and Deformity Parameters in Cervical Spine Surgery
    Luke Macyszyn, MD, MA

9:45  Intraoperative Neuromonitoring – What Does It Provide?
    Marc R. Nuwer, MD, PhD

10:05  Break

Session 2: Acute Traumatic Spinal Cord Injury: Clinical

10:20  Initial Management of SCI – A Trauma Surgeon’s Perspective
    Rochelle A. Dicker, MD

    Don Young Park, MD

11:00  Contemporary ICU Management
    Paul Vespa, MD

11:20  Rehabilitation after SCI
    David N. Alexander, MD

11:40  The Diagnosis and Management of Post-Traumatic Syringomyelia
    Ulrich Batzdorf, MD

12:00  Pain Management Following Spinal Cord Injury
    Jae H. Jung, MD

12:20  Lunch
Session 3: Acute Traumatic Spinal Cord Injury: Research

1:10 Neuromodulation to Improve Upper Extremity Function after Cervical Spinal Cord Injury  
Daniel C. Lu, MD, PhD

1:30 Brain-Computer Interfaces: Early Experience in Spinal Cord Injury  
Nader Pouratian, MD, PhD

1:50 Robotics and Wearable Sensors for Re-Training Hand Dexterity  
David J. Reinkensmeyer, PhD

2:10 Matching Rehabilitation to the Targets of Biological Interventions  
Bruce H. Dobkin, MD

2:30 Astrocyte Scars Do Not Prevent Axon Regeneration across SCI Lesions  
Michael V. Sofroniew, MD, PhD

2:50 Break

3:00 Neural Repair and Neuromodulation in Non-Human Primate Models of Lumbosacral Spinal Cord Injuries  
Leif A. Havton, MD, PhD

3:20 Neurogenic Bladder in Spinal Cord Injury: Treatment Options 2018  
Carol J. Bennett, MD

3:40 Modeling Central Nervous System Development Using Stem Cells – Implications for Spinal Cord Injury  
Bennett Novitch, PhD

4:00 Using Nutritional Power to Re-Build Circuits after Spinal Cord Injury  
Fernando Gómez-Pinilla, PhD

4:20 The Current State of Nanotechnology Research in Spinal Cord Injury  
Don Young Park, MD

4:40 Adjourn
**General Information**

**Registration Fee**

$125  Physicians  
$75  Nurses, Allied Health Professionals, Researchers  
$25 Fellows, Residents, Students  
Free UCLA Fellows, Residents, Students

**Refunds**

Cancellations must be received in writing by **Friday, February 2, 2018** and will be subject to a $50 processing fee. No refunds will be granted after that date. If, for any reason, the course must be cancelled, discontinued, or rescheduled by the Office of Continuing Medical Education, a full refund will be provided.

**Enrollment**

*By Mail*

Use the form attached. Mail to the UCLA Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, UCLA Spinal Cord Injury Symposium, 10920 Wilshire Blvd., Ste. 1060, Los Angeles, CA 90024-6512

*Online*

Go to www.cme.ucla.edu/courses, click on UCLA Spinal Cord Injury Symposium, and click on the registration information section. You may use your MasterCard, VISA, American Express or Discover card to register online.

*By Phone*

Use your American Express, MasterCard, VISA or Discover card. Call (310) 794-2620.

*By FAX*

Send the completed enrollment form with credit card information and authorizing signature. Fax (310) 794-2624.

**Program Location**

Red Bull Media House  
1740 Stewart Street  
Santa Monica, CA 90404

**Directions and Parking**

From the 405 freeway take the 10 freeway West. Exit the freeway at exit 2A and turn left on Centinela Avenue. Turn left on Olympic Blvd. Turn right on Stewart. Turn left into the gated parking lot. Parking is free and you are welcome to park in any open spot. Enter the main entrance from the parking lot. You will be directed to the screening room upon arrival.

**Accreditation**

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this live activity for a maximum of 8.75 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Disclosure Statement**

The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is “truly independent” and free of commercial influence. In addition to independence, the FDA requires that nonpromotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, Accreditation Council for Continuing Medical Education policy mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. We at UCLA fully endorse the letter and spirit of these concepts.
# UCLA Spinal Cord Injury Symposium

## March 3, 2018

### Application for Enrollment (Please Print)

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<th>Course Title and Number</th>
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<td><strong>UCLA Spinal Cord Injury Symposium</strong> M178-39</td>
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### REGISTRATION FEES:

- $125 Physicians
- $75 Nurses, Allied Health Professionals, Researchers
- $25 Fellows, Residents, Students*

*Complimentary registration for UCLA Fellows, Residents and Students can be arranged by contacting Steven Cohen at stevencohen@mednet.ucla.edu

*Please print clearly, and remember to include your credit card number and authorizing signature.*

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Last four digits of your Social Security Number

Name (First/Middle/Last)    Degree    ☐ Male ☐ Female

Preferred Mailing Address

City/State/ZIP    (_____ )  (____ )  Daytime Phone

Area Code    FAX    E-mail

Specialty

☐ Check enclosed payable to: The Regents of the University of California

Charge: ☐ MasterCard    ☐ Visa    ☐ Discover    ☐ American Express

_______–_________–_________–_________–_________

Name of cardholder

Authorizing Signature    Expiration (Mo/Yr)

Mail to: Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, UCLA Spinal Cord Injury Symposium, 10920 Wilshire Blvd., Suite 1060, Los Angeles, CA 90024-6512.
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