



American Society of  
Regional Anesthesia and Pain Medicine

Advancing the science and practice of regional anesthesia and pain medicine



**Pain Medicine and MSK Ultrasound Cadaver Course**

Saturday, June 13—Sunday, June 14, 2015

Northwestern Center for Advanced Surgery and Education, Chicago, IL

**COURSE GUIDE**

# Course Overview

ASRA's Pain Medicine and MSK Ultrasound Cadaver Course is 1-1/2 days of intensive, highly interactive learning and practical information that you can immediately put to use in your practice. Each topic consists of an introductory lecture followed by hands-on practice using live models and cadavers.

## Highlights

- Interventional and diagnostic ultrasound techniques
- Cadavers and live models for hands-on instruction
- Small group learning with no more than 10 participants per group
- Renowned faculty sharing their expertise with a 1:5 faculty to learner ratio
- Comprehensive course curriculum to support learning prior to, during, and after the course
- Approved American Board of Anesthesiology Maintenance of Certification Activity ([ABA MOCA](#)) self-assessment activity.

## Educational objectives

After participating in this educational activity, participants should be able to:

- Discuss the basic principles of ultrasound imaging, equipment, functionality, aseptic technique, and injectate selection for ultrasound-guided pain procedures.
- Explain the advantages and shortcomings of ultrasound-guided pain procedures.
- Describe the relevant sonoanatomy for various cervical and lumbar spinal injections.
- Apply peripheral nerve, musculoskeletal (MSK), and spine ultrasound scanning and needling techniques.
- Perform ultrasound-guided pain blocks with superior dexterity.
- Identify how ultrasound-guided joint injections and other MSK applications can improve the accuracy of the procedure.
- Claim ABA MOCA self-assessment CME credit.

## Target audience

The course is designed for the physician learner; specifically for Pain Practitioners, Anesthesiologists, Physical Medicine and Rehabilitation Physicians, Neurologists and Sports Medicine Physicians currently using or wishing to use ultrasound technology for interventional and diagnostic pain procedures.

# Top 5 Course Essentials

# 1

## Locations

### Educational Sessions

Northwestern Center  
for Advanced Surgical Education (NCASE)  
240 East Huron Street  
Chicago, IL 60611  
Tel: 312.503.4034

### Recommended Hotel

Hyatt Chicago Magnificent Mile  
633 North Saint Clair Street  
Chicago, IL 60611  
Tel: 312.787.1234

# 2

## NCASE Security Access

Everyone entering the NCASE building must be preregistered; on-site registration is not possible. Attendees must show photo ID on arrival and have a picture taken onsite to receive an access badge. The NCASE building will be accessible beginning at 7 am each morning.

# 3

## Educational Materials and Presentations

Educational support materials are available to learners on the [ASRA website](#) and accessible with the password **ASRACCP15**. Materials are available to meeting participants prior to, during, and after the meeting (up to one year) for educational purposes only. Access to particular content is provided based on meeting registration and is password protected. Distribution is limited, and none of the materials should be further distributed or reproduced.

# 4

## Evaluations and CME Certificates

Your opinion matters! Evaluate sessions and faculty and obtain your CME certificate by accessing the online system before June 29 at [www.surveymonkey.com/r/ASRACCP15](http://www.surveymonkey.com/r/ASRACCP15). See page 9 for more information on CME credits and certificates.

# 5

## Attendance Policies

- Registration fees are refundable, minus a \$100 processing fee, if cancellation is received in writing no later than three (3) weeks prior to the event commencement. After this date, under no circumstances will refunds or credits be granted.
- Attendee substitutions are allowed if notification is made in writing no later than three (3) weeks prior to the event commencement. A \$100 processing fee will be charged. After this date, under no circumstances will substitutions be granted.
- No refunds or credits will be given to “no shows.”
- All event activities (including educational sessions, meal functions, exhibit hall, etc.) are exclusively reserved for registered attendees. Nonregistered guests (e.g., children, family members, colleagues) are not allowed in event areas. Badges provided at registration are required for entrance into all functions and will be strictly enforced.
- ASRA reserves exclusive rights to photograph and/or record (audio and video) all event proceedings and participants for use in marketing materials, presentations, and course content reproductions (online or other). Photography and/or recording by individuals is not permitted in the scientific, educational, and business meetings during any ASRA event, unless specifically preauthorized by ASRA. Individuals granted such privileges shall be properly registered at the event and issued the proper proof of privileges (press badge or other).
- ASRA reserves the right to modify the event’s schedule or program as necessary. ASRA reserves the right to cancel this event, in which case a full refund of the registration fee will be provided. ASRA is unable to refund any attendee expenses (flight, hotel, etc.) in the case of ASRA cancellation.
- ASRA and meeting organizers accept no liability for personal accidents or loss of or damage to private property of participants, either during or indirectly arising from this workshop. Participants are advised to take out their own personal health and travel insurance for their trip.
- ASRA fully complies with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. If any participant in this educational activity has a special need, please contact us at the American Society of Regional Anesthesia and Pain Medicine, 239 Fourth Avenue, Suite 1714, Pittsburgh, PA 15222, 855.795.ASRA (toll free in U.S.), 412.471.2718, [asrameetings@asra.com](mailto:asrameetings@asra.com).

# ASRA Leadership and Course Faculty

## Leadership

President: Oscar A. de Leon-Casasola, MD  
President-Elect: Asokumar Buvanendran, MD  
Treasurer: Eugene Viscusi, MD  
Immediate Past President: Joseph M. Neal, MD  
Executive Director: Angie Stengel, MS, CAE

### Directors:

John Butterworth, MD  
James Hebl, MD  
Edward Mariano, MD  
Colin J.L. McCartney, MBChB, FRCA, FRCPC  
Samer Narouze, MD, PhD  
Anahi Perlas, MD, FRCPC  
David Provenzano, MD

## Committee on Continuing Medical Education

Terese Horlocker, MD, Chair  
Daniel Warren, MD, Vice Chair  
Chad Brummett, MD  
Sandra Kopp, MD  
Ellen W.K. Rosenquist, MD  
Brian Sites, MD  
Oscar de Leon-Casasola, MD (ex-officio)

## Scientific/Education Planning Committee

Antoun Nader, MD, Northwestern University Feinberg School of Medicine, Chicago, IL  
Samer Narouze, MD, PhD, Summa Western Reserve Hospital, Cuyahoga Falls, OH  
David Provenzano, MD, Pain Diagnostics and Interventional Care, Sewickley, PA

## Faculty



**Carlo Franco, MD** is the chairman of Regional Anesthesia at JHS Hospital of Cook County and professor of Anesthesiology and Anatomy at Rush University Medical Center in Chicago. He earned his degree in General Surgery and Anatomy from the

University of Valparaiso in Chile.

Dr. Franco immigrated to the United States in 1985 and served as a visiting professor of Anatomy at the Medical College of Ohio in Toledo from 1985 to 1986 and 1988 to 1989. Dr. Franco did his Anesthesiology Residency at Sinai Hospital of Detroit from 1990 to 1994. He was recruited to Cook County Hospital of Chicago (now JHS Hospital of Cook County) by Dr. Alon Winnie in 1994. He is responsible for the introduction of some new anatomy-based nerve block techniques.



**Mark Hurdle, MD**, of the Mayo Clinic in Jacksonville, FL, utilizes ultrasound in both his pain management and rehabilitation (PM&R) practice and in the Pain Clinic. He completed his training in PM&R and Pain at the Mayo Clinic in Rochester, MN.

**Antoun M. Nader, MD**, is a professor in the department of Anesthesiology and Orthopedics at the Feinberg School of Medicine at Northwestern University in Chicago. He is the section chief for Regional Anesthesia and Acute



Pain Management at Northwestern Memorial Hospital and the medical director for Acute Pain Medicine. He is also the fellowship codirector for the Adult and Pediatric Regional Anesthesia and Acute Pain Management

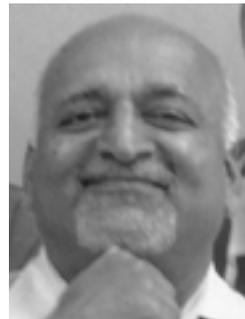
Fellowship at McGaw Medical Center, Northwestern University. Dr. Nader is board certified in anesthesiology, with a subspecialty certification in pain management. He is a member of ASRA, the American Society of Anesthesiology (ASA), and the Association of University Anesthesiologists. With interests in neuroanesthesiology and pain management, he is engaged in numerous activities, including authorship, editorial work, grant review, and lecturing for many societies. During his medical career in pain management, he has authored and coauthored more than 150 original peer-reviewed articles, editorials, reviews, books, commentaries, case reports, and technical notes. He is very involved in the development of Institutional Pathways for regional anesthesia and pain management protocols that have resulted in publications in major anesthesia journals.



**David Provenzano, MD**, is the president of Pain Diagnostics and Interventional Care in Sewickley, PA. He received his undergraduate degree from Colgate University where he graduated Magna Cum Laude and became a Phi Beta Kappa member. He received

his medical degree from the University of Rochester School of Medicine and Dentistry. He completed a surgical internship at Thomas Jefferson University Hospital and a residency in anesthesiology at The Western Pennsylvania Hospital. He completed a Pain Manage-

ment Fellowship at the Dartmouth Hitchcock Medical Center. He serves on the Board of Directors of ASRA as well as the Educational Track Subcommittee on Pain Medicine for ASA. He has extensive interests and expertise in the conservative treatment of pain originating from the cervical and lumbar spine, neuromodulation, and utilization of ultrasound for interventional pain management procedures.



**Hariharan Shankar, MD**, is board certified in Anesthesiology and Pain medicine. He is the director for the Pain Medicine Fellowship Program at the Medical College of Wisconsin and the director of the Pain Clinic at the Zablocki VA Medical Center

in Milwaukee. He has received many "Teacher of the Year" awards, is one of the pioneers in the use of ultrasound imaging, and lectures nationally and internationally. He has to his credit many abstracts, book chapters, review articles, and peer-reviewed publications.



**Dmitri Souzdalnitski, MD**, earned his medical degree in 1987 and doctor of science degree in 2000. He graduated from the Anesthesiology Residency Program at Yale University School of Medicine in Connecticut; from the Internal Medicine

Residency at Good Samaritan Hospital of Maryland, which is affiliated with Johns Hopkins University; and from the Pain Medicine Program at Cleveland Clinic. He served as a medical director of the Pain Medicine Center at South Pointe Hospital at the Cleveland Clinic. He has authored numerous publications related to use of ultrasonography in pain management. He serves as a clinical professor at Ohio University, and is a faculty and board member at national physician symposia.

## Associate Faculty



**Neilesh Soneji, MD**, completed his medical training and anesthesia residency at the University of Toronto. He completed a fellowship in chronic pain management at the University Health Network and Wasser Pain Management Centre, Mt.

Sinai Hospital, where he continues to practice as a staff anesthesiologist. He specializes in the management of acute and chronic pain with a particular interest in ultrasound guided interventions for musculoskeletal pain.



**Reda Tolba, MD**, completed the Anesthesiology Residency Training and Fellowship in Pain Medicine at Cleveland Clinic Foundation. He is currently an attending physician in the Anesthesiology and Pain Management Department at Ochsner Clinic Foun-

dation in New Orleans, LA. He has been academically active, having published numerous papers in the field of pain medicine. He has edited and written more than six book chapters in the field of pain medicine. He has special interest in the application of ultrasound for diagnosis and treatment of chronic pain conditions. He is also interested in application of neuromodulation for treatment of chronic neuropathic pain. He is currently involved in different projects and research studies in the field of chronic pain.



**Bruce Vrooman, MD, MS, FIPP**, practices pain medicine and anesthesiology at Cleveland Clinic after having completed his anesthesiology residency and pain medicine fellowship. Two particular areas of interest include abdominal pain and

complex regional pain syndrome. Currently, he uses ultrasound in his pain medicine clinic for performing a variety of sympathetic and peripheral nerve blocks as well as peripheral nerve stimulation.

# Disclosure and Resolution of Personal Conflicts of Interest

In accordance with the ACCME's Standards for Commercial Support and related policies, ASRA is committed to ensuring balance, independence, objectivity, and scientific rigor in its CME/CPD activities. Those in control of the educational content disclose all relevant relationships (financial or other) with any commercial interest that they or their spouse/partner have had within the past 12 months. If an individual refuses to disclose, they are disqualified from participating. Disclosure information is evaluated and conflicts of interest resolved. Disclosure is made to participants prior to the activity. Participants are asked to evaluate the objectivity and independence. Off-label or investigational use of a therapeutic product is also disclosed.

- Brummett, Chad (CME)
  - Neuros Medical (funded research-institution); Dex-medetomidine (royalties, patent)
- Franco, Carlo (Faculty)
  - B. Braun, Philips, Kimberly-Clark (honoraria/expenses)
- Horlocker, Terese (CME) – Nothing to disclose
- Hurdle, Mark (Faculty)– Nothing to disclose
- Kopp, Sandra (CME) – Nothing to disclose
- Nader, Antoun (Planning, Faculty)
  - Pacira (consulting/advisory board)
- Narouze, Samer (Planning) – Nothing to disclose
- Provenzano, David (CME, Planning, Faculty)
  - Halyard Health, Medtronic, St. Jude Medical, Trevena (consulting/advisory board)
- Shankar, Hariharan (Faculty)
  - Mallinckrodt Pharmaceuticals, Dannemiller (honoraria/expenses)
- Soneji, Neilesh (Faculty) – Nothing to disclose
- Souzalnitski, Dmitri (Faculty) – Nothing to disclose
- Tolba, Reda (Faculty)
  - AstraZeneca (speakers bureau)
- Tsui, Ban (CME)
  - Pajunk (royalties/patent)
- Vrooman, Bruce (Faculty) – Nothing to disclose
- Warren, Daniel (CME) – Nothing to disclose
- ASRA Administrative Team (Society, CME, and Meeting Management) – Nothing to disclose

# Course Program

## Saturday, June 13, 2015 (8.25 credits)

7:15 am	Registration and Breakfast
7:40 am	Welcome and Introduction.....Antoun Nader, MD
7:45 am	Pain Management Ultrasound Pre-Test.....David Provenzano, M.D

### Didactic Lectures

8:00 am	Basics of Ultrasound .....Antoun Nader, MD
8:45 am	Lumbar Spine Sonoanatomy .....David Provenzano, MD
9:15 am	Cervical Spine Sonoanatomy .....David Provenzano, MD
9:45 am	Occipital, Suprascapular, Intercostal, Abdominal Wall Sonoanatomy .....Hariharan Shankar, MD
10:15 am	Panel Discussion and Q&A
10:30 am	Break

### Interactive Lectures with Live Model Demonstrations

10:40 am	Lumbar Spine Scan.....David Provenzano, MD
11:00 am	Cervical Spine Scan .....David Provenzano, MD
11:20 am	Occipital, Suprascapular, and Intercostal, Abdominal Wall.....Hariharan Shankar, MD
12:00 pm	Lunch

### Hands-on Scanning Workshops

1:00 pm	Concurrent Stations 1-6 (35 minutes each) 1. Lumbar Spine, Facet , SIJ, Caudal, Piriformis (cadaver scans) 2. Cervical Spine, Facet, Stellate Ganglion (cadaver scans) 3. Cervical Spine and Stellate Ganglion (model scans) 4. Lumbar Spine, Facet (model scans) 5. Occipital, Suprascapular, and Intercostal, Abdominal Wall (model scans) 6. Peripheral Nerves: Lower Extremity (model scans) • Optional Blue Phantom Peripheral Nerve Block
1:35 pm	Stations 1-6 Repeat
2:10 pm	Stations 1-6 Repeat
2:45 pm	Break
2:55 pm	Stations 1-6 Repeat
3:30 pm	Stations 1-6 Repeat
4:05 pm	Stations 1-6 Repeat
4:40 pm	Pain Management Ultrasound Post-Test
5:00 pm	Panel Discussion and Q&A
5:30 pm	Adjournment

## Sunday, June 14, 2015 (5.75 credits)

7:30 am Breakfast with Faculty  
8:00 am MSK Ultrasound Pre-Test .....David Provenzano, MD

### Didactic Lectures

8:10 am Ultrasound: Billing.....David Provenzano, MD

### Interactive Lectures with Live Model Demonstrations

8:30 am Shoulder Joint/Bursa Scan.....Mark Hurdle, MD  
8:50 am Hip and Knee Joint Scan.....Mark Hurdle, MD  
9:10 am Hand (CTS) and Foot (planter fascia) Scan.....Hariharan Shankar, MD

### Hands-on Scanning Workshops

9:30 am Concurrent Stations 7-12 (35 minutes each)  
7. Shoulder Joint and Bursa (model scans)  
8. Hip Joint and Bursa (cadaver scans)  
9. Knee Joint and Bursa (model scans)  
10. Elbow Joint (golf elbow and tennis elbow) (model scans)  
11. Hand (CTS) and Foot (planter fasciitis) (model scans)  
12. Peripheral Nerve: Upper Extremity (model scans)  
• Optional Blue Phantom Peripheral Nerve Block

10:05 am Stations 7-12 Repeat  
10:40 am Break  
10:50 am Stations 7-12 Repeat  
11:25 am Stations 7-12 Repeat  
12:00 pm Stations 7-12 Repeat  
12:35 pm Stations 7-12 Repeat

1:10 pm Box Lunch and MSK Ultrasound Post-Test .....David Provenzano, MD  
1:30 pm Panel Discussion and Q&A  
2:00 pm Closing Remarks and Final Adjournment .....Antoun Nader, MD

# Continuing Medical Education/Continuing Professional Development

To receive your CME certificate:

1. Access the online system before **June 29** by visiting [www.surveymonkey.com/r/ASRACCP15](http://www.surveymonkey.com/r/ASRACCP15).
2. Complete the anonymous online evaluation.
3. Indicate the number of hours you attended (credit will be verified against registration).
4. Your certificate will be sent to the e-mail address provided within 3 weeks of completing the online process.
5. Thank you for your feedback!

## Accreditation and Credit Designation Statements

ASRA is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



ASRA designates this live activity for a maximum of 14 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Credit Breakdown

Day	Maximum Credits
Saturday .....	8.25
Sunday .....	5.75
<b>Total Credits:.....</b>	<b>14</b>

## The American Board of Anesthesiology (ABA)

Self-Assessment CME Credits: This activity helps fulfill the self-assessment CME requirement for Part II of the Maintenance of Certification in Anesthesiology Program (MOCA) of The American Board of Anesthesiology (ABA). Please consult the ABA website, [www.theABA.org](http://www.theABA.org), for a list of all MOCA requirements.



Maintenance of Certification in Anesthesiology Program® and MOCA® are registered certification marks of The American Board of Anesthesiology.®

Credit Reporting to the ABA: ASRA is an ABA approved provider and as a service to ASRA members and participants, CME credits are reported to the ABA. Participants must include their correctly formatted ABA ID number (3456-7890) during the online evaluation and credit claim process available at the conclusion of the activity. Once the online evaluation and credit claim process is closed, certificates will be issued and credits reported to the ABA. After this time, participants may request their CME certificate by contacting [asrameetings@asra.com](mailto:asrameetings@asra.com), but ASRA will no longer report credits to the ABA, which will then be the individual participant's responsibility.

## International Credits

The Royal College of Physicians and Surgeons of Canada has agreements based on the mutual recognition of credit points with the American Medical Association for live educational events. You may submit your CME certificate directly for credit recognition of this accredited group learning activity (Section 1) as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada. For more information, visit: [www.royalcollege.ca](http://www.royalcollege.ca)

European Accreditation Council for Continuing Medical Education (UEMS-EACCME): The UEMS-EACCME has agreements based on the mutual recognition of credit points with the American Medical Association for live educational events. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. The EACCME is an institution of the European Union of Medical Specialists (UEMS): [www.uems.net](http://www.uems.net)

## Commercial Support Disclosure

This course is supported, in part, by educational grants and in-kind support from industry. All support is managed in strict accordance with the ACCME's Standards for Commercial Support. Appropriate acknowledgement of all supporting organizations is made to participants prior to the educational activity in the program guide, on the event website, and with signage during the meeting.

**Grants:** GE Healthcare, SonoSite FUJIFILM

**In-Kind, Disposable Supplies:** Havel's, Pajunk, Teleflex

**In-Kind, Durable Equipment:** GE Healthcare, Halyard Health, Pajunk, SonoSite FUJIFILM

# Guidelines Regarding Industry Representative Participation and In-Kind Support

## Industry Support

This course is supported, in part, by in-kind contributions from industry (donations of durable equipment and/or disposable supplies). ASRA would like to thank all the companies for their support of this educational activity.

## Disclosure

Attendees may view the full list of supporting companies in the printed program guide and activity website.

## Industry Representative/Technician Participation

In addition to the in-kind support provided, ASRA has requested that technicians from multiple supporting companies be present to demonstrate the operational aspects and proper functioning of the devices only.

## Strict Compliance with the ACCME's Accreditation Criteria and Standards for Commercial Support

1. ASRA is responsible for all decisions regarding the educational elements (planning, content, faculty selection, presentation, evaluation, etc.). Industry representatives in no way influence any portion of the CME activity; including how the in-kind support will be used or allocated to the educational sessions.
2. Industry employees shall be easily identifiable by their company and meeting badges.
3. The industry representative shall only contribute technical information about the use of the equipment.
4. The industry representative shall NOT expand their input into areas of clinical medicine, such as:
  - a. No indications for use
  - b. No comparisons between competing products
  - c. No comparisons between the device, invasive surgery, and/or medical treatment.
5. ASRA's faculty and staff provide strict supervision to ensure proper professional behavior by industry representatives.
6. ASRA reserves the right to physically limit the technician's access to the educational setting; requesting the technician's participation only when questions arise or further assistance is needed.

## Attendee Feedback

Attendees are encouraged to communicate any concerns of commercial influence or bias directly to faculty, staff members at the registration desk, and via the online evaluation.





**American Society of Regional Anesthesia and Pain Medicine**  
Advancing the Science and Practice of Regional Anesthesia and Pain Medicine



**PAIN MEDICINE**



**14<sup>th</sup>**

**Annual  
Pain Medicine  
Meeting**

November 19-21, 2015  
Miami, Florida  
Fontainebleau Miami Beach

[www.asra.com](http://www.asra.com)

- New anticoagulation guidelines specific for interventional pain procedures.
- How are nanotechnology, stem cells, and gene therapy influencing pain medicine?
- Lectures and workshops on Platelet Rich Plasma (PRP) injections for sports injuries.
- Cadaver and live model ultrasound and fluoroscopy-guided workshops on interventional techniques in cancer and non-cancer pain.
- Specialized nurse practitioner and physician assistant program and credits.
- New ePoster system and moderated ePoster track.
- Expert faculty eager to share their practical experience.

**See You in Beautiful Miami!** Submit your abstract by July 13th!