



American Society of Regional Anesthesia and Pain Medicine

*Advancing the science and practice of regional anesthesiology and pain medicine
to improve patient outcomes through research, education, and advocacy*

ASRA



ASRA-ASA Ultrasound-Guided Regional Anesthesia Education Portfolio Cadaver Course

Saturday, November 4—Sunday, November 5, 2017

Northwestern Center for Advanced Surgical Education (N-CASE), Chicago, IL

COURSE GUIDE

Course Overview

This course is a two-day learning opportunity with a strong practical focus delivering information of take-home value that can be put to immediate benefit in clinical practice. During this intensive weekend, each topic is covered with an introductory lecture followed by extensive opportunity for hands-on practice using live models and cadavers. Attendees are supported by expert clinicians who share their knowledge and experience in this interactive, small group learning environment.

Highlights

- Cadaver and live model hands-on and highly interactive educational formats
- Limited to 84 attendees in small hands-on working groups
- Renowned faculty
- Comprehensive course curriculum
- Satisfies requirements for the ASRA-ASA Ultrasound-Guided Regional Anesthesia (UGRA) Education and Clinical Training Portfolio

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 local anesthetic selection for ultrasound-guided regional anesthesia.
- Identify and describe the surface and ultrasound anatomy.
- Apply peripheral nerve block ultrasound scanning and needling techniques.
- Perform peripheral nerve blocks with superior dexterity.
- Assess billing and economic issues related to ultrasound-guided regional anesthesia.
- Fulfill knowledge base and technical skills requirements for the Ultrasound-Guided Regional Anesthesia (UGRA) Education and Clinical Training Portfolio.

Target audience

This course is designed for physician regional anesthesia practitioners currently using or wishing to use ultrasound technology in the administration of regional nerve blocks. The course is designed to meet the varied educational needs from those just starting to use ultrasound guidance in regional anesthesia to the more practiced clinician with a broader experience base.

Top 5 Course Essentials

1

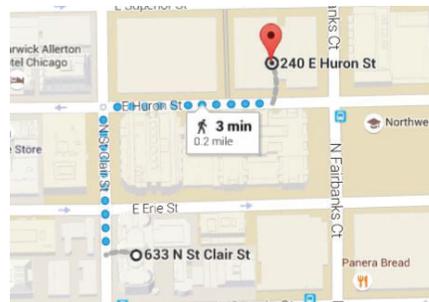
Locations

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.

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Educational Materials and Presentations

Educational support materials are available to learners on the [ASRA website](#) and accessible with the password **ASRACCRA17**. 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.

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Evaluations and CME Certificates

Your opinion matters! Evaluate sessions and faculty and obtain your CME certificate by accessing the online system before **November 20th** at www.surveymonkey.com/r/ASRACCRA17. See page 12 for more information on CME credits and certificates.

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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, Four Penn Center West, Suite 401, Pittsburgh, PA 15276, 855.795.ASRA (toll free in U.S.), 412.471.2718, asrameetings@asra.com.

ASRA Leadership

Leadership

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Asokumar Buvanendran, MD (ex-officio)

Scientific/Education Planning Committee

Antoun M. Nader, MD, Northwestern University, Feinberg School of Medicine, Chicago, IL

Timur J.P. Ozelsel, MD, DESA, University of Alberta, Edmonton, Alberta, Canada

Course Faculty



Derek Dillane, MB BCh, FCARCSI, joined the University of Alberta in 2006 where he completed a clinical and research fellowship in regional anesthesia. He is currently an associate professor at the University of Alberta and director of the fellowship program in regional anesthesia and pain medicine. His clinical research interests involve the use of ultrasound in regional anesthesia with a particular focus on education and training techniques. He has taught and led ultrasound-guided regional anesthesia in numerous workshops in the United States and Canada for both ASRA and the Canadian Anesthesiologists' Society (CAS). He is currently the chair of the Regional Anesthesia Section of the CAS.



Carlo Franco, MD, is the chairman of Regional Anesthesia at JHS Hospital of Cook County Chicago and professor of anesthesiology and anatomy at Rush University Medical Center in Chicago, IL. Dr. Franco received his degree in general surgery and anatomy from the University of Valparaiso in Chile. He immigrated to the USA in 1985 and served as visiting professor of anatomy at the Medical College of Ohio in Toledo, OH, from 1985-86 and 1988-89. Dr. Franco completed his anesthesiology residency at Sinai Hospital of Detroit in Detroit, MI, from 1990-94 and was recruited to Cook County Hospital of Chicago (now JHS Hospital of Cook County) by Dr. Alon Winnie in 1994. He has introduced some new anatomy-based nerve block techniques.



Andrew T. Gray, MD, PhD, is professor of clinical anesthesia at the University of California, San Francisco where he directs the regional anesthesia program at San Francisco General Hospital. He has written more than 20 articles on ultrasound-guided regional anesthesia, as well as two textbooks, and now pursues investigations on safety with the help of the Carl Koller Research Award from ASRA.



Jean-Louis Horn, MD, is a professor and chief of the division of Regional Anesthesia at Stanford University Medical Center in Stanford, CA, where he actively pursues his endeavors in all aspects of the academic mission of the institution including the development of a productive clinical practice, innovative research projects and original education curriculum. In order to promote better and safer regional anesthesia and acute pain practice, he is involved with many departmental, institutional, and national committees as well as teaching and mentoring student and colleagues locally, nationally, and internationally.



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, IL. 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 co-director for the adult and pediatric regional anesthesia and acute pain management fellowship at McGaw Medical Center at Northwestern University. Dr Nader is board certified in anesthesiology with a subspecialty certification in pain management. He is a member of the American Society of Anesthesiology, ASRA, 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.



Timur J.P. Ozelsel, MD, DESA, the son of a Turkish father and a German mother, was born in Baton Rouge, LA, and grew up in between the USA and Germany. All of his medical training as well as fellowships in ICU and cardiac anesthesia were completed in Germany before moving to Canada in 2007. Dr. Ozelsel is now enjoying a great practice in his two other fellowships, regional anesthesia and liver transplantation. He is happily married and father of three healthy and energetic children, all of who are his main passion in life when he is not at work.



Francis Salinas, MD, has been at Virginia Mason Medical Center since 1998. He is board certified in anesthesiology, internal medicine, and perioperative trans-esophageal electrocardiography. He is fortunate and grateful to be able to practice both regional anesthesia and cardiac anesthesia on a daily basis. He was fortunate to learn regional anesthesia from some of the giants of the specialty, such as Dr. Gale Thompson, Dr. Manni Batra, Dr. Mike Mulroy, and Dr. Joseph Neal. Through their love of regional anesthesia and mentorship, he has learned the foundations of anatomy and physiology, pharmacology, and evidenced-based medicine. Dr. Salinas believes that regional anesthesia provides tremendous perioperative benefits to patients in terms of better analgesia, decreased opioid-related side effects, and enhanced functional recovery, and it contributes significantly to decreases in perioperative morbidity and perhaps even mortality. The appropriate application of perioperative regional anesthesia also provides tremendous benefits to the specialty. By providing state-of-the-art analgesia, physicians are able to contribute to the concept of the perioperative surgical home and clearly increase the visibility and importance as true perioperative physicians.



Content Contributor: Guy Weinberg, MD, trained in internal medicine and medical genetics before converting to anesthesiology (a wise move). He had also spent time in biochemistry laboratories at the University of California at San Francisco and the National Institutes of Health before leaving research forever (he thought) vowing never to do another experiment. After nearly 15 years of clinical practice, an 'outlier' event brought him back to the laboratory to answer how carnitine deficiency could lead to severe local anesthetic sensitivity that nearly cost a patient her life. In trying to model this event, Dr. Weinberg identified the benefit of lipid emulsion infusion in treating local anesthetic systemic toxicity. Returning reluctantly to the laboratory, albeit with some measure of success, Dr. Weinberg is lucky enough to preserve 50% of his professional time for the operating room where some say he still has something to offer. At home, his wife Mary and three children claim to know better.

Associate Faculty



Adam Amundson, MD, attended medical school at the University of Minnesota and residency and fellowship in regional anesthesia at Mayo Clinic in Rochester, MN. As a Mayo Clinic anesthesiology consultant, his educational interests involve the development of an online curriculum to improve preprocedural education and technical skill advancement among residents learning regional anesthesia. He has also been active in teaching ultrasound-guided workshops at the annual ASA meeting and other conferences. In his free time, he enjoys spending time with his wife and two little boys.



Gregory Applegate, DO, is an assistant professor of anesthesiology at the Case Western Reserve University School of Medicine and is an anesthesiologist at University Hospitals Case Medical Center. He received his osteopathic medical degree from the Ohio University College of Osteopathic Medicine and completed his anesthesia residency at University Hospitals Case Medical Center. Dr. Applegate completed a fellowship in regional anesthesia and acute pain medicine at Walter Reed Army Medical Center. He has participated in numerous regional anesthesia and cadaver-based anatomy workshops.



Sean Dobson MD, PhD, is an assistant professor of anesthesiology at Wake Forest University School of Medicine. He completed his residency and fellowship in regional anesthesia at Duke University Medical Center. He served in the United States Navy at Naval Medical Center Portsmouth, where he was the division officer of acute pain management assisting in the care of wounded warriors. He was deployed to Afghanistan as a forward resuscitative anesthesiologist in 2012 in support of Operation Enduring Freedom. He was chosen by the anesthesiology residents at Wake Forest to receive the 2015 Golden Apple Teaching Award.



Rahul Guha, MD, is an assistant professor of anesthesiology at University of Illinois at Chicago College of Medicine. He completed his anesthesiology residency at University of Wisconsin and regional anesthesiology and acute pain medicine fellowship at Virginia Mason Medical Center. He is board certified in anesthesiology and internal medicine.



Susan Halliday, MBChB, BSc, is a staff anesthesiologist at the University of Alberta Hospital. Having completed her undergraduate training at the University of Aberdeen, Scotland, she undertook her foundation training and anesthesiology specialty training in Glasgow and the surrounding area of the West of Scotland. She arrived in Edmonton in October 2015 to undertake a clinical fellowship in regional anesthesiology and acute pain medicine at the University of Alberta Hospital. She is an active member of the Acute Pain Services and particularly interested in educating residents and fellows. Outside of work she enjoys baking and sporting activities, in particular running, cycling, and skiing.



Daniel Maalouf, MD, MPH, is a board-certified assistant attending anesthesiologist at the Hospital for Special Surgery (HSS) and a clinical assistant professor at Cornell Medical College in New York City. He completed his residency training in 2004 at New York University Medical Center and a fellowship in regional anesthesia at HSS. Following his training at HSS, Dr. Maalouf completed a three-month fellowship at Centre Clinical in Soyaux, France. Dr. Maalouf has been involved in clinical trials involving the use of ultrasound-guided regional anesthesia since his fellowship. He has authored and co-authored numerous articles and has presented abstracts and given lectures and workshops at national and international anesthesia conferences.



Janice Man, MD, is currently a clinical instructor for the Department of Anesthesia, Perioperative and Pain Medicine at Stanford University and is board-certified in anesthesiology and pediatric anesthesiology. She completed her medical school education at the Yale University School of Medicine, residency training at the University of California, San Francisco, pediatric anesthesia fellowship training at CHOP, and her pediatric regional anesthesia fellowship at Stanford. She received the Outstanding Research Award in Acute Pain at the Society of Pediatric Pain Medicine Annual Conference in 2016. Her interests include utilization of regional anesthesia and comprehensive multimodal analgesic protocols in the reduction of opioid consumption for acute pain in pediatric patients.



Rohit Rahangdale, MD, is the associate chief of regional anesthesia at Northwestern Memorial Hospital in Chicago, IL. His research interests include adjuvants for regional anesthesia and techniques to improve safety of peripheral nerve blocks.



Rakesh Sondakoppam, MD, is on the faculty in the Department of Anesthesiology and Perioperative Medicine at the Western University in London, ON, Canada. He joined the department as faculty after completing two years of fellowship training in regional anesthesia. He is currently an active member of the regional anesthesia and acute pain service team and continues to be involved in resident and fellow training at the London Health Sciences Centre.



Heather Ting, MD, attended Dalhousie University, Halifax, Nova Scotia, followed by anesthesia residency at Memorial University in St. John's, Newfoundland. Subsequently, she moved to Edmonton, Alberta to acquire pediatric and regional anesthesia fellowships. Dr. Ting has since been practicing in Edmonton. Besides working full time, she is involved in the residency training committee for regional anesthesia at University of Alberta. Outside of my professional work, she loves travelling, scuba diving and horseback riding.



Luminita M. Tureanu, MD, FRCPSC, is an assistant professor of Anesthesiology at Northwestern University Feinberg School of Medicine in Chicago, IL. She is board certified in Anesthesiology and is a fellow of the Royal College of Physicians and Surgeons of Canada. Dr. Tureanu completed her anesthesiology residency and Chronic Pain fellowship at Cook County Hospital in Chicago, and the Regional Anesthesiology and Acute Pain Medicine fellowship at Western University, London, Canada. Her interests include teaching evidence-based ultrasound guided regional anesthesia and multimodal analgesia to residents and fellows.



Dr. Vishal Uppal, MBBS, FRCA, is Assistant Professor & Director of Regional Anesthesia Fellowship Program at Dalhousie University, Canada. He completed his Anesthesia Residency at Glasgow, UK and his fellowship in Ultrasound-guided Regional Anesthesia from University of Western Ontario in 2013. He has published on a broad range of topics in Regional Anesthesia including paravertebral blocks, spinal anesthesia, and technologies to improve needle visibility. He serves as a teaching faculty at numerous national and interna-

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.

Last Name	First Name	Role	COI	Honoraria / Expenses	Consulting / Advisory Board	Funded Research (Institution)	Royalties / Patent	Owner / Equity Position
ASRA Administrative Team		Society, CME, and Meeting Management	No					
Amundson	Adam	Associate Faculty	No					
Applegate	Gregory	Associate Faculty	No					
Buvanendran	Asokumar	CME (ex-officio)	Yes		Halyard Health			
Chan	Vincent	CME	Yes	Sonosite	Aspen Pharma, Smiths Medical			
Dillane	Derek	Faculty	No					
Dobson	Sean	Associate Faculty	No					
Franco	Carlo	Faculty	No					
Grant	Stuart	CME	No					
Gray	Andrew	Faculty	Yes				Elsevier-Saunders	
Guha	Raul	Associate Faculty	No					
Halliday	Susan	Associate Faculty	No					
Horn	Jean Louis	Faculty	Yes			Infutronic		
Kopp	Sandra	CME	No					
Maalouf	Daniel	Associate Faculty	No					
Man	Janice	Associate Faculty	No					
Nader	Antoun	Planning, Faculty	Yes			ADYNXX		
Ozelsel	Timur	Planning, Faculty	No					
Pino	Carlos	CME	No					
Rahangdale	Rohit	Associate Faculty	No					
Rosenquist	Ellen	CME	No					
Salinas	Francis	Faculty	Yes		Pacira Pharmaceuticals		Wolters Kluwer	
Sondekoppam	Rakesh	Associate Faculty	No					
Ting	Heather	Associate Faculty	No					
Tureanu	Luminita	Associate Faculty	No					
Uppal	Vishal	Associate Faculty	Yes			Recro Pharma		
Vorenkamp	Kevin	CME	No					
Weinberg	Guy	Content Contributor (LAST lecture)	Yes		ResQ Pharma			ResQ Pharma

Course Program

Saturday, November 4, 2017

10 credits

7:00 am	Registration and Breakfast	
7:15 am	Welcome and Introduction	
7:20 am	Lecture: Basic Ultrasound and Needling Approaches	Andrew T. Gray, MD, PhD
7:40 am	Break and Group Assignment Learners will be in small working groups categorized as A or B. The course structure enables all learners to address each focused content area via both hands-on live model scanning and cadaver needling.	
8:00 am	<i>Group A: Hands-On Live Model Scanning (sonoanatomy)</i> <i>Group B: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i>	
	Upper Extremity Above Clavicle: Interscalene, Supraclavicular Upper Extremity Below Clavicle: Infraclavicular, Axillary, Terminal Nerves Upper Arm, Terminal Nerves Lower Arm	
9:35 am	Break to Next Station (Group A only)	
9:50 am	<i>Group A: Hands-On Live Model Scanning (sonoanatomy)</i> <i>Group B: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i>	
	Lower Extremity Supine Position: Femoral, Anterior Sciatic, Adductor Canal, Ankle Lower Extremity Prone Position: Sciatic, Popliteal	
11:25 am	Break to Lecture	
11:30 am	Lunch Lecture: Ultrasound Physics, Artifacts, Pitfalls, and Complications Part 1	Andrew T. Gray, MD, PhD
12:25 pm	Break to Hands-On	
12:30 pm	<i>Group A: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i> <i>Group B: Hands-On Live Model Scanning (sonoanatomy)</i>	
	Upper Extremity Above Clavicle: Interscalene, Supraclavicular Upper Extremity Below Clavicle: Infraclavicular, Axillary, Terminal Nerves Upper Arm, Terminal Nerves Lower Arm	
2:05 pm	Break to Next Station (Group B only)	
2:20 pm	<i>Group A: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i> <i>Group B: Hands-On Live Model Scanning (sonoanatomy)</i>	
	Lower Extremity Supine Position: Femoral, Anterior Sciatic, Adductor Canal, Ankle Lower Extremity Prone Position: Sciatic, Popliteal	
3:55 pm	Break to Lecture	
4:00 pm	Lecture: Clinical Applications and Evidence Based Medicine in Ultrasound Regional Anesthesia for Upper and Lower Extremity Blocks	Francis Salinas, MD
6:00 pm	Day 1 Q&A: Upper and Lower Extremity Blocks	
6:15 pm	Day 1 Adjournment	



7:00 am	Breakfast Lecture: Ultrasound Physics, Artifacts, Pitfalls, and Complications Part 2	Andrew T. Gray, MD, PhD
7:30 am	Lecture: Sonoanatomy and Techniques for Truncal and Parvertebral Blocks	Derek Dillane, MBBCh, CARCSI
8:25 am	Break to Hands-On	
8:30 am	<i>Group A: Hands-On Live Model Scanning (sonoanatomy)</i> <i>Group B: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i>	
	Ilioinguinal & Iliohypogastric, Transversus Abdominis Plane (TAP), Rectus Sheath Block, Quadratus Lumborum, Paravertebral Blocks, Spine	
10:05 am	Break to Next Area (Group A only)	
10:20 am	<i>Group A: Cadaver and Meat Phantom Needling (single shot and selected continuous catheter techniques) and Anatomy Station</i> <i>Group B: Hands-On Live Model Scanning (sonoanatomy)</i>	
	Ilioinguinal & Iliohypogastric, Transversus Abdominis Plane (TAP), Rectus Sheath Block, Quadratus Lumborum, Paravertebral Blocks, Spine	
11:55 am	Break to Lectures	
12:10 pm	Lunch Lecture: Local Anesthetic Systemic Toxicity (LAST)	Rahul Guha, MD
1:10 pm	Day 2 Q&A	Antoun M. Nader, MD
1:30 pm	Billing and Documentation in Different Jurisdictions	Jean-Louis Horn, MD
2:00 pm	Closing Remarks and Final Adjournment	

Continuing Medical Education/Continuing Professional Development

To receive your CME certificate:

1. Access the online system before November 20th by visiting www.surveymonkey.com/r/ASRACCRA17.
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 approximately 3 weeks after submission.
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 16.5 *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	10
Sunday	6.5
Total Credits:.....	16.5

The American Board of Anesthesiology® MOCA®

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 (34567890) during the on-line 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, but ASRA will no longer report credits to the ABA, which will then be the individual participant's responsibility.

ASRA-ASA Ultrasound-Guided Regional Anesthesia (UGRA) Education and Clinical Training Portfolio

The Ultrasound-Guided Regional Anesthesia Education and Clinical Training Portfolio is a joint ASRA - ASA initiative designed for anesthesiologists who wish to distinguish themselves in the field and provide evidence of training and experience. The portfolio guides participants through a comprehensive educational and training experience that fulfills current recommendations for ultrasound-guided regional anesthesia (UGRA). This ASRA course has been approved for knowledge base and technical skills components of the portfolio. For more information and approved sessions, visit the [ASA website](#).



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

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

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.

ASRA would like to thank the following companies
for their generous support.

Educational Grants

B. Braun Medical
FUJIFILM SonoSite
GE Healthcare

In-Kind Support — Durable Equipment

B. Braun Medical
FUJIFILM SonoSite
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In-Kind Support — Disposable Supplies

B. Braun Medical

Guidelines Regarding Industry Representative Participation and In-Kind Support

Industry Support

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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.

ASRA



2018

World Congress on

REGIONAL ANESTHESIA & PAIN MEDICINE

ASRA's 43rd
Annual Regional Anesthesiology
& Acute Pain Medicine Meeting

#ASRAWorld18

April 19-21, 2018
New York Marriott Marquis, New York City, USA



www.asra.com