



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*

3 Penn Center West | Suite 224 | Pittsburgh, PA 15276 | www.asra.com

ASRA



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

Saturday, November 3—Sunday, November 4, 2018

Northwestern Simulation, 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 attendees in small hands-on working groups
- World-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:

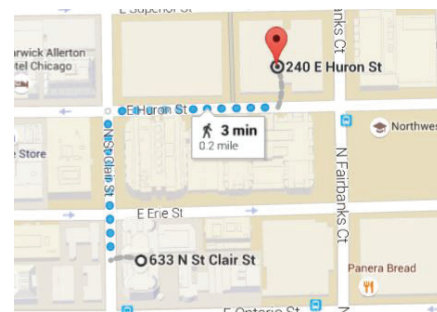
- Discuss the basic principles of ultrasound imaging, equipment, functionality, aseptic technique, and local anesthetic selection for ultrasound-guided regional anesthesia.
- Identify and describe the surface and ultrasound anatomy.
- Apply peripheral nerve block ultrasound scanning and needling techniques.
- 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.

Bonus educational materials are available. [View recorded lectures](#) from last year's course.

Top 5 Course Essentials



1 Locations

Educational Sessions

Northwestern Simulation
240 East Huron Street
Chicago, IL 60611
Tel: 312.503.4034

Recommended Hotel

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

2 Northwestern Simulation Security Access

Everyone entering the Northwestern Simulation 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 Northwestern Simulation 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 **ASRACCRA18**. 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. You also can view [recorded lectures](#) from last year's course.

4 Evaluations and CME Certificates

Your opinion matters! Evaluate sessions and faculty and obtain your CME certificate by accessing the online system before **November 19th** at www.surveymonkey.com/r/ASRACCRA18. See page 14 for more information on CME credits and certificates.

5 Attendance Policies

Attendee cancellation and refunds

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

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.

Attendee no-shows

No refunds or credits will be given to "no shows."

Attendee guests/accompanying persons

All event activities (including educational sessions, meal functions, exhibit hall, etc.) are exclusively reserved for registered attendees. Badges provided at registration are required for entrance into all functions and will be strictly enforced. Exceptions to this are as follows.

- Educational session halls: Only children who are held or harnessed (no strollers are permitted) may accompany a registered attendee. Children may not occupy a seated spot. If a child becomes a distraction to attendees, the infant must be removed from the room immediately. No children, under any circumstance, are permitted in workshops or PBLDs.
- Exhibit hall: Infant children who are held or harnessed (no strollers are permitted) may accompany a registered attendee at any time. In addition, adult children ages 21 and over may purchase a guest ticket to accompany a registered attendee during the opening network reception only.
- Saturday celebration: All children are welcome to the Saturday night celebration. Tickets must be purchased for any children over 2 years old.

- Miscellaneous: Lactation rooms will be available whenever possible. Please see program guide or registration desk for location. Please see hotel concierge for additional childcare options.

There will be no exceptions to the above for children, toddlers, or teens without prior written approval. Please send any requests to asrameetings@asra.com.

Photography and recording privileges

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 pre-authorized 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 modification or cancellation

ASRA reserves the right to modify the event's schedule or program, as necessary. ASRA also 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.

Mailing list and attendee contact information

ASRA provides an attendee mailing list containing name, degree, title, organization, and mailing address to industry partners and fellow attendees; email addresses and telephone numbers are not provided. Attendees may opt-out of this list when registering. ASRA will also use a lead retrieval system in the exhibit hall. Participant badges will contain the following information: name, degree, organization, mailing address, telephone number, email address, and registration type. Attendees have the option to allow exhibitors to scan their badge or not.

Liability and insurance

The American Society of Regional Anesthesia and Pain Medicine and meeting organizers cannot accept liability for personal accidents or loss of or damage to private property of participants, either during or indirectly arising from the meeting. Participants are advised to take out their own personal health and travel insurance for their trip.

Americans with Disabilities Act (ADA)

ASRA fully complies with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity has a special need, please contact us at: American Society of Regional Anesthesia and Pain Medicine, 3 Penn Center West, Suite 224, Pittsburgh, PA 15276, asrameetings@asra.com, Toll-free in USA: 855.795.ASRA, Tel: 412.471.2718

ASRA Leadership

Leadership

President: Asokumar Buvanendran, MD

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Immediate Past President: Oscar A. de Leon-Casasola, MD

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Stavros Memtsoudis, MD

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David Provenzano, MD

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Carlos Pino, MD, Vice Chair

Ki Jinn Chin, MBBS, FANZCA, FRCPC

Stuart Grant, MD

Andrea Nicol, MD, MS

Kevin Vorenkamp, MD

Brian Sites, MD (ex-officio)

Asokumar Buvanendran, MD (ex-officio)

Scientific/Education Planning Committee

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

Course Faculty



Derek Dillane, MB BCh, FCARCSI, is an associate professor at University of Alberta in Edmonton, Canada, where he completed a clinical and research fellowship in regional anesthesia in 2006. 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 numerous ultrasound workshops in North America and internationally. He is a past chair of the Canadian Anesthesia Society Regional Anesthesia Section.



Carlo Franco, MD, is the chairman of regional anesthesia at JHS Hospital of Cook County Chicago, IL, and professor of anesthesiology and anatomy at Rush University Medical Center in Chicago. 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, 1985-86 and 1988-89. Dr. Franco completed his anesthesiology residency at Sinai Hospital of Detroit in Detroit, MI, 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 blocks.



Stuart Grant, MBChB, MMCI, is a professor of anesthesiology at Duke University Medical Center in Durham, NC. Originally from Glasgow, Scotland, he has worked with residents and fellows at Duke University teaching regional anesthesia for over 15 years. He has published over 50 papers and book chapters on regional anesthesia and authored a textbook on ultrasound guided regional anesthesia now on its second edition. He currently is investigating new technologies for analgesia including ultrasound guided peripheral nerve stimulation.



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 and two textbooks on ultrasound-guided regional anesthesia and now pursues investigations on safety and efficacy of new regional anesthetic techniques.



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 students and colleagues locally, nationally, and internationally.



Vivian Ip, MB, ChB, FRCA, is an associate clinical professor of anesthesia at the University of Alberta Hospital in Edmonton, Canada. She is one of the leaders of the Fentanyl Crisis Campaign known as Doctors against Tragedies. She was previously the director of the Ambulatory Regional Anesthesia Program at the U of A Hospital. She received her anesthesia training in London, UK. Subsequently, she undertook two fellowships in Canada: regional anesthesia and acute pain management and ambulatory anesthesia. She previously served in the ASRA Research Committee, and is currently the associate editor, regional anesthesia, for the ASRA Newsletter Committee. She is also active in research and her research interests include regional nerve block catheters, airway, and green anesthesia.



Antoun M. Nader, MD, is a professor in the department of anesthesiology and orthopedics at the Feinberg School of Medicine, 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, 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 Anesthesiologists, 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, 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. Özelsel, 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 whom are his main passion in life when he is not at work.



Francis Salinas, MD, has been in private practice since 2015 after spending 17 years on the teaching faculty at Virginia Mason Medical Center in Seattle, WA. He is board certified in anesthesiology, internal medicine, and perioperative transesophageal electrocardiography. He was fortunate to learn regional anesthesia from the giants of the specialty, such as Dr. Gale Thompson, Dr. Manni Batra, Dr. Mike Mulroy, and Dr. Joseph Neal. Dr. Salinas believes that regional anesthesia provides tremendous perioperative benefits to patients in terms of improved analgesia, enhanced functional recovery, and contributes significantly to decreases in perioperative morbidity and even mortality. By providing state-of-the-art analgesia, anesthesiologists can truly contribute to the perioperative surgical home and clearly increase the visibility and importance as true perioperative physicians.



Rakesh Sondakoppam, MD, is currently working as a faculty in the department of anesthesiology and pain medicine at the University of Alberta, Edmonton, Canada. He is an active member of the regional anesthesia and acute pain service team and continues to be involved in resident and fellow training at the University of Alberta Health Sciences.

Associate Faculty



Adam Amundson, MD, attended residency and fellowship in regional anesthesia at Mayo Clinic in Rochester, MN. As a Mayo Clinic anesthesiology consultant, his educational interests involve point-of-care ultrasound, research in regional anesthesia, and orthopedic perioperative surgical home improvements. He is very active in resident and fellow regional anesthesia education and teaching ultrasound-guided workshops at ASRA and American Society of Anesthesiology meetings. In his free time, he enjoys spending time with his wife, two boys, and a new baby girl.



Sara Cheung, MBBS, is an associate consultant in Pamela Youde Nethersole Eastern Hospital in Hong Kong. Graduating from the University of Hong Kong in 2004, she became a fellow of the Hong Kong College of Anesthesiologists in 2011. In 2014, she completed a regional anesthesia fellowship program at the University of Alberta, during which she acquired a lot of experience on peripheral and neuraxial blocks. She authored and co-authored a few book chapters and peer-reviewed letters on regional anesthesia. Apart from being the associate faculty for the ASRA UGRA cadaver course, she has also instructed in the local workshops and annual scientific meetings, as well as the International Symposium on Spine and Paravertebral Sonography.



Sean Dobson MD, PhD, is an assistant professor of anesthesiology at Wake Forest University School of Medicine in Winston-Salem, NC. He completed his residency and fellowship in regional anesthesia at Duke University Medical Center in Durham, NC. He served in the United States Navy at Naval Medical Center Portsmouth, VA, 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.



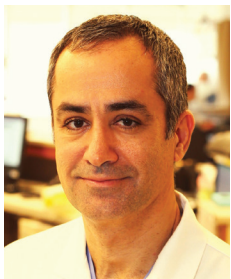
Rahul Guha, MD, is an assistant professor of anesthesiology at University of Illinois at Chicago College of Medicine. He completed his anesthesiology residency at University of Wisconsin in Madison and and regional anesthesiology and acute pain medicine fellowship at Virginia Mason Medical Center in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



Hari Kalagara, MD, is passionate about regional anesthesia and has completed a regional anesthesia fellowship at Cleveland Clinic in Cleveland, OH. He has attained European Diploma in Regional Anaesthesia (EDRA) by the European Society of Regional Anesthesia, and was awarded as the ASRA resident/fellow of the year for 2017. Dr. Kalagara organizes and serves as primary activity director for the cadaveric regional anesthesia ultrasound workshops held at Cleveland Clinic. He is convinced of the benefits of regional anesthesia for pain relief for various surgical procedures and always tries to incorporate regional anesthesia for patient care. Dr. Kalagara is currently working as assistant professor at the University of Alabama at Birmingham with special interest in regional anesthesia.



Carole Lin MD, attended residency at UCLA in California and completed her pediatric fellowship at Boston Children’s Hospital in Massachusetts. Dr. Lin has been faculty at Boston Children’s Hospital; Texas Children’s Hospital in Houston, TX; and Connecticut Children’s Hospital in Hartford, CT. She is currently an assistant professor for the department of anesthesia, perioperative and pain medicine at Stanford University, CA. Currently, she is also in the pediatric regional fellowship at Stanford. Dr. Lin is fortunate to be learning anesthesia from Dr. Chi-Ho Ban Tsui, professor of anesthesiology, perioperative and pain medicine at Stanford University Medical Center. Outside of work, she has a great family that loves to travel and appreciates art.



Daniel Maalouf, MD, MPH, is a board-certified assistant attending anesthesiologist at Hospital for Special Surgery (HSS) and a clinical assistant professor at Cornell Medical College in New York, NY. 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 UGRA 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.

Tariq Malik, MD, has a special interest in ultrasound guided injection for acute and chronic pain management. Dr. Malik has been teaching residents and fellows for more than a decade.



Janice Man, MD, is currently a clinical instructor for the Department of Anesthesia, Perioperative and Pain Medicine at Stanford University, Stanford, CA, and is board-certified in anesthesiology and pediatric anesthesiology. She completed her medical school education at the Yale University School of Medicine, New Haven, CT; residency training at University of California, San Francisco; pediatric anesthesia fellowship training at Children’s Hospital of Philadelphia, Philadelphia, PA; 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.



Neal Mehta, MD, is a board-certified assistant professor of anesthesiology at Rush University Medical Center in Chicago, IL. After growing up in the Bay Area, California, he attended undergrad at UC San Diego followed by medical school at University of Utah in Salt Lake City. He completed his anesthesiology residency at Loyola University Medical Center in Chicago and regional anesthesiology fellowship at University of Kansas Medical Center in Kansas City.



Mastoora Nasiri, MD, grew up in the bay area, California, and attended Stanford University for her undergraduate education. She left California for a short while to complete medical school in upstate New York. She returned from New York for residency, which she completed at the University of California, San Francisco in 2017. She most recently completed her fellowship in regional anesthesiology and acute pain medicine at Stanford this past summer, 2018. Currently she is faculty within Stanford's department of anesthesiology.



Luminita M. Tureanu, MD, FRCPC, 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, ON, Canada. Her interests include teaching evidence-based ultrasound guided regional anesthesia and multimodal analgesia to residents and fellows.



Vishal Uppal, MBBS, FRCA, is assistant professor and director of the Regional Anesthesia Fellowship Program at Dalhousie University, Halifax, NS, Canada. He completed his anesthesia residency at Glasgow, UK, and his fellowship in ultrasound-guided regional anesthesia from University of Western Ontario London, ON, 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 international ultrasound-guided regional anesthesia workshops.



Ophillia Ziwenga, MBChB(Hons), FRCA, FCARCSI, is a staff anesthesiologist and assistant clinical professor at the University of Alberta in Edmonton, Canada, where they have a well-established acute pain and regional anesthesia group, of which she is an active member. In addition to regional anesthesia, Dr. Ziwenga is the clinical lead in patient safety in their anesthesiology and pain medicine department. She graduated from the University of Zimbabwe in 1997 and completed her training in anesthesia in the United Kingdom in 2007. Dr. Ziwenga joined the University of Alberta as a regional anesthesia fellow in 2008 and subsequently took up a staff anesthesiologist position the following year, 2009. Her time out of the operating room is spent on travelling, a "bit of exercise," and figuring out and trying to make some "life prolonging" cuisines.

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 (Individual)	Funded Research (Institution)	Royalties / Patent	Off-Label Usage
ASRA Administrative Team (Borster, Oliver, Simper, Stengel)		Society, CME, Meeting Management	No						No
Amundson	Adam	Associate Faculty	No						No
Buvanendran	Asokumar	CME (ex-officio)	Yes		Avanos Medical, Inc.				No
Chan	Vincent	CME	Yes	Aspen Pharma, B. Braun Medical, SonoSite	Smiths Medical				No
Cheung	Sara Suk Kwan	Associate Faculty	No						No
Chih	Ki-Jinn	CME	No						No
Dillane	Derek	Faculty	No						No
Dobson	Sean	Associate Faculty	No						No
Franco	Carlo	Faculty	No						No
Grant	Stuart	Faculty, CME	Yes		BBraun, Avanos Medical, Inc.		SPR Therapeutics, Avanos Medical, Inc.		No
Gray	Andrew	Faculty	Yes					Elsevier-Saunders	No
Guha	Rahul	Associate Faculty	No						No
Horn	Jean-Louis	Faculty	Yes			Pacira	Infutronic		No
Ip	Vivian	Faculty	No						No
Kalagara	Hari	Associate Faculty	No						No
Lin	Carole	Associate Faculty	No						No
Maalouf	Daniel	Associate Faculty	No						No

Last Name	First Name	Role	COI	Honoraria / Expenses	Consulting / Advisory Board	Funded Research (Individual)	Funded Research (Institution)	Royalties / Patent	Off-Label Usage
Malik	Tariq	Associate Faculty	No						No
Man	Janice	Associate Faculty	No						No
Mehta	Neal	Associate Faculty	No						No
Nader	Antoun	Faculty	No						No
Nasiri	Mastoora	Associate Faculty	No						No
Nicol	Andrea	CME	No						No
Özelsel	Timur	Chair, Faculty	No						No
Pino	Carlos	CME	Yes		Mainstay Medical				No
Salinas	Francis	Faculty	Yes					Wolters Kluwers, Book royalties for A Practical Approach to Regional Anesthesia and Acute Pain Medicine, 4th and 5th Editions	No
Sondekoppam	Rakesh	Associate Faculty	No						No
Tureanu	Luminita	Associate Faculty	No						No
Uppal	Vishal	Associate Faculty	Yes				Was PI for Recro Pharma (Devault, PA) funded clinical trial on intravenous meloxicam		No
Vorenkamp	Kevin	CME	No						No
Ziwenga	Ophilia	Associate Faculty	No						No

Course Program

Saturday, November 3, 2018

10.5 credits

7:00 am	Registration and Breakfast	
7:15 am	Welcome and Introduction	Timur Özelsel, MD
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.	
7:50 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>	
	Upper Extremity Above Clavicle: Interscalene, Supraclavicular, Suprascapular Upper Extremity Below Clavicle: Infraclavicular, Axillary, Terminal Nerves Upper Arm, Terminal Nerves Lower Arm Upper Extremity Station 8: Name That Block - Challenge the Faculty	
9:35 am	Break to Next Station (Group A only)	
9:45 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, IPAC, Ankle Lower Extremity Prone Position: Sciatic, Popliteal Lower Extremity Station 8: Name That Block - Challenge the Faculty	
11:30 am	Break to Lecture	
11:35 am	Lunch Lecture: Ultrasound Physics, Artifacts, Pitfalls, and Complications Part 1	Andrew T. Gray, MD, PhD
12:30 pm	Break to Hands-On	
12:35 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, Suprascapular Upper Extremity Below Clavicle: Infraclavicular, Axillary, Terminal Nerves Upper Arm, Terminal Nerves Lower Arm Upper Extremity Station 8: Name That Block - Challenge the Faculty	
2:10 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, IPAC, Ankle Lower Extremity Prone Position: Sciatic, Popliteal Lower Extremity Station 8: Name That Block - Challenge the Faculty	
4:05 pm	Break to Lecture	
4:10 pm	Review of Upper and Lower Extremity Blocks with Live Demonstration	Francis Salinas, MD
5:40 pm	Day 1 Q&A: Upper and Lower Extremity Blocks	
6:00 pm	Day 1 Adjournment	

Sunday, November 4, 2018

6.75 credits

7:00 am	Breakfast Lecture: Ultrasound Physics, Artifacts, Pitfalls, and Complications Part 2	Andrew T. Gray, MD, PhD
7:30 am	Break to Hands-On	
7:35 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, Erector Spinae Plane Block, PECs/Serratus Plane Truncal/Spine Station 8: Name That Block - Challenge the Faculty	
9:20 am	Break to Next Area	
9:30 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, Erector Spinae Plane Block, PECs/Serratus Plane Truncal/Spine Station 8: Name That Block - Challenge the Faculty	
11:15 am	Break to Lunch and Lectures	
11:20 am	Lunch Lecture: Review of Truncal/Spinal Blocks with Live Demonstration	Derek Dillane, MD
12:05 pm	Billing and Documentation in Different Jurisdictions	Jean-Louis Horn, MD
12:35 pm	Local Anesthetic Systemic Toxicity (LAST)	Rahul Guha, MD
1:30 pm	Day 2 Q&A	Antoun Nader, MD
2:00 pm	Closing Remarks and Final Adjournment	Antoun Nader, MD

Bonus educational materials are available. [View recorded lectures](#) from last year's course.

Continuing Medical Education/Continuing Professional Development

To receive your CME certificate:

1. Access the online system before November 19th by visiting www.surveymonkey.com/r/ASRACCRA18.
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 17.25 *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	10.5
Sunday	6.75
Total Credits:.....	17.25

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 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, 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
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In-Kind Support — Durable Equipment

FUJIFILM Sonosite
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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 is restricted to knobology only.
 - 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.



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Abstract submission deadline: Jan 7
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