



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



Introduction to Perioperative Point-of-Care Ultrasound

Saturday, December 1—Sunday, December 2, 2018

Westin Chicago River North | Chicago, Illinois

#ASRAPoCUS

COURSE GUIDE

Jointly provided with:

usabcd
UltraSound Airway Breathing Circulation Dolor

Course Overview

- Earn 28.25 CME credits by completing the eLearning provided by USabcd and attending the weekend course.
- Hands-on scanning sessions with concise lectures to summarize content
- World-renowned experts, low attendee-to-instructor ratio
- Personalized learning with ample time for Q&A and faculty feedback
- Case discussions and pre/post testing to assess learning
- Basic Focused Assessed Transthoracic Echocardiography (FATE) certification.

This course fills a much-needed educational gap as well as prepares physicians to be leaders in patient safety and perioperative ultrasonography by providing a comprehensive introduction to several PoCUS applications of relevance to clinical regional anesthesiologists, including the identification of clinical questions to be answered, technical performance aspects, and interpretation of results.

With a “flipped classroom” format, practical hands-on sessions, and internationally renowned faculty, you will learn useful information and skills that will add immediate benefit in clinical practice. The comprehensive and learner-centered curriculum includes:

15 Hour of Mandatory eLearning

Course curriculum includes a suite of eLearning modules provided by joint educational provider USabcd. The eLearning is an integral part of the program and must be successfully completed prior to attending the weekend course in Chicago.

Lectures

Because instructional content is delivered in advance via the eLearning modules, onsite lectures will be succinct and summarize key information; allowing more time for the hands-on practice with expert faculty.

Hands-on

For each session, groups rotate to a new faculty mem-

ber, model, and machine to allow for exposure to different equipment, scanning and teaching styles, as well as sonoanatomy of various models. There are 5 participants per station, 1-2 faculty per station, and “floating” experts for extra support throughout. Each hands-on session will reinforce previously learned skills, building a solid foundation throughout the weekend.

Review

In addition to real-time feedback during the hands-on sessions, the program offers ample time for formal and informal Q&A with fellow attendees and faculty.

Basic FATE Certification (must complete entire program through Sunday to be certified)

In addition to pre/post-testing, participants will also earn Basic Focus Assessed Transthoracic Echocardiography (FATE) certification; an internationally endorsed format with a 25-year track record and over 400 completed courses.

Educational objectives

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

- Integrate up-to-date PoCUS skills into daily clinical practice as the “21st-Century Stethoscope.”
- Improve management of the critical patient or patient in shock.
- Diagnose acute respiratory complications of regional anesthesia such as pneumothorax and diaphragmatic paresis.
- Evaluate for patients with interstitial syndrome or pleural effusions.
- Manage challenging airway patients.
- Assess and diagnose patients with cardiopulmonary changes such as hypotension, hypoxia, and shock.
- Assess NPO status of patients.
- Assess for intra-abdominal fluid and abdominal compartment syndrome via the Focused Assessment with Sonography for Trauma (FAST) exam.
- Utilize a variety of cutting-edge Point-of-Care Ultrasound machines.
- Discuss how PoCUS can add value to your practice in the setting of the Affordable Care Act and Perioperative Surgical Home (PSH) model.
- Discuss the role for Focused Cardiac Ultrasound in Advance Cardiac Life Support to help with diagnosis and management of patients in a pulseless electrical activity (PEA) arrest.

Target audience

The course is designed for the physician learner wanting to gain a comprehensive understanding of perioperative point-of-care ultrasound applications including identification of clinical questions to be answered, technical performance aspects, and interpretation of results. The course is designed for anesthesiologists, hospitalists, intensivists, and those practicing emergency medicine.

Top 5 Course Essentials

1

Location

The Westin Chicago River North
320 North Dearborn Street, Chicago, IL, 60654
Tel: 1.312.744.1900

[Take a tour of the hotel](#)

The ASRA registration desk
will be located in the
Riverfront Ballroom.

2

eLearning and Presentations

Materials are available to participants prior to, during, and after the course, up to one year, for educational purposes only. Access to particular content is provided based on registration and is password protected. Distribution is limited and none of the materials should be further distributed or reproduced.

- **eLearning:** See page 12 for details on available modules and access codes.
- **Presentations:** Visit the [ASRA website](#) and use password **ASRAPoCUS18** when prompted.

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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 **December 17th** at www.surveymonkey.com/r/ASRAPOCUS18DEC. See pp. 16-17 for more information on CME credits and certificates.

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Basic FATE Certification

Participants completing the mandatory eLearning and attending the entire weekend course will also earn Basic Focus Assessed Transthoracic Echocardiography (FATE) certification; an internationally endorsed format with a 25-year track record and over 400 completed courses. Basic FATE certificates will be issued as follows.

- **eLearning Completed Prior to Course:** Certificates Issued at Registration Desk, Sunday, December 2nd at 12:15 pm.
- **eLearning NOT Completed Prior to Course:** Certificates Mailed through December 17, 2018 (*additional \$100 fee applies*)

For those failing to complete the mandatory eLearning prior to the course, a two-week extension will be provided to do so. Once the eLearning is completed, please send an email to asrameetings@asra.com to request your Basic FATE certificate. An administrative and certification late fee of \$100 will be charged. Basic FATE certificates will not be issued after this date.

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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.”

(Continued on next page.)

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 Board of Directors

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Echocardiography is a well-established skill set within the anesthesia profession; with expanding use in the perioperative setting through Basic Focus Assessed Transthoracic Echocardiography (FATE) training. All ASRA course faculty are experts in their field, with several also having either testamur status or certification via the National Board of Echocardiography, as included below.

Scientific/Education Planning Committee

Jan Boublik, MD, PhD
Stephen Haskins, MD
Anahi Perlas, MD, FRCPC

eLearning Curriculum Authors

Thomas Fichtner Bendtsen, MD, PhD; USabcd, Aarhus University Hospital, Aarhus, Risskov, Denmark
Lars Knudsen, MD, PhD; USabcd, Aarhus University Hospital, Aarhus, Risskov, Denmark
Anahi Perlas, MD, FRCPC; Toronto Western Hospital, Toronto, Canada
Erik Sloth, MD, PhD; USabcd, Aarhus University Hospital, Aarhus, Risskov, Denmark

Course Faculty



Walid Alrayashi, MD, is a pediatric anesthesiologist at Boston Children's Hospital in Boston, MA, with special interest in acute pain and the use of ultrasonography in perioperative care.



Jan Boublik, MD, PhD, is an assistant professor of anesthesiology at Stanford University in California. He graduated medical school and received a PhD in bioengineering from Medizinische Hochschule in Hannover, Germany, including two years as a visiting scientist at the Massachusetts Institute of Technology, Division of Health Sciences and Technology, and he completed his residency at Brigham and Women's Hospital in Boston, MA. His research interests include PoCUS, functional outcomes after surgery, innovative technologies, and techniques in anesthesia. He currently serves on the ASRA Membership Committee and chairs ASRA's Perioperative Point-of-Care Ultrasound Special Interest Group.



Nibras Bughrara, MD, is assistant professor of anesthesiology and critical care medicine, surgery and internal medicine. He completed his critical care medicine fellowship and advanced perioperative echocardiography training at Johns Hopkins School of Medicine. Currently he is the division chief of anesthesia critical care and the founder and director of the critical care echocardiography program at Albany Medical College in Albany, NY. Dr. Bughrara is the principal investigator (PI) of an ongoing multicenter study on blending focused transthoracic echocardiography learning in existing anesthesiology residency training programs and the PI of a multicenter study on performing focused echocardiographic evaluation in life support for in-hospital cardiac arrest patients.



Vincent Chan, MD, FRCPC, FRCA, is a professor in the department of anesthesia at the University of Toronto, ON, Canada. He served as president of ASRA from 2009 to 2011 and received the Gaston Labat Award in 2016 and the Distinguished Service Award in 2017. He also has received the Gold Medal Award by the Canadian Anesthesiologists' Society in 2009 and the Carl Koller Award from the European Society of Regional Anaesthesia and Pain Therapy in 2016. Dr. Chan received his bachelor's of science degree and MD from McGill University in Montreal, QC, Canada, and he obtained postgraduate training in anesthesiology at the University of Toronto. Dr. Chan also serves on the editorial board of Anesthesiology and Regional Anesthesia Pain Medicine. He has published more than 200 peer-reviewed articles, 14 book chapters, and 80 scientific abstracts. He has performed 46 visiting professorships in North America and abroad and given more than 120 international and 90 domestic lectures. In addition, he has trained more than 40 postgraduate clinical and research fellows during his academic career.



Stephanie Cheng, MD, is an attending anesthesiologist at the Hospital for Special Surgery (HSS) in New York. She completed her undergraduate studies at Cornell University Medical School at NYU School of Medicine, her residency at Yale/New Haven Hospital in Connecticut, and her regional anesthesiology and acute pain fellowship at HSS. She is a FATE instructor and an advocate for ultrasound-guided diagnosis.



Johanna Blair de Haan, MD, attended the University of Texas Health Science Center (UTHSC) in Houston, TX, for medical school and residency training in anesthesiology, including a year as chief resident. She then completed an additional year of fellowship training in regional anesthesiology, acute pain medicine, and perioperative ultrasound at the same institution. She is now an assistant professor of anesthesiology at UTHSC-Houston and practices at Memorial Hermann Hospital in the Texas Medical Center.



Sean Garvin, MD, is board certified in anesthesiology, critical care medicine and perioperative TEE. After completing residency at Weill Cornell Medical College, he went on to complete fellowships in critical care and cardiothoracic anesthesia at Brigham and Women's Hospital. Dr. Garvin currently serves as the medical director of the Orthopedic Special Care Unit at the Hospital for Special Surgery and has been involved in numerous perioperative cardiac ultrasound research projects and educational conferences.



James Stewart Green, MBBS, FRCA, is a clinical assistant professor at the University of Alberta Hospital in Edmonton, AB, Canada. Dr. Green completed medical school and postgraduate training in anesthesia at Newcastle-u-Tyne and Glasgow in the United Kingdom before receiving his fellowship training in regional anesthesia under the guidance of Dr. Ban Tsui at the University of Alberta. Dr. Green is currently practicing as a clinical anesthetist at the University of Alberta Hospital, with specialist clinical interests in regional anesthesia and neuroanesthesia. Research interests include anesthesia and cancer survival, regional anesthesia, and ultrasound of the head and neck.



Stephen Haskins, MD, is a regional anesthesiologist trained at the Hospital for Special Surgery in New York, NY. During his fellowship, Dr. Haskins developed an interest in PoCUS, specifically focused cardiac ultrasound, lung ultrasound, abdominal ultrasound and gastric ultrasound. Dr. Haskins is the co-founder and co-chair of ASRA Perioperative PoCUS Special Interest Group (SIG). He is also lead author for Point-of-Care Ultrasound (PoCUS) for the Regional Anesthesiologist and Pain Specialist Review Series in Regional Anesthesia and Pain Medicine Journal (RAPM).



Nadia Hernandez, MD, completed her anesthesiology residency at the Icahn School of Medicine at Mount Sinai Health System in New York, NY, followed by fellowship training in regional anesthesia and acute pain medicine. She moved back home to Texas where she serves as an assistant professor of anesthesiology at the University of Texas (UT) at Houston McGovern School of Medicine. After one year, Dr. Hernandez revamped the regional anesthesiology fellowship and was promoted to director of regional anesthesiology at UT Houston as well as program chair of the regional anesthesia and perioperative ultrasound fellowship. She is one of the co-founding members of the ASRA Perioperative Point-of-Care Ultrasound Special Interest Group.



Wolf Kratzert, MD, was born in Germany and graduated from Hamburg University Medical School. He completed his residency in anesthesiology at University of California San Diego and subspecialized in critical care medicine and cardiothoracic anesthesiology at Columbia University in New York, and Stanford University in California. From 2010 until 2014, he served as faculty in the department of anesthesiology and critical care at the University of New Mexico, NM, and held the position as director of the cardiothoracic intensive care unit and perioperative echocardiography. In 2014, he joined the department of anesthesiology and perioperative medicine at David Geffen School of Medicine at UCLA, where he holds the position of assistant clinical professor. He spends his clinical time as part of the cardiothoracic and critical care divisions in the department, with focus on the perioperative management of patients with advanced heart failure, adult congenital heart disease, and cardiothoracic surgery. He is board certified in anesthesiology, critical care medicine, and advanced perioperative echocardiography, with expertise in transesophageal and transthoracic echocardiography, as well as critical care ultrasound.



Richelle Kruisselbrink, MD is a member of the department of anesthesia at Toronto Western Hospital in Toronto, ON, Canada. Her clinical and research interests include regional anesthesia and the perioperative applications of point-of-care ultrasound. Dr. Kruisselbrink recently obtained "Testamur" status at the National Board of Echocardiography by successfully completing the Examination of Special Competence in Adult Echocardiography. She is very active in education both within Toronto and internationally.



William Manson, MD, is an anesthesiologist at the University of Virginia, VA. He originally trained in emergency medicine, and completed a fellowship in emergency ultrasound. Following ultrasound training, he became the associate director and then director of emergency ultrasound in the department of emergency medicine at Emory University. Then, he undertook training in anesthesiology at UT Southwestern / Parkland in Dallas, TX, followed by a regional anesthesiology fellowship at the University of Virginia. Dr. Manson's research focus is perioperative point-of-care ultrasound.



Rana Movahedi, MD; is a clinical associate of anesthesiology at Keck School of Medicine of USC in Los Angeles, CA. Currently she is section director for regional anesthesiology and associate program director for regional anesthesiology and acute pain medicine fellowship. Dr. Movahedi completed residency at Cedar- Sinai Hospital in Los Angeles, CA and a regional anesthesiology fellowship at the Hospital for Special Surgery, in New York, NY.



Jemiel Nejm, MD, is a board certified anesthesiologist who specializes in critical care medicine. He trained entirely on the west coast and upon completion of his training at the University of California San Francisco, he attended in the operating rooms there. Being a California explant, Dr. Nejm exudes calm even when faced with challenging situations. Dr. Nejm's main interests include echocardiography and the use of ultrasound in acute situations.



Clemens Ortner, MD, is European trained and Privat Dozent as academic degree at the Medical University of Vienna, Wien, Austria. Dr. Ortner is currently working as visiting assistant professor at the department of anesthesia at Stanford University School of Medicine in Stanford, CA, promoting point of care ultrasound in OB-anesthesia. Dr. Ortner's particular interests lie in the field of obstetric anesthesiology, where he published a number of publications on acute and chronic peripartum pain. As honorary consultant at the University of Cape Town, South Africa, Dr. Ortner led research on associations of metabolic acid-base and POCUS abnormalities in preeclampsia.



Oliver Panzer, MD, completed his critical care fellowship at Columbia University Medical Center (CUMC) in New York, then joined the faculty in the divisions of regional anesthesia and critical care in 2006. Early on he was fascinated by the impact of perioperative ultrasound on their clinical practice. He created and led perioperative ultrasound workshops and lectures for multiple classes of residents and critical care fellows at CUMC. Dr. Panzer became the Director of Perioperative Ultrasonography in the department in 2010, and he led the departmental Perioperative Ultrasound Curriculum Committee. He has taught courses nationally at the ASA meetings since 2010, the PGA meetings in New York since 2014 and the FATE course since 2016.



Bridget Pulos, MD, is a regional anesthesiologist at Mayo Clinic in Rochester, MN. She graduated from Tufts University in Medford, MA and completed medical school, anesthesiology residency, and regional anesthesia and acute pain medicine fellowship at the University of Pennsylvania in Philadelphia, PA. Dr. Pulos' interests include resident education, ultrasound guided regional anesthesia, and the impact of regional anesthesia on perioperative outcomes.



Sudarshan Setty, MD, graduated from Montefiore Medical Center in New York, in 2013 and has been an instructor in the FATE course since 2014. He is keen on teaching point of care ultrasound to physicians and has been the director of the FATE courses held at the University of Minnesota since 2016. As part of his international anesthesia resident education initiative, Dr. Setty has conducted a joint workshop on PoCUS at St. John's University in Bangalore, India. Dr. Setty is the director of perioperative echo in the department of anesthesiology at the University of Minnesota, where they are expanding PoCUS training to faculty, fellows, residents, and medical students.



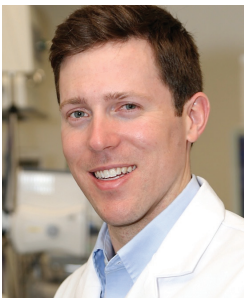
Michael Singleton, MD, is an assistant professor of anesthesiology at Vanderbilt University Medical Center in Nashville, TN. After finishing medical school at Indiana University, he completed residency at the University of Utah where he developed an interest in both regional anesthesia and the use of echocardiography in the perioperative period. He continued to develop his interests in the different applications of ultrasound as a fellow in regional anesthesiology at Hospital for Special Surgery in New York, before starting at Vanderbilt.



Erik Sloth, MD, PhD, is a professor of Point-Of-Care UltraSound. He has authored 150 papers, mainly on hemodynamics and focused TTE. Dr. Sloth developed the FATE-protocol (Focus Assessed Trans-thoracic Echo) almost 30 years ago, recognizing him as the founder of POC cardiac-pulmonary US. He has developed a unique learning concept, based on pre-course E-learning and systematic and comprehensive hands-on training. His innovative ideas, that all critical care physicians should learn FATE, is becoming reality.



Christopher Tanaka, MD, is an adult cardiothoracic anesthesiologist and a National Board of Echocardiography Diplomate-Examination of Advanced Perioperative Transesophageal Echocardiography (PTEeXAM) and Testamur -Examination of Special Competence in Adult Echocardiography (ASCeX-AM). His clinical research interests include TTE education and the perioperative use of TTE.



Douglas Wetmore, MD, is an assistant attending anesthesiologist at Hospital for Special Surgery (HSS) in New York. Dr. Wetmore completed his residency at the Icahn School of Medicine at Mount Sinai in New York, followed by a fellowship in regional anesthesiology and acute pain medicine at HSS. During his fellowship, Dr. Wetmore developed an interest in perioperative point-of-care ultrasound (PoCUS) and has since been involved in teaching PoCUS in the perioperative setting and at multiple educational conferences (Basic FATE, Advanced FATE, FEEL).

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	Speakers Bureau	Funded Research (Institution)	Royalties / Patent	Stock Options	Owner / Equity Position	Off-Label Usage
Alrayashi	Walid	Associate Faculty	No								No
ASRA Administrative Team (Borter, Oliver, Simper, Stengel)		Society, CME, Meeting Management	No								No
Bendtsen	Thomas	Curriculum Author	No								No
Boublik	Jan	Faculty, Planning Committee	Yes		Pacira Pharmaceuticals				(spouse) Pfizer, Genentech		No
Bughrara	Nibras	Associate Faculty	No								No
Buvanendran	Asokumar	CME Committee (ex-officio)	Yes		Halyard Health						No
Chan	Vincent	Faculty, CME Committee	Yes	SonoSite, Aspen Pharma	Smiths Medical						No
Cheng	Stephanie	Associate Faculty	No								No
Chin	Ki-Jinn	CME Committee	No								No
de Haan	Johanna Blair	Associate Faculty	No								No
Garvin	Sean	Associate Faculty	No								No
Grant	Stuart	CME Committee	Yes		Bbraun, Halyard		SPR Therapeutics, Halyard Health				No
Green	James	Faculty	No								No
Haskins	Stephen	Faculty, Planning Committee	Yes	FujiFilm Sonosite							No

Last Name	First Name	Role	COI	Honoraria / Expenses	Consulting / Advisory Board	Speakers Bureau	Funded Research (Institution)	Royalties / Patent	Stock Options	Owner / Equity Position	Off-Label Usage
Hernandez	Nadia	Associate Faculty	No								No
Knudsen	Lars	Curriculum Author	Yes					co-owner of 2 patents on ultrasound drapes		co-owner usabcd ltd. producing e-learning	No
Kratzert	Wolf	Associate Faculty	No								No
Kruisselbrink	Richelle	Faculty	No								No
Manson	William	Associate Faculty	No								No
Movahedi	Rana	Associate Faculty	Yes			Merck					No
Nejim	Jamiel	Faculty	No								No
Nicol	Andrea	CME Committee	No								No
Ortner	Clemens	Associate Faculty	No								No
Panzer	Oliver	Faculty	No								No
Perlas	Anahi	Planning Committee, Curriculum Author	Yes				Fisher & Paykel				No
Pino	Carlos	CME Committee	Yes		Mainstay Medical						No
Pulos	Bridget	Associate Faculty	No								No
Setty	Sudarshan	Associate Faculty	No								No
Singleton	Michael	Associate Faculty	No								No
Sloth	Erik	Faculty, Curriculum Author	Yes							co-owner usabcd ltd. producing e-learning	No
Tanaka	Christopher	Faculty	No								No
Vorenkamp	Kevin	CME Committee	No								No
Wetmore	Douglas	Associate Faculty	No								No

eLearning Course Curriculum

The following eLearning modules are provided by joint educational provider [USabcd](#) and are an integral part of the program. Modules will be available to all registered attendees for one year after the course.

1. Airway Ultrasound
2. Basic Lung Ultrasound
3. Ultrasound Assessment of Gastric Content
4. Focused Assessment with Sonography for Trauma (FAST)
5. Basic Focus Assessed Transthoracic Echocardiography (FATE)
- Optional: Basic Ultrasound Physics

Accessing the eLearning

1. Visit <http://usabcd.org/>
2. Click "Create Account" if this is your first visit.
3. Login if you already have an account.
4. Click on blue button in the top right "Proceed to eLearning and Courses."
Note: it can take several minutes after creating your account for the button to be appear.
5. Click on the "Optional Registration by Code."
Note: if you have already used USabcd eLearning courses, you may still see this once logged in; you must resubmit the following code to access this year's courses
6. Submit the registration code: **USABCD-XXXX-18912-181259**
7. Verify all courses are included
8. Click "Register Courses and Associated eLearning."
9. Click on the tab "Active eLearning Courses" to ensure all courses appear.

Support and Questions

Visit www.usabcd.org for helpful FAQ. For technical support, please contact USabcd Course Coordinator Anja Mu-siat at am@usabcd.org. Replies will be provided within 24-36 hours over business days.

About USabcd

USabcd was founded in 2010 by Erik Sloth, MD, PhD, DMSc, Professor of Point-Of-Care Ultrasound; Lars Knudsen, MD, PhD; and Thomas Fichtner Bendtsen, MD, PhD, research anesthetist - all from Aarhus University Hospital, Denmark. **Their vision?** Global dissemination of point-of-care ultrasound as a universal tool to improve the quality of acute, critical, and perioperative patient care. **Their method?** The unique USabcd learning concept that combines eLearning with focused, structured, and comprehensive 1- to 2-day workshops of hands-on training for



Saturday, December 1, 2018 (8.25 credits)

7:30 am Registration and Breakfast
8:00 am Welcome and Introduction Jan Boublik, MD, PhD

Airway, Lung, Gastric, Focused Assessment with Sonography for Trauma (FAST) Ultrasound

Pre-Course eLearning (www.USabcd.org)

Airway Ultrasound
Basic Lung Ultrasound
Ultrasound Assessment of Gastric Content
Focused Assessment with Sonography for Trauma (FAST)

Lectures

8:15 am Introduction to Gastric Richelle Kruisselbrink, MD
8:30 am Introduction to FAST Stephen Haskins, MD

Hands-On

8:45 am Concurrent Stations: Gastric and FAST
10:00 am Break

Lectures

10:15 am Introduction to Airway Exam James Green, MBBS, FRCA
10:30 am Introduction to Lung Exam Vincent Chan, MD, FRCPC, FRCA

Hands-On

10:45 am Concurrent Stations: Airway and Lung
12:00 pm Introduction to Gastric, FAST, Lung, and Airway Clinical Scenarios
12:15 pm Clinical Scenario Hands-On Stimulation
• Presentation of a clinical scenario requiring PoCUS (total of 5)
• A participant in each group is given 3 minutes to perform the exam and interpret their best images.
• The participant receives feedback.
• The clinical scenario is revisited with a diagnosis and real-life images.
1:00 pm Lunch

Focused Cardiac Ultrasound

Pre-Course eLearning (www.USabcd.org)

Basic Focus Assessed Transthoracic Echocardiography (FATE)

Lecture

2:00 pm Standard Cardiac Views and Inferior Vena Cava Imaging (IVC) Erik Sloth, MD, PhD

Hands-On

2:30 pm Concurrent Stations: Standard Cardiac Views and IVC Imaging
4:00 pm Break

Lecture

4:15 pm M-Mode in the Apical 4-Chamber View: Global Ventricular Function Assessment Jan Boublik, MD, PhD

Hands-On

4:30 pm Concurrent Stations: Repeat Standard Cardiac Views with Global Ventricular Function Assessment
6:00 pm Adjournment



Sunday, December 2, 2018 (5 credits)

7:30 am Registration and Breakfast

Focused Cardiac Ultrasound (continued)

Pre-Course eLearning (www.USabcd.org)

Basic Focus Assessed Transthoracic Echocardiography (FATE)

Lecture

8:00 am Focused Echocardiography in Emergency Life (FEEL) Support Protocol Nibras Bughrara, MD

8:25 am M-Mode in the Parasternal Long Axis View: Fractional Shortening, Mitral Septal Separation, and Aortic/Left Atrial Diameter Stephen Haskins, MD

Hands-On

8:35 am Concurrent Stations: Fractional Shortening, Mitral Septal Separation, and Aortic/Left Atrial Diameter

10:15 am Break

Lecture

10:30 am Clinical Scenarios and Basic Focus Assessed Transthoracic Echocardiography (FATE) Certification Erik Sloth, MD, PhD

Hands-On

10:45 am Concurrent Stations: Application of Focused Cardiac Ultrasound in the "Real World" and Basic FATE Certification

- Presentation of a clinical scenario requiring a focused cardiac ultrasound exam
- One participant in each group performs a Basic FATE exam and is given 9 minutes (90 seconds per view) to perform and record their best images
- That participant receives feedback (2-3 minutes) on image quality and how to better optimize views
- The clinical scenario is revisited with a diagnosis and real-life ultrasound images of pathology
- There are a total of 5 clinical scenarios/rotations, allowing each participant to be tested

Review and Certification

12:15 pm Q&A, Closing Remarks, and Basic FATE Certificate Issuance (must be present to be certified)

12:30 pm Free Scanning with Faculty (optional)

1:00 pm Airway/Lung/Gastric/FAST Refresher (optional)

1:15 pm Final Adjournment

Group Rotations to Hands-On Stations 1-14

Attendees will be placed in groups numbered 1-14 (indicated on name badge), with 5 participants in each group. Groups rotate to a different station during each hands-on session, offering participants the opportunity to scan different models, work with different faculty, and use multiple point-of-care ultrasound machines, all of which add to the learning experience.

Group Number	Sat, 8:45 gastric/FAST	Sat, 10:45 airway, lung	Sat 12:15 clinical scenarios	Sat, 2:30 FATE standard cardiac, IVC	Sat, 4:30 FATE standard cardiac, global ventricular function	Sun, 8:35 FATE cardiac multiple	Sun, 10:45 FATE cardiac "real world," exam
Group 1	1	2	3	4	5	6	7
Group 2	2	3	4	5	6	7	8
Group 3	3	4	5	6	7	8	9
Group 4	4	5	6	7	8	9	10
Group 5	5	6	7	8	9	10	11
Group 6	6	7	8	9	10	11	12
Group 7	7	8	9	10	11	12	13
Group 8	8	9	10	11	12	13	14
Group 9	9	10	11	12	13	14	1
Group 10	10	11	12	13	14	1	2
Group 11	11	12	13	14	1	2	3
Group 12	12	13	14	1	2	3	4
Group 13	13	14	1	2	3	4	5
Group 14	14	1	2	3	4	5	6

Continuing Medical Education/Continuing Professional Development

To receive your CME certificate:

1. Access the online system before **December 17th** by visiting www.surveymonkey.com/r/ASRAPOCUS18DEC.
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!

Educational objectives

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

- Integrate up-to-date PoCUS skills into daily clinical practice as the “21st-Century Stethoscope”.
- Improve management of the critical patient or patient in shock.
- Diagnose acute respiratory complications of regional anesthesia such as pneumothorax and diaphragmatic paresis.
- Evaluate for patients with interstitial syndrome or pleural effusions.
- Manage challenging airway patients.
- Assess and diagnose patients with cardiopulmonary changes such as hypotension, hypoxia and shock.
- Assess NPO status of patients.
- Assess for intra-abdominal fluid and abdominal compartment syndrome via the Focused Assessment with Sonography for Trauma (FAST) exam.
- Utilize a variety of cutting-edge Point-of-Care Ultrasound machines.
- Discuss how PoCUS can add value to your practice in the setting of the Affordable Care Act and Perioperative Surgical Home (PSH) model.
- Discuss the role for Focused Cardiac Ultrasound in Advance Cardiac Life Support to help with diagnosis and management of patients in a pulseless electrical activity (PEA) arrest.

Target audience

The course is designed for the **physician learner** wanting to gain a comprehensive understanding of perioperative point-of-care ultrasound applications including identification of clinical questions to be answered, technical performance aspects, and interpretation of results. The course is designed for **anesthesiologists, hospitalists, intensivists, and those practicing emergency medicine.**

Accreditation and credit designation statements

Credits by Day	Maximum
Pre-Course eLearning	15.00
Saturday	8.25
Sunday	5.00
Total Credits:	28.25

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Society of Regional Anesthesia and Pain Medicine and Ultrasound of Airway, Breathing, Circulation and Dolor (USabcd). The American Society of Regional Anesthesia and Pain Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Regional Anesthesia and Pain Medicine designates this live activity for a maximum of 28.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Board of Anesthesiology® MOCA®

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, but ASRA will no longer report credits to the ABA, which will then be the individual participant's responsibility.

International credits

Royal College of Physicians and Surgeons of Canada: 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 thanks the following companies
for their generous support.

Grants

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Disposable Supplies

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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.



American Society of Regional Anesthesia and Pain Medicine

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

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- ERAS protocols
- Percutaneous open coil stimulation and cryoanalgesia
- Mobile technology and wearables
- Regional anesthesia and pain management for outpatient total joints
- Phenotyping and genetic testing for opioid management
- PoCUS
- Much more!



Abstract submission deadline: Jan 7
Early-bird registration deadline: Feb 11
Tweet and follow #ASRASPRING19

Register at www.asra.com