Recognize and describe the sonoanatomy in normal patients

• Real time practice of ultrasound guided regional anesthesia blocks

• Practice spine (neuraxial) imaging with ultrasound

• Employ ultrasound guided regional anesthesia skills to improve guided nerve blocks

• Detect critical structures that need to be avoided to improve anesthesia blocks.

Describe and discuss the principles of ultrasound

• Recognize methods to identify complications of blocks

• Patient safety in regional anesthesia

Small group learning and real time hands on practice of regional anesthesia blocks.

After participating in the workshop, the participant will be able to:

Learning Objectives

Advance their skills in ultrasound guided regional anesthesia. This course is designed for Anesthesiologists who are seeking to

Small group learning and real time hands on practice of regional anesthesia blocks.

Overview

This course will include lectures, hands on workshops on fresh frozen human cadavers and live models. This course is a one day learning opportunity for anesthesia providers with strong emphasis on

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The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 9.50

American Medical Association (AMA) Physician’s Recognition Award. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Category 1 Credits

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register TODAY!

ccfcme.org/cadaver-workshop
Join us at Cleveland Clinic 6th Annual Cadaver Regional Anesthesia Ultrasound and PoCUS Workshop.

Overview:
This course is designed for Anesthesiologists who are seeking to advance their skills in ultrasound guided regional anesthesia. This course includes lectures, hands on workshops on fresh frozen human cadavers and live models. This course is a great learning opportunity for anesthesia providers with strong emphasis on small group learning and real time hands on practice of regional anesthesia blocks. The PoCUS (point of care ultrasound) workshop for the Anesthesiologist is designed to introduce the use of ultrasound for emergency cardiac evaluation, pulmonary, gastric and airway evaluation at bedside.

Learning Objectives:
After participating in the workshop, the participant will be able to:
• Recognize and describe the sonoanatomy of vessels, peripheral nerves, tendons and nerve plexi.
• Describe and discuss the techniques to refine and improve the quality of the ultrasound image obtained.
• Practice needle insertion techniques; identify the block needle trajectory and the spread of local anesthetic.
• Practice the ultrasound guided regional anesthesia blocks real-time on cadavers.
• Employ ultrasound guided regional anesthesia skills to improve block success rate.
• Detect critical structures that need to be avoided to improve patient safety in regional anesthesia.
• Scanning and identification of diaphragm, pleura, gastric volumes and basic transthoracic cardiac views.

Who Should Attend?
Physician Anesthesiologists, Fellows and Residents in Anesthesiology & Critical Care.

2018 Course Faculty
Faculty

Cleveland Clinic Faculty

Maged Argalious, MD
Anesthesiology Institute

Kenneth Cummings, MD
Anesthesiology Institute

Wael Ali Sakr Esa, MD
Anesthesiology Institute

Justo Gonzaliz, MD
Anesthesiology Institute

Venkatesh Khambampati MD
Emergency Services Institute

Kamal Maheshwari, MD
Anesthesiology Institute

Richard Rosenquist, MD
Anesthesiology Institute

John Seif, MD
Anesthesiology Institute

Samantha Stamper, MD
Anesthesiology Institute

Chihiro Toda, MD
Anesthesiology Institute

Guest Faculty

Sanjib Adhikari, MD
Hershey Medical Centre, Penn state, Hershey, PA

Alberto E Ardon, MD
Mayo Clinic
Jacksonville, FL

Sivasenthil Arumugam, MD
St. Francis Hospital
Hartford, CT

Jaime Baratta MD
Jefferson University Hospitals
Philadelphia, PA

Nabil Elkassabany MD
University of Pennsylvania
Philadelphia, PA

Hesham Elsharkawy, MD
University Hospitals Case Medical
Cleveland, OH

Stuart A. Grant, MD
Duke University Hospital
Durham, NC

James Green, MD
University of Alberta Hospital
Edmonton, Canada

Hari Kalagara, MD
University of Alabama
Birmingham, AL

Kwesi Kwofie, MD
Halifax Infirmary, Dalhousie University
Nova Scotia, Canada

Jason Panchamia, MD
Mayo Clinic
Rochester, MN

Amit Pawa, FRCA
Guy’s and St Thomas’ NHS Trust
London, UK

William Porter, MD
University of Alabama
Birmingham, AL

Christopher Prabhakar, MD
University of British Columbia
Vancouver, Canada

Rakesh Sondekoppam MD
University of Iowa Hospitals
Iowa City, IA

Ban Tsui, MD
Stanford University School of Medicine
Stanford, CA

Vishal Uppal, MD
Halifax Infirmary, Dalhousie University
Nova Scotia, Canada

Kamen V. Vlassakov, MD
Brigham and Women’s Hospital
Boston, MA

Sherif Zaky, MD
Firelands Medical Centre
Sandusky, OH
## Agenda

### Saturday, November 23, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:20 AM</td>
<td>Registration and Breakfast</td>
</tr>
<tr>
<td>6:55 AM</td>
<td>Welcome</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Introduction</td>
</tr>
<tr>
<td>7:10 AM</td>
<td>Upper Limb Blocks</td>
</tr>
<tr>
<td>7:40 AM</td>
<td>Interfascial Blocks I *</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Interfascial Blocks II **</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Safety in Regional Anesthesia</td>
</tr>
<tr>
<td>8:50 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>9:05 AM</td>
<td>Lower Limb Blocks</td>
</tr>
<tr>
<td>9:35 AM</td>
<td>Spine, Paravertebral and Lumbar Plexus</td>
</tr>
<tr>
<td>10:05 AM</td>
<td>Break &amp; Location Change</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Hands on Workshops ***</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Working Lunch - 3D Anatomy Review</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Hands on Workshops ***</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Ask the Experts Demo</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>

* Interfascial blocks I includes PEC 1&2, Serratus Anterior, TAP, Subcostal TAP, Rectus sheath, Pecto-Intercostal and Ileoinguinal/Ileohypogastric blocks.

** Interfascial Blocks II includes Quadratus Lumborum, ESP, Rhomboid-Intercostal and Retrolaminar.

*** Hands-on-Workshops include 10 stations (5 live models and 5 cadaver). Half the attendees will rotate through the live model stations while the other half rotates through the cadaver stations before lunch and switch after the 3D anatomy review lecture.

### Sunday, November 24th, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>Registration and Breakfast</td>
</tr>
<tr>
<td>7:55 AM</td>
<td>Welcome &amp; Introduction</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Lung &amp; Diaphragm Scanning</td>
</tr>
<tr>
<td>8:20 AM</td>
<td>Gastric Ultrasound</td>
</tr>
<tr>
<td>8:40 AM</td>
<td>Airway Ultrasound and Blocks</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>FATE (Basic Focus Assessed Transthoracic Echocardiography)</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>FAST (Focused Assessment with Sonography for Trauma)</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Hands on Workshops All Faculty</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Hands on Workshops All Faculty</td>
</tr>
<tr>
<td>12:30 AM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Adjourn</td>
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### Reviews from previous courses...

- No other course provides as many cadavers and as much hands on needling time. Great Value for money
- Excellent workshop that I have recommended to other colleagues
- Participant groups were small enough that each participant had the opportunity for hands on performance at each workstation
- Great faculty to attendee ratio
- Very well organized-excellent content
- I was impressed by the faculty. Everyone was helpful, enthusiastic and very knowledgeable

A five-minute question and answer period is included in each speaker’s allotted time
General Information

Location
Cleveland Clinic Main Campus
Lerner Research Institute
9620 Carnegie Ave.
Cleveland, OH 44195

Hotel Accmodations
A block of rooms has been reserved at the Intercontinental Hotel, Cleveland Clinic.
9801 Carnegie Avenue, Cleveland, OH 44106. The Hotel is within the Cleveland Clinic Main Campus and connected internally to the workshop location.
To make your reservations, please call 216.707.4100 or 877.707.8999 and identify yourself as an attendee for the Cleveland Clinic Cadaver Regional Anesthesia Workshop for discounted rate of $119.00 plus tax.
Other recommended hotels within walking distance are Holiday Inn: Cleveland Clinic 8650 Euclid Avenue, Cleveland, Ohio 44106 and Intercontinental Suites Hotel, 8800 Euclid Ave, Cleveland, OH 44106

Parking
Parking is available in the 100th street visitors parking garage at prevailing rates. Valet parking at the hotel is available for an additional charge.

Accreditation
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.
The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 14.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

Faculty Disclosure Statement
The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Americans with Disabilities Act
The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Megan Anderson at 216.299.3348 or Andersm13@ccf.org at least two weeks prior to the activity.

Register Online at ccfcme.org/cadaver-workshop

Fee includes: Fee include attendance to Lectures, Workshops, Continental breakfast, refreshment breaks, Lunch, printed syllabus, USB with faculty PowerPoint presentations in PDF format.

<table>
<thead>
<tr>
<th>PER DAY FEE</th>
<th>FULL FEE</th>
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<tbody>
<tr>
<td></td>
<td>Pay On or Before Oct. 21</td>
</tr>
<tr>
<td>Saturday</td>
<td>Sunday</td>
</tr>
<tr>
<td>Physician</td>
<td>$950</td>
</tr>
<tr>
<td>Resident*/Fellow*</td>
<td>$650</td>
</tr>
</tbody>
</table>

*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged.

Registration and Cancellation
Preregistrations are accepted until 5:00 pm ET Tuesday, November 19, 2019.
In case of cancellation, a full refund will be given until October 21, 2019. After October 21, 2019, there will be a $100 cancellation fee deducted from your refund.

NO REFUNDS WILL BE ISSUED AFTER NOVEMBER 8, 2019. For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any meeting cancellations or changes.
6th Annual
Cadaver Regional Anesthesia Ultrasound and PoCUS Workshop

November 23–24, 2019
Cleveland Clinic Main Campus, Lerner Research Institute
Cleveland, Ohio

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