

# Ultrasound-Guided Regional Anesthesia Course

November 2-3, 2024 | Chicago, IL



**Pre-course Video eLearning** **maximum value 5.5 credits**

Registration includes eLearning of at least 5.50 hours of video instruction.

1.	Basic Ultrasound and Needling Approaches
2.	Ultrasound Physics, Artifacts, Pitfalls, and Complications – Part 1
3.	Ultrasound Physics, Artifacts, Pitfalls, and Complications – Part 2
4.	Clinical Applications: General Introduction, Ultrasound Guided Nerve Blocks- Are They Better Than Nerve Stimulation?
5.	Update on Ultrasound Nerve Blocks and Anatomy of the Upper Extremity
6.	Clinical Applications: Ultrasound-Guided Lower Limb Nerve Blocks and Anatomy of the Lower Extremity
7.	Abdominal Truncal Blocks: Sono-anatomy and Techniques
8.	Chest Wall Blocks: Sono-Anatomy and Techniques
9.	Billing and Documentation in Different Jurisdictions
10.	Local Anesthetic Systemic Toxicity (LAST)
11.	Beyond the On Switch: Optimizing Ultrasound for Vascular Access and Regional Anesthesia
	Supplemental, Expert Scanning Demonstration Videos: <ul style="list-style-type: none"> <li>• Upper Extremity</li> <li>• Thoracic Wall Blocks</li> <li>• Abdominal Wall Blocks</li> <li>• Lower Extremity</li> </ul>

**Saturday, November 2, 2024**

7:00 am Registration and Breakfast

7:15 am Welcome and Introduction

7:20 am **Lecture: Upper Limb Scanning Preview Short Talk**

7:40 am Break and Transition to Lab

**7:45 am Upper Limb Scanning – Group Assignments**

**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 needling practice.**

**Throughout the course, all six blocks will be covered at each station so that learners will be exposed to a variety of faculty for each of the blocks. Attendees will be assigned a number (indicated on name badge), and placed in groups with 5 participants in each group. Groups rotate to a different station after 40 minutes, 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 A	Group B
Hands-On Live Model Scanning (sonoanatomy) All blocks will be covered at each station so that learners will be exposed to a variety of faculty for each of the blocks. (40 minutes at each station)	Needling/anatomy/clinical scenarios
All blocks to be covered at each station: <ol style="list-style-type: none"> <li>1. Interscalene</li> <li>2. Supraclavicular</li> <li>3. Infraclavicular</li> <li>4. Axillary Block</li> <li>5. Distal terminal nerves at elbow and forearm</li> </ol>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical scenarios: Practical approach to suspected nerve injury</li> <li>• Anatomy of upper limb</li> </ul>

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6. Consolidate/review	
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9:45 am Break

**10:00 am Upper Limb Scanning – Groups swap to alternate side**

Group B	Group A
Hands-On Live Model Scanning (sonoanatomy) All blocks will be covered at each station so that learners will be exposed to a variety of faculty for each of the blocks. (40 minutes at each station)	Needling/anatomy/clinical scenarios  (40 minutes at each station)
All Blocks to be covered at each station: <ul style="list-style-type: none"> <li>• Interscalene</li> <li>• Supraclavicular</li> <li>• Infraclavicular</li> <li>• Axillary Block</li> <li>• Distal terminal nerves at elbow and forearm</li> <li>• Consolidate/review</li> </ul>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical scenarios: Practical approach to suspected nerve injury</li> <li>• Anatomy of upper limb</li> </ul>

12:00 pm Break and Transition to Lunch Lectures

**12:10 pm Lunch Lecture 1: Q+A Review – Upper Limb Labs**

**12:40 pm Lunch Lecture 2: Lower Limb Scanning Preview Short Talk**

1:00 pm Break and Transition to Lab

**1:10 pm Lower Limb Scanning – Group Assignments**

Group A	Group B
Hands-On Live Model Scanning (sonoanatomy) All six blocks will be covered at each station so that learners will be exposed to a variety of faculty for each of the blocks. (40 minutes at each station)	Needling/anatomy/clinical scenarios  (40 minutes at each station)
Blocks to be covered: <ul style="list-style-type: none"> <li>• Fascia Iliaca / Supra Inguinal Fascia Iliaca/Femoral/PENG/Lat fem cut</li> <li>• Subsartorial / adductor canal distal femoral / Saphaeus</li> <li>• Anterior Sciatic / Obturator</li> <li>• Ankle</li> <li>• Popliteal / iPACK</li> <li>• Consolidate/review</li> </ul>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical Scenarios: <b>Gastric POCUS</b></li> <li>• Anatomy of lower limb</li> </ul>

3:10 pm Break

**3:25 pm Lower Limb Scanning – Groups swap to alternate side**

Group B	Group A
Hands-On Live Model Scanning (sonoanatomy)	Needling/anatomy/clinical scenarios

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<p>Blocks to be covered:</p> <ul style="list-style-type: none"> <li>• Fascia Iliaca / Supra Inguinal Fascia Iliaca/Femoral/PENG/Lat fem cut</li> <li>• Subsartorial / adductor canal distal femoral / Saphaeus</li> <li>• Anterior Sciatic / Obturator</li> <li>• Ankle</li> <li>• Popliteal / iPACK</li> <li>• Consolidate/review</li> </ul>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical Scenarios: <b>Gastric POCUS</b></li> <li>• Anatomy of lower limb</li> </ul>

- 5:25 pm Break and Transition to Lecture
- 5:35 pm **Lecture: Q+A Review – Core Lower limb**
- 6:00 pm Day 1 Adjournment

## Sunday, November 4, 2024

- 7:00 am **Breakfast and Lecture: Chest and Trunk Scanning Preview Short Talk**
- 7:30 am Break and Transition to Lab

### 7:35 am Chest and Trunk Scanning – Group Assignments

Group A	Group B
<p>Hands-On Live Model Scanning (sonoanatomy) All six blocks will be covered at each station so that learners will be exposed to a variety of faculty for each of the blocks. (40 minutes at each station)</p>	<p>Needling/anatomy/clinical scenarios  (40 minutes at each station)</p>
<p>Blocks to be covered:</p> <ul style="list-style-type: none"> <li>• TAP / Lateral Quadratus Lumborum / Posterior Quadratus Lumborum</li> <li>• Rectus Sheath / Iliohypogastric-Ilioinguinal</li> <li>• Epidural and spinal</li> <li>• PVB, Erector Spinae Plane and ITP blocks</li> <li>• PECS / Serratus Anterior</li> <li>• Consolidate/review</li> </ul>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical Scenarios (Topic TBD):</li> <li>• Anatomy of chest and trunk</li> </ul>

9:35 am Break to Next Area

### 9:50 am Chest and Trunk Scanning – Groups swap to alternate side

Group B	Group A
<p>Hands-On Live Model Scanning (sonoanatomy)</p>	<p>Needling/anatomy/clinical scenarios</p>

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<p>Blocks to be covered:</p> <ul style="list-style-type: none"> <li>• TAP / Lateral Quadratus Lumborum / Posterior Quadratus Lumborum</li> <li>• Rectus Sheath / Iliohypogastric-Ilioinguinal</li> <li>• Epidural and spinal</li> <li>• PVB, Erector Spinae Plane and ITP blocks</li> <li>• PECS / Serratus Anterior</li> <li>• Consolidate/ Review</li> </ul>	<ul style="list-style-type: none"> <li>• Needling/simulator/continuous catheter techniques</li> <li>• Clinical Scenarios (Topic TBD):</li> <li>• Anatomy of chest and trunk</li> </ul>

- 11:50 pm Break to Transition to Lunch Lectures
- 12:00 pm **Lunch Lecture 1: Q+A Review – Chest and Trunk Labs**
- 1:00 pm **Lecture: Live Scanning interactive with Faculty**
- 1:45 pm **Course Recap and Closing Remarks**
- 2:00 pm Adjournment