



HARVARD
MEDICAL SCHOOL

Beth Israel Deaconess
Medical Center

Musculoskeletal Ultrasound



HANDS-ON DIAGNOSTICS AND
GUIDED INTERVENTIONAL SKILLS

POINT-OF-CARE ULTRASOUND • INTERNATIONAL FACULTY

- Focused didactic lectures about how to scan each joint in detail, including the shoulder, elbow, wrist, hand, hip, knee, foot and ankle
- Scanning demonstration sessions to apply the knowledge learned in the lectures to scan the basic views of all joints including shoulder, elbow, wrist, hand, hip, knee, foot and ankle
- Comprehensive evidence-based, ultrasound-guided procedures and techniques
- Expert-level musculoskeletal ultrasound (MSKUS) faculty from multiple specialty practices
- Indications for MSKUS in sports medicine and pediatrics and the relevant nuances in these special populations
- Practical sessions about coding, billing, credentialing and certification in MSKUS
- Regenerative medicine and MSKUS indications

UNDER THE DIRECTION OF:

Fadi Badlissi, MD, MSc, MBA, RhMSUS | Hector Corominas, MD, PhD

EARN UP TO:

13.75 AMA PRA Category 1 Credits™ | 13.75 MOC Points

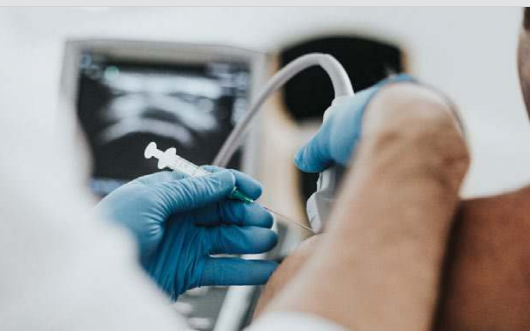


MAY 20-21, 2023

OPTIMIZED FOR REMOTE LEARNING

Interactive sessions • Instructive clinical cases with audience-response questions, all taught by renowned experts • Recordings of all live-streamed sessions are made available for immediate viewing online

Course Description



Musculoskeletal ultrasound (MSKUS) is a cutting-edge procedure being utilized to rapidly diagnose and treat a multitude of musculoskeletal disorders. This comprehensive course will cover the most important practical aspects of MSKUS, including step-by-step instruction for diagnostic ultrasound and guided procedures, followed by scanning demonstrations with a patient model in which you will have the opportunity to ask questions and receive immediate feedback

from our expert faculty. **Learners of all levels will receive individualized training on MSKUS utilization and techniques** of the upper and lower extremities as well as indications in pediatrics, physiatry and sports medicine.

Master the skills you need to practice musculoskeletal ultrasound

This intensive and highly interactive course is designed to provide you with the necessary training that you can immediately use in your practice.

- Image optimization and identifying the anatomic structures of the shoulder, elbow, wrist, hand, hip, knee, foot and ankle joints
- Evaluation and diagnostic techniques
- Patient and machine positioning
- Probe handling and positioning techniques
- Preparing an accurate and stable ultrasound image
- Techniques for needle visualization
- Utilization of various ultrasound machines
- Billing and coding
- Certification and credentialing in MSKUS
- Multidisciplinary team of expert faculty



Course Directors

Fadi Badlissi, MD, MSc, MBA, RhMSUS



Assistant Professor of Medicine
Harvard Medical School
Clinical Chief of Rheumatology
Director
Musculoskeletal Medicine Unit
Orthopedic Department and
Division of Rheumatology
Beth Israel Deaconess Medical
Center

Hector Corominas, MD, PhD



Director
Territorial Unit of Rheumatology
and Autoimmune Systemic
Diseases
Hospital de la Santa Creu i
Sant Pau
Universitat Autònoma de
Barcelona (UAB)

Tuition Fees

Live-Streaming Program	\$799
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Fees are shown in USD. All registrants will receive an electronic syllabus. All sessions will be recorded as they are live-streamed and made available for immediate viewing at your convenience. Video recordings of the presentations will be available on demand until August 15, 2023.

Payment, Confirmation and Refund Policy

You may register by credit card (Visa, MasterCard or American Express) or check using Harvard Medical School's secure online registration system at hmsMSKultrasound.com. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. A processing fee of \$10 (USD) per transaction will be assessed. Upon receipt of your paid registration, an email confirmation from the HMS-DCE office will be sent to you. **Be sure to include an email address that you check frequently, as it will be used for critical information such as registration confirmation, evaluation and certificate.** Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks before the start of the course. *Refund requests must be received by email.* No refunds will be issued should cancellation occur less than two weeks before. "No-shows" are subject to the full course fee.

Accreditation

In support of improving patient care, Harvard Medical School is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team. The Harvard Medical School designates this live activity for a maximum of 13.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ABIM Maintenance of Certification

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 13.75 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

Canadian Accreditation

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

European Accreditation

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert *AMA PRA Category 1 Credits™* to an equivalent number of European CME Credits® (ECMECs®). Information on the process of converting *AMA PRA Category 1 Credits™* to ECMECs® can be found at: www.eaccme.eu.

Nurse Practitioners and Registered Nurses

For the purpose of recertification, the American Academy of Nurse Practitioners Certification Board and American Nurses Credentialing Center accept *AMA PRA Category 1 Credit™* issued by organizations accredited by the Accreditation Council for Continuing Medical Education (ACCME). We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category 1 Credit™* for relicensure.

Physician Assistants

The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits™* are acceptable for continuing medical education requirements for recertification. We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category 1 Credit™* for relicensure.

Questions

By phone 617-384-8600, Monday-Friday, 9 AM to 4 PM (EST), or by email at: ceprograms@hms.harvard.edu.

Faculty

Ashwin N. Babu, MD

Instructor in Physical Medicine and Rehabilitation
Harvard Medical School
Associate Program Director
Harvard/Spaulding Physical Medicine and Rehabilitation Program
Spaulding Rehabilitation Hospital

Ezra M. Cohen, MD, RhMSUS

Assistant Professor of Pediatrics
Boston University School of Medicine
Director, Pediatric Rheumatology
Boston Medical Center
Attending in Rheumatology
Boston Children's Hospital

Swati D. Deshmukh, MD

Assistant Professor of Radiology
Harvard Medical School
Beth Israel Deaconess Medical Center

John-Paul D. Hezel, MD

Instructor in Orthopedic Surgery
Harvard Medical School
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Eugene Kissin, MD, RhMSUS

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Anthony M. Reginato, MD, PhD

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Director of Rheumatology Research
Musculoskeletal Ultrasound
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Rhode Island Hospital

Shiv T. Sehra, MD, RhMSUS

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Harvard Medical School
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Ralf G. Thiele, MD, FACR, RhMSUS

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University of Rochester School of Medicine and Dentistry
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Derrick J. Todd, MD, PhD

Instructor in Medicine
Harvard Medical School
Chief, Clinical Rheumatology
Brigham and Women's Faulkner Hospital
Director
BWH Rheumatology Ultrasound Center
Brigham and Women's Hospital

Register now: hmsMSKultrasound.com

Saturday, May 20, 2023

7:45am – 7:50am **Introduction and Welcome**
Fadi Badlissi, MD, MSc, MBA, RhMSUS

7:50am – 8:20am **Basic Sono-anatomy and Ultrasonography Principles**
Hector Corominas, MD, PhD

UPPER EXTREMITY

8:20am – 8:50am **Ultrasonography of the Wrist and Hand**
Shiv T. Sehra, MD, RhMSUS

8:50am – 9:40am **PRACTICE SESSION**
Scanning Demonstration — Ultrasound of the Wrist and Hand
Questions and Discussion Moderated by Sehra

9:40am – 10:00am **Break and Stretch**

10:00am – 10:25am **Ultrasonography of the Elbow**
Daniel P. Magliulo, MD

10:25am – 10:55am **PRACTICE SESSION**
Scanning Demonstration — Ultrasound of the Elbow
Questions and Discussion Moderated by Magliulo

10:55am – 11:05am **Break and Stretch**

11:05am – 11:25am **Ultrasonography of the Shoulder**
Fadi Badlissi, MD, MSc, MBA, RhMSUS

11:25am – 12:05pm **PRACTICE SESSION**
Scanning Demonstration — Ultrasound of the Shoulder
Questions and Discussion Moderated by Badlissi

12:05pm – 12:50pm **Lunch Break**

12:50pm – 1:10pm **Billing and Coding**
Ralf G. Thiele, MD, FACR, RhMSUS

1:10pm – 1:30pm **Certification and Credentialing**
Ralf G. Thiele, MD, FACR, RhMSUS

1:30pm – 1:45pm **Questions and Discussion**
Thiele

1:45pm – 2:00pm **Break and Stretch**

2:00pm – 2:30pm **SPECIAL LECTURES**
Imaging of Nerves and Guided Perineural Injections
Swati D. Deshmukh, MD

2:30pm – 3:00pm **Special Topic in Ultrasound**
TBD

3:00pm – 3:30pm **MSKUS and Orthobiologics**
Ashwin N. Babu, MD

3:30pm – 3:50pm **Questions and Discussion**
Deshmukh, Babu

3:50pm – 4:00pm **Break and Stretch**

4:00pm – 4:50pm **Needle Guidance and Ultrasound-Guided Musculoskeletal Interventions: Technique and Evidence**
Eugene Kissin, MD, RhMSUS

4:50pm – 5:00pm **Questions and Discussion**
Kissin

DISCLOSURE POLICY Harvard Medical School (HMS) adheres to all ACCME Accreditation Criteria and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g., planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest before the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

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Sunday, May 21, 2023

LOWER EXTREMITY

8:00am – 8:40am	Ultrasonography of the Ankle and Foot Ralf G. Thiele, MD, FACR, RhMSUS
8:40am – 9:35am	PRACTICE SESSION Scanning Demonstration — Ultrasound of the Ankle and Foot <i>Questions and Discussion Moderated by Thiele</i>
9:35am – 9:50am	Break and Stretch
9:50am – 10:10am	Ultrasonography of the Knee Derrick J. Todd, MD, PhD
10:10am – 10:50am	PRACTICE SESSION Scanning Demonstration — Ultrasound of the Knee <i>Questions and Discussion Moderated by Todd</i>
10:50am – 11:00am	Break and Stretch
11:00am – 11:20am	Ultrasonography of the Hip Hector Corominas, MD, PhD
11:20am – 11:50am	PRACTICE SESSION Scanning Demonstration — Ultrasound of the Hip <i>Questions and Discussion Moderated by Corominas and Cohen</i>
11:50am – 12:35pm	Lunch Break
12:35pm – 1:05pm	Musculoskeletal Ultrasound in Sports Medicine John-Paul D. Hezel, MD
1:05pm – 1:35pm	MSKUS in Pediatric Rheumatology Ezra M. Cohen, MD, RhMSUS
1:35pm – 1:50pm	Ultrasound in Crystal-Induced Arthritis Anthony M. Reginato, MD, PhD
1:50pm – 2:25pm	<i>Questions and Discussion</i> Reginato, Hezel, Cohen
2:25pm – 2:35pm	Break and Stretch
2:35pm – 3:05pm	How to Incorporate MSKUS into Your Practice When Starting Fadi Badlissi, MD, MSc, MBA, RhMSUS
3:05pm – 3:35pm	Ask Me Anything: Question-and-Answer Session Deshmukh, Kissin, Reginato, Thiele
3:35pm – 3:40pm	Closing Remarks Fadi Badlissi, MD, MSc, MBA, RhMSUS

Learning Objectives

- Review the basics of diagnostic musculoskeletal ultrasound and its indications
- Utilize ultrasound-guided interventional skills
- Describe musculoskeletal ultrasound utilization in rheumatology, orthopedics, sports medicine, physiatry, pediatrics and pain medicine
- Integrate state-of-the-art musculoskeletal ultrasound diagnostic and interventional skills to improve patients' outcomes and procedure accuracy
- Implement the current state of musculoskeletal ultrasound billing, certification and credentialing

Who Should Attend

- Rheumatologists, adult and pediatric
- Physiatrists
- Podiatrists
- Orthopedists with an interest in diagnostic MSKUS and procedure guidance
- Anesthesiologists with an interest in pain medicine and management
- Nurse practitioners and PAs in rheumatology or orthopedic practices



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MAY 20-21, 2023 ((o)) **LIVE STREAM**

Musculoskeletal Ultrasound

HANDS-ON DIAGNOSTICS AND
GUIDED INTERVENTIONAL SKILLS



MASTER THE SKILLS YOU NEED TO PRACTICE MUSCULOSKELETAL ULTRASOUND



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