



MITOS • KAROKIS

Musculoskeletal Imaging Techniques - Ongoing Sonography
A task force Greek Rheumatologists

Basic & Intermediate Levels



International Musculoskeletal UltraSound Course

19
FEB 2026
21
Athens
Greece

CONCO
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Course Secretariat
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COURSE ✓

GENERAL INFORMATION

ORGANIZATION AND COMMITTEE

Scientific Director

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Local Organizer

M.I.T.O.S. (Musculoskeletal Imaging Techniques: Ongoing Sonography- a Task Force for Greek Rheumatologists)

Organizing Committee

Giasna Giokits
Ioannis Raftakis
Caterina Siagkri

Scientific Committee

Giasna Giokits
Ioannis Raftakis
Caterina Siagkri

Faculty

The speakers will come from major European musculoskeletal ultrasound research centers and are rheumatologists mostly involved in previous EULAR courses. The contacted faculties are:

Faculties

Annamaria Iagnocco, Italy
Ahmed Abogamal, Egypt
Amalia Raptopoulou, Greece
Andrea DelleSedie, Italy
Athanasios Fortis, Greece
Carlo Perricone, Italy
Caterina Siagkri, Greece
Christos Georgakopoulos, Greece
Dimos Merinopoulos, Greece
Emilio Filippucci, Italy
Giasna Giokits, Greece
Ioannis Raftakis, Belgium
Nemanja Damjanov, Serbia
Peter Balint, Hungary

Instructors

Ahmed Abogamal, Egypt
Amalia Raptopoulou, Greece
Andrea DelleSedie, Italy
Athanasios Fortis, Greece
Carlo Perricone, Italy
Caterina Siagkri, Greece
Christos Georgakopoulos, Greece
Dimitris Karokis, Greece
Dimos Merinopoulos, Greece
Emilio Filippucci, Italy
Giasna Giokits, Greece
Ioannis Raftakis, Belgium
Nemanja Damjanov, Serbia
Panagiotis Ermeidis, Germany
Pavlos Stamatis, Greece
Peter Balint, Hungary
Theodoros Dimitroulas, Greece

GENERAL INFORMATION

Course's opening	Thursday, February 19th, 2026- h 12.30
Course's closing	Saturday, February 21st, 2026- h 16.45
Participants	The number of participants in each of the levels is limited
Official Language	English
Congress Venue	

Organizer

M.I.T.O.S. GROUP

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SPEAKERS-INSTRUCTORS

Annamaria Iagnocco

Professor of Rheumatology, Dipartimento Scienze Cliniche e Biologiche, Università degli Studi di Torino, Turin, Italy

Ahmed Abogamal

Professor Of Rheumatology, Al-Azhar University, Consultant Rheumatologist, DUBAI-UAE, board member of the APLAR, Scientific Director Of the ARLAR MSUS group, Cairo, Egypt

Amalia Raptopoulou

MD, PhD, Rheumatologist, Veroia, Greece

Andrea DelleSedie

MD, Rheumatologist, Azienda Ospedaliero Universitaria Pisana, Pisa, Italy

Athanasios Fortis

MD, PhD, FEBOT, Clinical Director Orthopaedic Department, Panarkadian Hospital, Tripolis, Greece

Carlo Perricone

Associate Professor in Rheumatology, Rheumatology Department of Medicine and Surgery, University of Perugia, Italy

Caterina Siagkri

Rheumatologist, Scientific Associate of Hippocraton Hospital of Thessaloniki, Private Practice, Thessaloniki, Greece

Christos Georgakopoulos

MD, MSc, Rheumatologist, KAT General Hospital, Attica, Greece

Dimos Merinopoulos

Rheumatologist, BS, MSc, MD, MRCP, Scientific associate "Atikon" University Hospital, Athens, Greece

Emilio Filippucci

Professor, MD, PhD, Clinica Reumatologica, Università Politecnica delle Marche, Jesi (Ancona), Italy

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Ioannis Raftakis

Rheumatologist, Deputy Head of Clinic, Department of Rheumatology, CHUB rugmann, Brussels, Belgium

Nemanja Damjanov

MD, PhD, Full Professor of Internal Medicine, Rheumatology, Belgrade University School of Medicine, Director of Institute of Rheumatology, Belgrade, Serbia

Panagiotis Ermeidis

Rheumatologist, Rheumazentrum Ruhrgebiet, Herne, Germany

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MD, MSc, PhD, Consultant Rheumatologist Sunderby Hospital Sweden, Affiliated researcher Lund University, Sweden

Peter V. Balint

Prof. Dr. FRCP (Glasgow), President of the Hungarian Association of Rheumatologists, Musculoskeletal Radiology Group, Medical Imaging Clinic, Semmelweis University, Head of Department, Consultant Rheumatologist, 3rd Rheumatology Department, National Institute of Musculoskeletal

Theodoros Dimitroulas

Associate Professor of Rheumatology, School of Medicine, Aristotle University of Thessaloniki, Greece

SCIENTIFIC PROGRAM INFORMATION

CONGRESS SECRETARIAT OPENING HOURS

Thursday, 19 February 2026	12:00 20:30
Friday, 20 February 2026	09:00 19:00
Saturday, 21 February 2026	08:30 16:15

CERTIFICATE OF ATTENDANCE

Participants can receive their certificate of attendance during the closing session on the 21st of February 2026.

To receive the certificate of attendance, it is mandatory to complete and submit the evaluation form, at the Course Secretariat, before the closing session and to show the congress badge.

BASIC LEVEL

OBJECTIVES:

- To learn technical characteristics and setting of ultrasound equipment for rheumatology.
- To learn the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines.
- To learn basic normal musculoskeletal ultrasonographic (MSUS) anatomy.
- To learn basic pathological MSUS findings.

MAIN TOPICS:

- Ultrasound physics and technology, technical characteristics of ultrasound equipment in rheumatology, applications, indications and limitations of MSUS.
- MSUS anatomy, artifacts and misinterpretation in MSUS.
- Standardized sonographic scanning method of each anatomical region (shoulder, elbow, wrist and hand, hip, knee, ankle and foot) according to the EULAR guidelines.
- Basic pathological sonographic findings (tendinosis, tenosynovitis, partial and complete tendon tear, enthesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities, erosions and joint synovitis).
- Reporting MS US findings and diagnosis.

WORKSHOPS:

- Practical handling of the ultrasound machine settings.
- Supervised identification of musculoskeletal sonoanatomy.
- Supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle and foot.
- Supervised hands-on scanning of patients with basic musculoskeletal lesions.

BASIC LEVEL

Thursday, 19th February 2026

12.00 - 13.30 Registration

Welcome

13.30 - 13.45 A. Iagnocco, G. Giokits, J. Raftakis

13.45 - 14.00 J. Raftakis Entering test of knowledge- Basic Level

14.15 - 14.45 Chairpersons: A. Iagnocco, J. Raftakis
J. Raftakis Technical characteristics and setting of ultrasound equipment for Musculoskeletal diseases

14.45 - 15.00 Mini break- Hall changing

15.00 - 16.30 Workshop: Supervised practical handling of the ultrasound machine settings

16.30 - 17.00 Break

Chairpersons: **C. Perricone, E. Filippucci**

17.00 - 17.25 C. Perricone History and basic physics of MSUS

17.25 - 18.00 E. Filippucci Normal tissue and joint anatomy; Sonographic pattern of the musculoskeletal tissues

18.00 - 18.30 C. Perricone Artifacts and misinterpretation in MSUS

18.30 - 19.30 Workshop: Supervised practical handling of the normal MSUS anatomy

19.30 - 20.00 Workshop: Hands-on session; normal MSUS anatomy and basic pathological findings

Chairperson: **A. Iagnocco**

20.00 - 20.30 A. Iagnocco US Application in management of Musculoskeletal Disorders

BASIC LEVEL

Friday, 20th February 2026

Chairpersons: **A. Iagnocco, G.Giokits**

09.00 - 09.30 N. Damjanov Sonographic semiology; US and correlative anatomy and histology: articular cartilage lesions, cortical abnormalities; Basic pathology of tendons and ligaments (tendinosis, calcifications, tears)

09.30 - 10.00 A. Iagnocco Basic synovial US lesions: synovitis, synovial hypertrophy, tenosynovitis and bursitis; Definition, detection, and quantification

10.00 - 10.30 P. Balint Enthesitis and enthesopathy

10.30 - 11.00 Break

11.00 - 12.45 Workshop: US semiology: normal and basic pathological findings

Chairpersons: **N. Damjanov, C. Siagkri**

12.45 - 13.15 C. Siagkri Standardized scanning of shoulder: normal and basic pathological findings

13.15 - 13.45 A. Raptopoulou Standardized scanning of the elbow: normal and basic pathological findings

13.45 - 14.30 Break

14.30 - 17.00 Workshop: Supervised scanning technique of shoulder; Supervised scanning technique of elbow: normal and basic pathological findings

Chairpersons: **G.Giokits, A. Fortis**

17.00 - 17.30 G.Giokits Standardized scanning of the wrist and hand: normal and basic pathological findings

17.30 - 18.00 A. Fortis Standardized scanning of the hip: normal and basic pathological findings

BASIC LEVEL

Saturday, 21st February 2026

- 09.00 - 10.30** **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative hand, wrist and hip.
Chairpersons: **G. Giokits, N. Damjanov**
- 10.30 - 11.00** **N. Damjanov** Basic skills in sonographic-guided arthrocentesis
- 11.00 - 11.15** Break
Chairpersons: **A. Iagnocco, J. Raftakis**
- 11.15 - 11.45** **D. Merinopoulos** Standardized scanning of the knee: normal and basic pathological findings
- 11.45 - 12.15** **J. Raftakis** Standardized scanning of the ankle and foot: normal and basic pathological findings
- 12.15 - 12.45** **C. Perricone** Image documentation; Reporting US findings and diagnosis
- 12.45 - 13.15** Break
- 13.15 - 14.30** **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot
- 14.30 - 15.30** **Workshop:** Basic skills in sonographic-guided arthrocentesis
- 15.30 - 15.45** Exit test of knowledge
- 15.45 - 16.15** Closing remarks and certificate issue



INTERMEDIATE LEVEL

OBJECTIVES:

- To review the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines.
- To learn Colour and Power Doppler physics, application, indications and limitations.
- To learn definition, ultrasound presentation and quantification of synovitis, synovial hypertrophy, effusion, erosion, tendinopathy, tenosynovitis, enthesopathy and degenerative lesions.
- To assess, quantify and/or score joint lesions.
- To learn basic skills to perform sonographic-guided musculoskeletal injections.
- To understand the role of musculoskeletal US in clinical and research practice.

MAIN TOPICS:

- Role of Colour and Power Doppler in rheumatology.
- Colour and Power Doppler physics and technology.
- Applications, indication and limitations of Colour and Power Doppler.
- Ultrasound presentation of synovitis, effusion, erosions, tendinopathies, tenosynovitis, enthesitis and degenerative lesions.
- Role of ultrasound in diagnosis and monitoring of metabolic arthritis.
- Role of ultrasound in monitoring patients with inflammatory joint diseases.
- Standards of safety of ultrasound-guided punctures and injections sonographic system.

WORKSHOPS:

- Practical handling of the ultrasound machine settings and use of Colour and Power Doppler technology.
- Supervised scanning of the patients with inflammatory and degenerative joint disease focused on detection of synovitis, effusion, erosions, tendinopathies, tenosynovitis, enthesitis and degenerative lesions.
- Supervised basic sonographic-guided musculoskeletal injections.

INTERMEDIATE LEVEL

Thursday, 19th February 2026

12.00 - 13.30 Registration

13.30 - 13.45 Welcome

A. Iagnocco, G. Giokits, J. Raftakis

14.00 - 14.15 J. Raftakis Entering test of knowledge- Intermediate Level

Chairpersons: **A. Iagnocco, J. Raftakis**

14.15 - 14.45 J. Raftakis Technical characteristics and setting of ultrasound equipment for Musculoskeletal diseases

14.45 - 15.00 Mini break- Hall changing

Chairpersons: **A. Iagnocco, E. Filippucci**

15.00 - 15.20 J. Raftakis Doppler physics, technology and artefacts. Doppler setting optimization

15.20 - 15.40 C. Georgakopoulos Application, indications and limitations of Doppler in musculoskeletal US

15.40 - 16.00 Break

16.00 - 16.30 E. Filippucci Colour Doppler and power Doppler. Correlations between US imaging and histopathological findings

16.30 - 18.30 Workshop: Supervised practical scanning of the different Doppler modalities. How to use and set the ultrasound equipment. The choice of the appropriate probe. Optimization of Doppler settings. PDUS artefacts

Chairpersons: **A. Iagnocco, A. Delle Sedie**

18.30 - 19.00 A. Iagnocco B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls

19.00 - 19.30 A. Delle Sedie B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls

INTERMEDIATE LEVEL

Friday, 20th February 2026

08.45 - 09.30 Workshop: US semiology- pathological findings

09.30 - 11.00 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative joint disorders; How to detect and quantify synovitis (including Power Doppler), cartilage and bony lesions

Chairpersons: **P. Balint, G. Giokits**

11.00 - 11.25 N. Damjanov B-mode tendinosis and tendon tear. Definition detection, quantification and pitfalls

11.25 - 11.50 A. Abogamal US bone abnormalities. Definition, detection, quantification and pitfalls

11.50 - 12.15 A. Abogamal US cartilage abnormalities. Definition, detection, quantification and pitfalls

12.15 - 12.45 P. Balint B-mode tendinosis and tendon tear. Definition, detection, quantification and pitfalls

12.45 - 14.00 Workshop: Supervised hands-on scanning of patients with synovitis and tenosynovitis, enthesopathy / enthesitis, tendinosis and tendon tear, bone and cartilage abnormalities

14.00 - 15.00 Break

Chairpersons: **G. Giokits, C. Siagkri**

15.00 - 15.30 G. Giokits US diagnosis of hip pathology

15.30 - 16.00 J. Raftakis US diagnosis of knee pathology

16.00 - 16.30 C. Siagkri US diagnosis of ankle and foot pathology

16.30 - 17.00 E. Filippucci Role of US in the diagnosis of crystal arthropathy

17.30 - 19.00 Workshop: Supervised hands-on scanning of patients with lower extremity pathology

INTERMEDIATE LEVEL

Saturday, 21st February 2026

Chairpersons: **J. Raftakis, G. Giokits**

- 09.00 - 09.30** **G. Giokits** US diagnosis of shoulder pathology
09.30 - 10.00 **J. Raftakis** US diagnosis of elbow pathology
10.00 - 10.30 **G. Giokits** US diagnosis of wrist and hand pathology

Chairpersons: **G. Giokits, N. Damjanov**

- 10.30 - 11.00** **N. Damjanov** Basic skills in sonographic-guided arthrocentesis
11.00 - 11.15 Break
11.15 - 13.15 **Workshop:** Supervised hands-on scanning of patients with upper extremity pathology
13.15 - 13.30 Break

Chairpersons: **E. Filippucci, A. Iagnocco**

- 13.30 - 14.00** **A. Iagnocco** US: a tool for diagnosis and outcome measure in RA
14.00 - 14.15 Break
14.15 - 15.30 **Workshop:** Basic skills in sonographic-guided arthrocentesis
15.30 - 15.45 Exit tests of knowledge
15.45 - 15.15 Closing remarks and certificate