

UNDER THE AUSPICES




01-03
December
2022

Scientific
Program

8th

International
Musculoskeletal
UltraSoundCourse

 Wyndham Grand Athens, Greece

Scientific^{ly} Endorsed by

eular

EUROPEAN ALLIANCE
OF ASSOCIATIONS
FOR RHEUMATOLOGY



GENERAL INFORMATION

ORGANIZATION AND COMMITTEE

Scientific Director

Prof. Annamaria Iagnocco

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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 Kakavouli

Dimitrios Karokis

Ioannis Raftakis

Caterina Siagkri

Scientific Committee

Giasna Giokits Kakavouli

Dimitrios Karokis

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

Ahmed Abogamal, Egypt

Amalia Raptopoulou, Greece

Andrea DelleSedie, Italy

Andreas Diamantopoulos, Norway

Annamaria Iagnocco, Italy

Athanasios Fortis, Greece

Caterina Siagkri, Greece

Dimitris Karokis, Greece

Dimos Merinopoulos, Greece

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna Giokits-Kakavouli, Greece

Ioannis Raftakis, Belgium

Nemanja Damjanov, Serbia

Peter Mandl, Austria

Instructors

Ahmed Abogamal, Egypt

Amalia Raptopoulou, Greece

Andrea DelleSedie, Italy

Andreas Diamantopoulos, Norway

Athanasios Fortis, Greece

Caterina Siagkri, Greece

Christos Georgakopoulos, Greece

Dimitris Karokis, Greece

Dimos Merinopoulos, Greece

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna Giokits-Kakavouli, Greece

Ioannis Raftakis, Belgium

Nemanja Damjanov, Serbia

Panagiotis Bozios, Greece

Peter Mandl, Austria

Theodoros Natskos, Greece

GENERAL INFORMATION

Course's opening

Thursday, December 1st, 2022 - h 11.30

Course's closing

Saturday, December 3rd, 2022 - h 16:45

Participants

The number of participants in each of the levels is limited

Official language

English

Congress Venue

Wyndham Grand Hotel, Athens, Greece

Organizer

M.I.T.O.S. GROUP

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Co Organizer

**Rheumatology Association
of Serbia**

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Contact and Technical Organizer



THE CONFERENCE COMPANY

Conco Meetings and Events

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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 MSUS 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.

SCIENTIFIC PROGRAM

Thursday - December 1st, 2022

BASIC LEVEL

13.00 - 14.00 Registration - Lunch

14.00 - 14.15 Welcome
A. Iagnocco, G. Giokits-Kakavouli, D. Karokis

14.15 - 14.30 **J. Raftakis** Entering test of knowledge - Basic Level

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

14.30 - 15.00 **J. Raftakis** Technical characteristics and setting of ultrasound equipments for Musculoskeletal diseases

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

16.30 - 17.00 Coffee break

Chairpersons: **F. Porta, G. Filippou**

17.00 - 17.25 **G. Filippou** History and basic physics of MSUS

17.25 - 18.00 **P. Mandl** Normal tissue and joint anatomy; Sonographic pattern of the musculoskeletal tissues

18.00 - 18.30 **F. Porta** Artifacts and misinterpretation in MSUS

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

Chairpersons: **A. Iagnocco**

19.30 - 20.00 **D. Merinopoulos** Image documentation; reporting US findings and diagnosis

20.00 - 21.00 **Workshop:** Hands - on session; normal MSUS anatomy and basic pathological findings

21.00 Dinner



SCIENTIFIC PROGRAM

Friday, December 2nd, 2022

BASIC LEVEL

- 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 A. Diamantopoulos** Enthesitis and enthesopathy
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- 10.30 -11.00** Coffee break
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- 11.00 - 12.45 Workshop:** US semiology: normal and basic pathological findings
Chairpersons: **G. Giokits-Kakavouli, 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
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- 13.45 - 14.30** Lunch
-
- 14.30 - 17.00 Workshop:** Supervised scanning technique of shoulder; supervised scanning technique of elbow; Normal and basic pathological findings
Chairpersons: **A. Iagnocco, D. Karokis**
- 17.00 - 17.30 D. Karokis** Standardized scanning of the wrist and hand: normal and basic pathological findings
- 17.30 - 18.00 A. Iagnocco** US Application in management of Musculoskeletal Disorders
Chairpersons: **G. Giokits-Kakavouli, N. Damjanov**
- 18.00 - 18.30 N. Damjanov** Basic skills in sonographic guided arthrocentesis
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- 20.00** Dinner
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SCIENTIFIC PROGRAM

Saturday, December 3rd, 2022

BASIC LEVEL

09.00 - 10.45 **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative hand, wrist and hip

10.45 - 11.15 Coffee break

11.15 - 11.45 Chairpersons: **J. Raftakis, A. Fortis**
A. Fortis Standardized scanning of the hip: normal and basic pathological findings

11.45 - 12.15 **J. Raftakis** Standardized scanning of the knee: normal and basic pathological findings

12.15 - 12.45 **J. Raftakis** Standardized scanning of the ankle and foot: normal and basic pathological findings

12.45 - 13.15 Lunch

13.15 - 14.15 **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot

14.15 - 15.00 **Workshop:** Basic skills in sonographic-guided arthrocentesis

15.00 - 15.15 Exit test of knowledge & closing remarks



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.

SCIENTIFIC PROGRAM

Thursday, December 1st, 2022

INTERMEDIATE LEVEL

13.00 - 14.00	Registration - Lunch
14.00 - 14.15	Welcome A. Iagnocco, G. Giokits-Kakavouli, D. Karokis
14:15 - 14:30	J. Raftakis Entering test of knowledge - Intermediate Level Chairpersons: G. Giokits-Kakavouli, J. Raftakis
14.30 - 15.00	J. Raftakis Technical characteristics and setting of ultrasound equipment for Musculoskeletal diseases Chairpersons: A. Iagnocco, A. Diamantopoulos
15.00 - 15.20	A. Diamantopoulos Application, indications and limitations of Doppler in musculoskeletal US
15.20 - 15.40	A. Iagnocco B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls
15.40 -16.10	F. Porta B-mode and Doppler tenosynovitis. Definition, detection, quantification and pitfalls
16.10 - 16.30	Coffee break
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. Optimisation of Doppler settings. PDUS artefacts Chairpersons: A. Iagnocco, F. Porta
18.30 - 19.00	A. DelleSedie Colour Doppler and Power Doppler. Correlations between US imaging and histopathological findings
19.00 - 19.20	G. Filippou Doppler physics, technology and artefacts. Doppler setting optimization
20.00	Dinner



SCIENTIFIC PROGRAM

Friday, December 2nd, 2022

INTERMEDIATE LEVEL

	Chairperson: G. Giokits-Kakavouli
08.30 - 09:00	N. Damjanov Basic skills in sonographic-guided arthrocentesis
08.30 - 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. Mandl, G. Giokits-Kakavouli
11.00 - 11.25	P. Mandl B-mode and Doppler 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. Diamantopoulos B-mode and Doppler enthesopathy and enthesitis; Definition, detection, quantification and pitfalls
12.15 - 12.45	A. Abogamal US cartilage abnormalities. 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
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14.00 - 15.00	Lunch
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	Chairpersons: G. Giokits-Kakavouli, C. Siagkri
15.00 - 15.30	P. Mandl US diagnosis of hip pathology
15.30 - 16.00	G. Giokits-Kakavouli US diagnosis of knee pathology
16:00 - 16:30	C. Siagkri US diagnosis of ankle and foot pathology
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16.30 - 17.00	Coffee Break
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17.00 - 19.00	Workshop: Supervised hands-on scanning of patients with lower extremity pathology
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20.00	Dinner

SCIENTIFIC PROGRAM

Saturday, December 3rd, 2022

INTERMEDIATE LEVEL

- Chairpersons: **P. Mandl, G. Giokits-Kakavouli**
- 09.00 - 09.30** **A. Iagnocco** US: a tool for diagnosis and outcome measure in Musculoskeletal ultrasound
- 09.30 - 10.00** **P. Mandl** Role of US in the diagnosis of crystal arthropathy and periarticular tissue (gout, CPPD)
- 10.00 - 10.30** **G. Giokits-Kakavouli** US diagnosis of shoulder pathology
- 10.30 - 11.00** **D. Karokis** US diagnosis of wrist and hand pathology
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- 11.00 - 11.15** Coffee break
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- 11.15 - 12.45** **Workshop:** Supervised hands-on scanning of patients with upper extremity pathology
- Chairpersons: **G. Giokits-Kakavouli, J. Raftakis**
- 12.45 - 13.15** **J. Raftakis** US diagnosis of elbow pathology
- 13.15 - 14.15** **Workshop:** Basic skills in sonographic-guided arthrocentesis
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- 14.15 - 15.00** Lunch
-
- 15.00 - 15.15** Exit test of knowledge & closing remarks



APPLICATION FORM

8TH INTERNATIONAL MUSCULOSKELETAL ULTRASOUND COURSE (Basic & Intermediate Level) Athens, December 1st - 3rd, 2022

Surname	
First Name	
Gender	male <input type="checkbox"/> female <input type="checkbox"/>
Level	basic <input type="checkbox"/> intermediate <input type="checkbox"/>
Date of Birth	
Medical Specialty	
Country	
Contact phone number	
Fax number	
Mobile phone number	
e-mail	
Institution (name and address)	
Licence Number	
Sponsor contact details (if applicable)	
Please tick appropriately	
Single Room <input type="checkbox"/>	ACCOMMODATION
Double Room <input type="checkbox"/>	2 nights, arrival 1 st December - departure 3 rd December 2022 <input type="checkbox"/>
	2 nights, arrival 1 st December - departure 3 rd December 2022 <input type="checkbox"/>

Fill-in total amount of participation€

By signing the present application form you agree to receive notifications from Conco Meetings and Events

Applicant's Signature

Application form should be completed, signed and sent by e-mail to: online@concopco.com



A task force for Greek Rheumatologists
Musculoskeletal Imaging Techniques - Ongoing Sonography

01-03
December
2022



8th

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◆ Wyndham Grand Athens, Greece



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