



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

BASIC AND INTERMEDIATE LEVELS

01-03
December
2022



Scientific
Program

8th

International
Musculoskeletal
UltraSoundCourse



Wyndham Grand Athens, Greece

Scientificallly Endorsed by

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EUROPEAN ALLIANCE
OF ASSOCIATIONS
FOR RHEUMATOLOGY



Course Secretariat

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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

Annamaria Iagnocco, Italy

Andreas Diamantopoulos, Norway

Ahmed Abogamal, Egypt

Amalia Raptopoulou, Greece

Andrea DelleSedie, Italy

Caterina Siagkri, Greece

Dimitris Karokis, Greece

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna Giokits-Kakavouli, Greece

Ioannis Raftakis, Belgium

Nemanja Damjanov, Serbia

Peter Balint, Hungary

Peter Mandl, Austria

Slavica Prodanović, Serbia

Instructors

Amalia Raptopoulou, Greece

Ahmed Abogamal, Egypt

Andrea DelleSedie, Italy

Andreas Diamantopoulos, Norway

Athanasios Fortis, Greece

Caterina Siagkri, Greece

Dimitris Karokis, Greece

Dimos Merinopoulos, Greece

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna Giokits-Kakavouli, Greece

Nemanja Damjanov, Serbia

Ioannis Raftakis, Belgium

Peter Balint, Hungary

Peter Mandl, Austria

Slavica Prodanović, Serbia

Theodoros Natskos, Greece

GENERAL INFORMATION

Course's opening**Course's closing****Participants****Official language****Congress Venue**

Thursday, December 1st, 2022 - h 11.30

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

The number of participants in each of the levels is limited

English

Wyndham Grand Hotel, Athens, Greece

Organizer**M.I.T.O.S. GROUP**

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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

11.30 - 12.30	Registration
12.30 - 13.45	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
14.30 - 15.00	Chairpersons: A. Iagnocco, J. Raftakis 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
17.00 - 17.25	Chairpersons: F. Porta, G. Filippou 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
19.30 - 20.00	Chairpersons: A. Iagnocco A. Diamantopoulos 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

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

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 Coffee 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 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

20.00 Dinner

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 - 11.00 Coffee break

11.00 - 11.30 Chairpersons: **J. Raftakis, P. Mandl**
P. Mandl Standardized scanning of the hip: normal and basic pathological findings

11.30 - 12.00 **J. Raftakis** Standardized scanning of the knee: normal and basic pathological findings

12.00 - 12.30 **S. Prodanović** Standardized scanning of the ankle and foot: normal and basic pathological findings

12.30 - 13.15 Lunch

13.15 - 14.45 **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot

Chairpersons: **G. Giokits-Kakavouli, N. Damjanov**
N. Damjanov Basic skills in sonographic guided arthrocentesis

15.15 - 15.45 **Workshop:** Basic skills in sonographic-guided arthrocentesis

15.45 - 16.00 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

11.30 - 12.45	Registration
12.45 - 13.00	Welcome A. Iagnocco, G. Giokits-Kakavouli, D. Karokis
13.00 - 13.15	J. Raftakis Entering test of knowledge - Intermediate Level Chairpersons: A. Iagnocco, J. Raftakis
13.15 - 13.45	J. Raftakis Technical characteristics and setting of ultrasound equipment for Musculoskeletal diseases
13.45 - 15.00	Lunch
15.00 - 15.20	Chairpersons: A. Iagnocco, G. Filippou G. Filippou Doppler physics, technology and artefacts. Doppler setting optimization
15.20 - 15.40	A. Diamantopoulos Application, indications and limitations of Doppler in musculoskeletal US
15.40 -16.00	A. DelleSedie Colour Doppler and Power Doppler. Correlations between US imaging and histopathological findings
16.00 - 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. Iagnocco B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls
19.00 - 19.30	F. Porta B-mode and Doppler tenosynovitis. Definition, detection, quantification and pitfalls
20.00	Dinner



SCIENTIFIC PROGRAM

Friday, December 2nd, 2020

INTERMEDIATE LEVEL

08.00 - 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	P. Balint 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
14.00 - 15.00	Lunch
	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
16.30 - 17.00	Coffee Break
17.00 - 19.00	Workshop: Supervised hands-on scanning of patients with lower extremity pathology
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

11.00 - 13.00

Workshop: Supervised hands-on scanning of patients with upper extremity pathology

13.00 - 14.00 Lunch

Chairpersons: **N. Damjanov, J. Raftakis**

14.00 - 14.20

J. Raftakis US diagnosis of elbow pathology

14.20 - 14.45

N. Damjanov Basic skills in sonographic-guided arthrocentesis

14.45 - 15.50

Workshop: Basic skills in sonographic-guided arthrocentesis

16.00 - 16:15

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			
ACCOMMODATION			
Single Room	<input type="checkbox"/>	2 nights, arrival 1 st December - departure 3 rd December 2022	<input type="checkbox"/>
Double Room	<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



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