

Basic and Intermediate Levels

6th International Musculoskeletal UltraSound Course

28 - 30 Nov 2019
ROYAL OLYMPIC HOTEL, ATHENS
Athens, Greece



UNDER THE AUSPICES:



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



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Scientifically Endorsed by

eular

fighting rheumatic & musculoskeletal
diseases together



ORGANIZATION AND COMMITTEE

Scientific Director:**Prof. Annamaria Iagnocco**Dipartimento Scienze Cliniche e Biologiche,
Università degli Studi di Torino, Turin - Italy**e-mail:** annamaria.iagnocco1@gmail.com**Local Organizer:****M.I.T.O.S. (Musculoskeletal Imaging Techniques: Ongoing Sonography - a Task Force for Greek Rheumatologists)****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:

Organizing Committee**Giasna Giokits Kakavouli****Dimitrios Karokis****Ioannis Raftakis****Caterina Siagkri****Scientific Committee****Dimitrios Karokis****Giasna Giokits Kakavouli****Ioannis Raftakis****Caterina Siagkri****Faculty:***Annamaria Iagnocco, Italy**Ahmed Abogamal, Egypt**Amalia Raptopoulou, Greece**Andrea Delle Sedie, Italy**Caterina Siagkri, Greece**Dimitris Karokis, Greece**Francesco Porta, Italy**Georgios Filippou, Italy**Georgios Kampakis, Greece**Giasna Giokits Kakavouli, Greece**Gkikas Katsifis, Greece**Ioannis Raftakis, Greece**Nemanja Damjanov, Serbia**Peter Balint, Hungary**Slavica Prodanović, Serbia***Instructors:***Amalia Raptopoulou, Greece**Ahmed Abogamal, Egypt**Andrea Delle Sedie, Italy**Caterina Siagkri, Greece**Dimitris Karokis, Greece**Francesco Porta, Italy**Georgios Filippou, Italy**Georgios Kampakis, Greece**Giasna Giokits Kakavouli, Greece**Gkikas Katsifis, Greece**Nemanja Damjanov, Serbia**Ioannis Raftakis, Greece**Peter Balint, Hungary**Slavica Prodanović, Serbia**Theodoros Natskos, Greece*

Course's opening: Thursday, November 28th, 2019 - h 12:00

Course's closing: Saturday, November 30th, 2019 - h 16:30

Participants: The number of participants in each of the Courses will be limited to 48

Official language: English

Congress Venue: ROYAL OLYMPIC HOTEL, ATHENS

Organizer

M.I.T.O.S. GROUP

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CONCO

THE CONFERENCE COMPANY

CONCO MEETINGS & EVENTS

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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 equipments 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 - November 28th, 2019

12:00 - 14:00 **Registration**

12:00 - 13:30 **Lunch**

13:30 - 13:45 **Welcome**

G. Giokits, D. Boumpas, D. Vasilopoulos

13:45 - 14:00 Entering test of knowledge - Basic Level

J. Raftakis

Chairpersons: **D. Karokis, J. Raftakis**

14:15 - 14:45 Technical characteristics and setting of ultrasound equipments for Musculoskeletal diseases

J. Raftakis

14:45 - 15:00 **Mini break - hall changing**

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

15:00 - 15:25 History and basic physics of MSUS

G. Filippou

15:25 - 16:00 Musculoskeletal anatomy. Sonographic pattern of the musculoskeletal tissues

G. Filippou

16:00 - 16:30 Artifacts and misinterpretation in MSUS

F. Porta

16:45 - 17:00 **Coffee break**

17:00 - 18:00 **Workshop:** Supervised use of the US equipment and settings

18:00 - 19:00 **Workshop:** Supervised Ultrasound assessment of the normal musculoskeletal tissues

Chairpersons: **D. Karokis, G. Kampakis**

19:00 - 19:30 Image documentation; reporting of US findings

G. Kampakis

19:30 - 21:00 **Workshop:** Supervised ultrasound scanning of musculoskeletal disorders pathology

SCIENTIFIC PROGRAM

Friday, November 29th, 2019

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

- 09:00 - 09:30 Sonographic semiology:US and correlative anatomy and histology: articular cartilage lesions, cortical abnormalities; Basic pathology of tendons and ligaments (tendinosis, calcifications, tears)
N. Damjanov
Live demo - A. Delle Sedie
- 09:30 - 10:00 Basic synovial US lesions: Enthesitis and enthesopathy
P. Balint
- 10:00 - 10:30 Standardized scanning of the wrist and hand: normal and basic pathological findings
D. Karokis
Live demo - P. Balint
- 10:30 - 11:00 **Coffee break**
- 11:00 - 12:45 **Workshop:** US semiology: normal and basic pathological findings (abnormalities of hyaline cartilage, cortical bone, synovial membrane, tendons, ligaments, bursae)
Chairpersons: **N. Damjanov, C. Siagkri**
- 12:45 - 13:15 Standardized scanning of the shoulder normal and basic pathological findings
C. Siagkri
Live demo - N. Damjanov
- 13:15 - 13:45 Standardized scanning of the elbow: normal and basic pathological findings
A. Raptopoulou
Live demo - N. Damjanov
- 13:45 - 14:30 **Lunch**
- 14:30 - 17:00 **Workshop:** Supervised scanning of the shoulder and the elbow. Normal and basic pathological findings
Chairpersons: **P. Balint, J. Raftakis**
- 17:00 - 17:30 Standardized scanning of the hip: normal and basic pathologic findings
G. Kampakis
Live demo - P. Balint
- 17:30 - 18:00 Standardized scanning of the knee: normal and basic pathological findings
J. Raftakis
Live demo - P. Balint

SCIENTIFIC PROGRAM

Saturday, November 30th, 2019

- 09:00 - 10:45 **Workshop:** Supervised Ultrasound scanning of the hand, wrist and hip.
Normal and basic pathological findings.
- 10:45 - 11:00 **Coffee Break**
Chairpersons: **A. Iagnocco, S. Prodanovic**
- 11:00 - 11:30 Basic synovial US lesions: synovitis, synovial hypertrophy, tenosynovitis and bursitis; Definition, detection and quantification
A. Iagnocco
- 11:30 - 12:00 Standardized scanning of the knee: normal and basic pathological findings
J. Raftakis
Live demo - A.Delle Sedie
- 12:00 - 12:30 Application of US in the management of Musculoskeletal Diseases
A. Iagnocco
- 12:30 - 13:00 **Light lunch**
Chairpersons: **G. Giokits, N. Damjanov**
- 13:00 - 13:30 Basic skills in sonographic guided arthrocentesis
N. Damjanov
- 13:45 - 15:15 **Workshop:** Supervised ultrasound scanning of the knee, ankle and foot.
Normal and basic pathological findings.
- 15:15 - 16:15 **Workshop:** Basic skills in sonographic-guided arthrocentesis
- 16:15 - 16:30 Exit test of knowledge
- 16:30 - 16:45 Closing remarks and certificate issue

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, November 28th, 2019

- 12:00 - 14:00 **Registration**
- 12:00 - 13:30 **Lunch**
- 13:30 - 13:45 **Welcome**
G. Giokits, D. Boumpas, D. Vasilopoulos
- 13:45 - 14:00 Entering test of knowledge - Intermediate Level
J. Raftakis
Chairpersons: **D. Karokis, J. Raftakis**
- 14:15 - 14:45 Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipments for rheumatology
J. Raftakis
- 14:45 - 15:00 **Mini break - hall changing**
- 15:00 - 16:45 **Workshop:** Supervised ultrasound scanning. How to use and set the ultrasound equipment. The choice of appropriate probe and of the Doppler modalities. Optimisation of Doppler settings. Doppler ultrasound artefacts
- 16:45 - 17:00 **Coffee break**
Chairpersons: **A. Delle Sedie, G. Filippou**
- 17:00 - 17:25 Doppler physics, technology and artefacts. Doppler setting optimization
G. Filippou
- 17:25 - 17:50 Application, indications and limitations of Doppler in musculoskeletal US
G. Katsifis
- 17:50 - 18:15 Colour Doppler and power Doppler. Correlations between US imaging and histopathological findings
A. Delle Sedie
Chairpersons: **A. Bachta, F. Porta**
- 18:15 - 18:45 US: a tool for diagnosis and outcome measure in Rheumatology
A. Bachta
- 18:45 - 19:15 B-mode and Doppler tenosynovitis. Definition, detection, quantification and pitfalls
F. Porta

SCIENTIFIC PROGRAM

Friday, November 29th, 2019

- 09:00 - 11:00 **Workshop:** Supervised ultrasound scanning of patients with synovitis and tenosynovitis
Chairpersons: **P. Balint, G. Giokits**
- 11:00 - 11:25 Tendinosis and tendon tear. Definition, detection, quantification and pitfalls
G. Giokits
- 11:25 - 11:50 US bone abnormalities. Definition, detection, quantification and pitfalls
A. Abogamal
- 11:50 - 12:15 B-mode and Doppler enthesopathy and enthesitis. Definition, detection, quantification and pitfalls
P. Balint
- 12:15 - 12:45 US cartilage abnormalities. Definition, detection, quantification and pitfalls
A. Abogamal
- 12:45 - 14:15 **Workshop:** Supervised ultrasound scanning of patients enthesopathy/enthesitis, tendinosis and tendon tear, bone and cartilage abnormalities
- 14:15 - 15:00 **Lunch**
Chairpersons: **G. Giokits, C. Siagkri**
- 15:00 - 15:30 US diagnosis of hip pathology
G. Filippou
Live demo - P. Balint
- 15:30 - 16:00 US diagnosis of knee pathology
G. Giokits
Live demo - P. Balint
- 16:00 - 16:30 US diagnosis of ankle and foot pathology
C. Siagkri
Live demo - P. Balint
- 16:30 - 17:00 **Coffee Break**
- 17:00 - 19:30 **Workshop:** Supervised hands-on scanning of patients with lower extremity pathology

SCIENTIFIC PROGRAM

Saturday, November 30th, 2019

Chairpersons: **J. Raftakis, D. Karokis**

09:00 - 09:30 US diagnosis of shoulder pathology
G. Giokits

Live demo - N. Damjanov

09:30 - 10:00 US diagnosis of elbow pathology
J. Raftakis

Live demo - N. Damjanov

10:00 - 10:30 US diagnosis of wrist and hand pathology
D. Karokis

Live demo - N. Damjanov

10:30 - 10:45 **Coffee Break**

10:45 - 12:30 **Workshop:** Supervised hands-on scanning of patients with upper extremity Pathology

12:30 - 13:00 **Light Lunch**

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

13:00 - 13:30 Basic skills in sonographic-guided arthrocentesis
N. Damjanov

Chairpersons: **A. Iagnocco**

13:45 - 14:15 US in therapy monitoring
S. Prodanovic

14:15 - 14:45 B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls
A. Iagnocco

14:45 - 16:15 **Workshop:** Basic skills in sonographic-guided arthrocentesis

16:15 - 16:30 Exit tests of knowledge

16:30 - 16:45 Closing remarks and certificate issues



APPLICATION FORM

**6th INTERNATIONAL MUSCULOSKELETAL ULTRASOUND COURSE
(Basic & Intermediate Level), Athens, November 28th - 30th 2019**

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 28 th November - departure 30 th November 2019 <input type="checkbox"/>
Double room <input type="checkbox"/>	2 nights, arrival 28 th November - departure 30 th November 2019 <input type="checkbox"/>

Fill In total amount of participation€

By signing the present application form you agree to receive notifications from Synthesis Group.
In case you do not wish to receive notifications, please check this box.

Applicant's Signature

Application form should be signed and sent by **e-mail**: congress@cocncopco.com



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CONCO MEETINGS & EVENTS

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