

Basic and Intermediate Levels

4th International Musculoskeletal Ultrasound Course



General information
and Course program

30 November - 2 December 2017

Wyndham Grand Athens Hotel

Athens Greece

www.synthesispc.com/mitocourse2017

Scientifically Endorsed by **eular**

4th INTERNATIONAL MUSCULOSKELETAL ULTRASOUND COURSE BASIC AND INTERMEDIATE LEVEL

Athens, November 30th – December 2nd 2017

The **4th International Ultrasound Course for Rheumatologists, taking place in Athens, Greece in 2017**, intends to be a combination of lectures and practical sessions. It is going to be a two-level course – the basic and the intermediate – consisting of theoretical talks and supervised hands-on scanning of healthy persons and/or patients with musculoskeletal disorders.

Sponsorship: ABBVIE, BRISTOL-MYERS SQUIBB, ENORASIS, GLAXOSMITHKLINE, GENESIS PHARMA, JANSSEN CILAG, MSD, NOVARTIS, PFIZER, ROCHE, UCB. The total amount of sponsorship will not exceed 40% of the total cost for the Course. General Electric, Papapostolou, Esaote, Toshiba, Dormed, Medworks will provide ultrasound equipment free of charge. Sponsorships will cover part of the travel and accommodation expenses for the faculty, course venue and organization costs. Sponsors will not have any influence on the course program, scientific and other content, or speakers in any way.

CME Credits

The course will apply for EACCME/UEMS credits of continuing medical education.

Registration

Registration is intended to be open to all EULAR member countries. Participants registering for the basic MSUS course endorsed by EULAR will have priority if they have already participated in the EULAR Online Introductory US course.

Participation fees

The basic registration fee of 300 € includes admission to all conference sessions, workshops, conference kit, conference session materials, certificate of attendance. If accommodation (for two nights – single room) and coffee breaks and meals needed, the total course participation fee will be 750 €.

ORGANIZATION AND COMMITTEE

Scientific Director

Prof. Annamaria Iagnocco

Dipartimento Scienze Cliniche e Biologiche, Università degli Studi di Torino,
Turin - Italy

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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:

Faculties:

Annamaria Iagnocco, Italy

Amalia Raptopoulou, Greece

Arthur Bacht, Poland

Caterina Siagkri, Greece

Dimitris Karokis, Greece

Emilio Filippucci, Italy

Esperanza Naredo, Spain

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna G. Kakavouli, Greece

Goran Radunović, Serbia

Ioannis Raftakis, Greece

Mihaela Micu, Romania

Nemanja Damjanov, Serbia

Peter Balint, Hungary

Slavica Prodanović, Serbia

Instructors:

Amalia Raptopoulou, Greece

Arthur Bacht, Poland

Athanasios Fortis, Greece

Caterina Siagkri, Greece

Dimitris Karokis, Greece

Emilio Filippucci, Italy

Francesco Porta, Italy

Georgios Filippou, Italy

Giasna G. Kakavouli, Greece

Goran Radunović, Serbia

Ioannis Papadopoulos, Switzerland

Ioannis Raftakis, Greece

Mihaela Micu, Romania

Slavica Prodanović, Serbia

Theodoros Natskos, Greece

Violeta Maria Vlad, Romania

GENERAL INFORMATION

Course's opening	Thursday, November 30 th , 2017 - h 12.00
Course's closing	Saturday, December 02 nd , 2017- h 16:30
Participants	The number of participants in each of the Courses will be limited to 48
Official language	English
Congress Venue:	Wyndham Grand Athens Hotel Athens, Greece

M.I.T.O.S. GROUP



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Contact and Technical Organizer



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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 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 30th, 2017

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|--------------|---|----------------------------|
| 12.00-14.00 | Registration | |
| 12:00-13:45 | Lunch | |
| 13:45-14:00 | Welcome | HERA MEETING ROOM |
| | A. Iagnocco, D. Karokis, D. Boumpas | |
| 14:00-14:15 | Entering test of knowledge – Basic Level | |
| | I. Raftakis | |
| 14.15-14.30 | Entering test of knowledge – Intermediate Level | |
| | I. Raftakis | |
| | Chairpersons: D. Karokis, I. Raftakis | |
| 14.30 –15.00 | Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipment for rheumatology | |
| | I. Raftakis | |
| 15.00-15.15 | Mini break | |
| 15.15-16.45 | Workshop: Supervised practical handling of the ultrasound machine settings | ATHINA MEETING ROOM |
| 16.45-17.00 | Coffee Break | |
| | Chairpersons: F. Porta, A. Bachtá | HERA MEETING ROOM |
| 17.00-17.25 | History and basic physics of MSUS | |
| | A. Bachtá | |
| 17.25-18.00 | Normal tissue and joint anatomy. US and correlative anatomy and histology | |
| | G. Radunović | |
| 18.00-18.30 | Artifacts and misinterpretation in MSUS | |
| | F. Porta | |
| 18.30-19.30 | Workshop: Supervised practical handling of the normal MSUS anatomy | ATHINA MEETING ROOM |
| | Chairpersons: D. Karokis, V.M. Vlad | HERA MEETING ROOM |
| 19.30-20.00 | Doppler physics and techniques. Colour and Power Doppler settings and its optimization | |
| | V.M. Vlad | |
| 20.00-21.00 | Workshop: Hands - on session. The Doppler basics - application | ATHINA MEETING ROOM |

SCIENTIFIC PROGRAM

Friday, December 1st, 2017

- 09.00-09.30 Chairpersons: **A. Iagnocco, G.G. Kakavouli** **HERA MEETING ROOM**
 Sonographic semiology: tendinosis, partial and complete tendon tear, calcifications, articular cartilage lesions, cortical abnormalities, erosions - definition, detection and quantification
N. Damjanov
- 09.30-10.00 Basic US lesions: synovitis, tenosynovitis and bursitis. Definition, detection and quantification
A. Iagnocco
- 10.00-10.30 Enthesitis and enthesopathy
P. Balint
- 10.30-11.00 **Coffee Break**
- 11.00-12.45 **Workshop: US semiology: normal and basic pathological findings** **ATHINA MEETING ROOM**
 Chairpersons: **N. Damjanov, C. Siagri** **HERA MEETING ROOM**
- 12.45-13.15 Standardized scanning of shoulder normal and basic pathological findings
C. Siagri
- 13.15-13.45 Standardized scanning of the elbow: normal and basic pathological findings
A. Raptopoulou
- 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** **ATHINA MEETING ROOM**
 Chairpersons: **A. Iagnocco, M. Micu** **HERA MEETING ROOM**
- 17.00-17.30 Standardized scanning of the wrist and hand: normal and basic pathological findings
D. Karokis
- 17.30-18.00 Standardized scanning of the hip: normal and basic pathologic findings
M. Micu

SCIENTIFIC PROGRAM

Saturday, December 2nd, 2017

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|-------------|---|----------------------------|
| 09.00-10.45 | Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative hand, wrist and hip | ATHINA MEETING ROOM |
| 10.45-11.00 | Coffee Break | |
| 11.00-11.30 | Chairpersons: P. Balint, E. Filippucci
Standardized scanning of the knee: normal and basic pathological findings | HERA MEETING ROOM |
| 11.30-12.00 | E. Naredo
Standardized scanning of the ankle and foot: normal and basic pathological findings | |
| 12.00-12.30 | S. Prodanović
US Application in management of Musculoskeletal Disorders | |
| 12.30-14.00 | A. Iagnocco
Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot | ATHINA MEETING ROOM |
| 14.00-14.30 | Chairpersons: G.G. Kakavouli, N. Damjanov
Basic skills in sonographic guided arthrocentesis | HERA MEETING ROOM |
| 14.30-15.30 | N. Damjanov
Workshop: Basic skills in sonographic-guided arthrocentesis | ATHINA MEETING ROOM |
| 15.30-15.45 | Exit test of knowledge and closing remarks | |
| 15.45-16.45 | Lunch and certificate issuing | |

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, enthesitis 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 30th, 2017

- 12.00-14.00 **Registration**
- 12.00-13.45 **Lunch**
- 13.45-14.00 **Welcome**
A. Iagnocco, D. Karokis, D. Boumpas **HERA MEETING ROOM**
- 14.00-14.15 Entering test of knowledge - Basic Level
I. Raftakis
- 14.15-14.30 Entering test of knowledge - Intermediate Level
I. Raftakis
- 14.30-15.00 **Chairpersons: D. Karokis, I. Raftakis**
 Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipments for rheumatology
I. Raftakis
- 15.00-15.15 **Mini break**
Chairpersons: G. Filippou, P. Balint **HERA MEETING ROOM**
- 15.15-15.45 Colour Doppler and Power Doppler (i.e. basis, optimizing setting and applications)
G. Filippou
- 15.45-16.15 Colour and Power Doppler artifacts
P. Balint
- 16.15-16.45 **Coffee Break**
- 16.45-18.30 **Workshop: Supervised practical** **ATHINA MEETING ROOM**
 handling on the US machine settings. Sonoanatomy: correct acquisition of images in normal musculoskeletal structures (muscles, tendons, bursae, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsules and bony profile). Colour and Power Doppler settings and its optimization
- 18.30-19.00 **Chairpersons: A. Iagnocco, F. Porta** **HERA MEETING ROOM**
 B-mode and Doppler synovitis, tenosynovitis, tendinosis and tendon tear. Detection and pitfalls
P. Balint
- 19.00-19.30 Basic US lesions: cartilage and bone lesions in osteoarthritis
F. Porta

SCIENTIFIC PROGRAM

Friday, December 1st, 2017

- 09.00-11.00 **Workshop:** US semiology: pathological findings. **ATHINA MEETING ROOM**
 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
- 11.00-11.20 Chairpersons: **A. Iagnocco, G.G. Kakavouli** **HERA MEETING ROOM**
 Basic US lesions: tendinopathies, tenosynovitis. Validation and scoring of synovial, tenosynovial inflammation
A. Iagnocco
- 11.20-11.45 Basic US lesions: synovitis, bony cortex and cartilage. Definition, detection and quantification
G. Filippou
- 11.45-12.15 Basic US lesions: enthesitis, enthesopathy and validation and scoring of enthesal inflammation
P. Balint
- 12.15-12.45 Carpal Tunnel Syndrome & Ultrasound
E. Filippucci
- 12.45-14.00 **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative joint and periarticular soft tissues disorders. How to detect and quantify musculoskeletal lesions **ATHINA MEETING ROOM**
- 14.00-15.00 **Lunch**
- 15.00-15.30 Chairpersons: **P. Balint, G.G. Kakavouli** **HERA MEETING ROOM**
 Standardized scanning of the inflammatory and degenerative shoulder
G.G. Kakavouli
- 15.30-16.00 Standardized scanning of the inflammatory and degenerative elbow
I. Raftakis
- 16.00-16.30 Standardized scanning of the inflammatory and degenerative hand and wrist
D. Karokis
- 16.30-17.00 **Coffee Break**
- 17.00-19.00 **Workshop:** Supervised hands-on scanning of patients with inflammatory and degenerative shoulder, elbow, hand and wrist **ATHINA MEETING ROOM**

SCIENTIFIC PROGRAM
Saturday, December 2nd, 2017

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|-------------|---|----------------------------|
| | Chairpersons: M. Micu, N. Damjanov | HERA MEETING ROOM |
| 09.00-09.30 | Role of US in the diagnosis of crystal arthropathy | |
| | E. Filippucci | |
| 09.30-10.00 | Standardized scanning of the inflammatory and degenerative hip | |
| | M. Micu | |
| 10.00-10.30 | Standardized scanning of the inflammatory and degenerative knee | |
| | G.G. Kakavouli | |
| 10.30-10.45 | Coffee Break | |
| 10.45-11.30 | Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative hip | ATHINA MEETING ROOM |
| 11.30-12.30 | Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot | ATHINA MEETING ROOM |
| | Chairpersons: C. Siagkri, A. Iagnocco | HERA MEETING ROOM |
| 12.30-13.00 | Standardized scanning of the inflammatory and degenerative ankle and foot | |
| | C. Siagkri | |
| 13.00-13.30 | US in sport medicine and traumatic conditions | |
| | A. Bachta | |
| 13.30-14.00 | Basic skills in sonographic-guided arthrocentesis | |
| | N. Damjanov | |
| 14.00-15.00 | Workshop: Basic skills in sonographic-guided arthrocentesis | ATHINA MEETING ROOM |
| 15.00-15.15 | Exit tests of knowledge and closing remarks | |
| 15.15-16.45 | Lunch and certificate issuing | |



APPLICATION FORM

4th INTERNATIONAL MUSCULOSKELETAL ULTRASOUND COURSE
(Basic & Intermediate Level), Athens, November 30th – December 2nd 2017

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)			
License Number			
Sponsor contact details (if applicable)			
Please tick appropriately			
	ACCOMMODATION		
Single room <input type="checkbox"/>	2 nights, arrival 30 th November – departure 2 nd December 2017		<input type="checkbox"/>
Double room <input type="checkbox"/>	2 nights, arrival 30 th November – departure 2 nd December 2017		<input type="checkbox"/>

Fill in total amount of participation €

Applicant's Signature

Application form should be signed and sent by **fax**: +30 210 4190905
 Or scanned and sent by **e-mail**: tzombola@synthesispco.com



MITOS

Musculoskeletal Imaging Techniques
Ongoing Sonography
A task force for Greek Rheumatologists

