

General information and Course program

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3rd MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS – BASIC AND INTERMEDIATE LEVEL

Athens, December 01st- 03rd, 2016

Musculoskeletal sonography course for rheumatologists, Athens 2016 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, UCB, MSD, PFIZER, GE, ESAOTE, SIEMENS, PHILIPS. Total amount of sponsorship will not exceed 40% of total cost for the Course. General Electric Health Care, Esaote, Siemens and Philips will provide ultrasound equipment free of charge. Sponsorships will cover part of 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 & Accommodation fees

The basic registration fee of 200 euros 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 increased up to 600 euros.

ORGANIZATION AND COMMITTEE

Scientific Director:

Prof. Annamaria lagnocco

Rheumatology Unit, Dipartimento di Medicina Interna e Specialità Mediche, Sapienza Università di Roma, Roma, 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:

Faculties:

Esperanza Naredo, Spain

Peter Balint, Hungary

Nemanja Damjanov, Serbia

Annamaria lagnocco, Italy

Emilio Filippucci, Italy

Francesco Porta, Italy

Dimitris Karokis, Greece

Ioannis Raftakis, Greece

Spyros Nikas, Greece

Amalia Raptopoulou, Greece

Caterina Siagkri, Greece

Slavica Prodanović, Serbia

Mihaela Micu, Romania

Artur Bachta, Poland

Giasna G. Kakavouli, Greece

Instructors:

Francesco Porta, Italy

Slavica Prodanović, Serbia

Goran Radunović, Serbia

Dimitris Karokis, Greece

Ioannis Raftakis, Greece

Spyros Nikas, Greece

Georgios Kampakis, Greece

Amalia Raptopoulou, Greece

Caterina Siagkri, Greece

Mihaela Micu, Romania

Artur Bachta, Poland

Giasna G.Kakavouli, Greece



GENERAL INFORMATION

Course's opening Thursday, December 01st, 2016 - h 12.00 **Course's closing** Saturday, December 03rd, 2016 - 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, 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.



Thursday - December 1 st , 2016			
12.00-14.00	Registration		
12.00-13.45	Lunch		
13.45-14.00	Welcome A. lagnocco, N. Damjanov, H. Berberidis, D. Karokis, D. Boumpas		
14.00-14.10	Entering test of knowledge – Basic Level J. Raftakis		
14.15-14.30	Entering test of knowledge – Intermediate Level J. Raftakis		
14.30-15.00	Chairpersons: E. Naredo, J. Raftakis Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipments for rheumatology J. Raftakis		
15.00-15.15	Mini break – hall changing		
15.15-16.45	Workshop: Supervised practical handling of the ultrasound machine settings		
16.45-17.00	Coffee Break		
17.00-17.25	Chairpersons: F. Porta, S. Nikas History and basic physics of MSUS. S. Nikas		
17.25-18.00	Normal tissue and joint anatomy. US and correlative anatomy and histology N. Damjanov		
18.00-18.30	Artifacts and misinterpretation in MSUS. F. Porta		
18.30-19.30	Workshop: Supervised practical handling of the normal MSUS anatomy		
19.30-20.00	Chairpersons: D. Karokis, E. Naredo Doppler physics and techniques. Colour and Power Doppler settings and its optimization E. Naredo		
20.00-21.00	Workshop: Hands - on session. The Doppler basics - application		

Friday, December 2nd, 2016

09.00-09.30	Chairpersons: A. lagnocco, G.G. Kakavouli 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. lagnocco
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
12.45-13.15	Chairpersons: E. Naredo, C. Siagkri Standardized scanning of shoulder normal and basic pathological findings C. Siagkri
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.
17.00 17.20	Chairpersons: P.Balint, G.Radunovic
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



Saturday, December 3 rd , 2016			
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: S. Nikas, A. Raptopoulou Standardized scanning of the knee: normal and basic pathological findings S. Nikas		
11.30-12.00	Standardized scanning of the ankle and foot: normal and basic pathological findings S. Prodanović		
12.00-12.30	US Application in Rheumatology A. lagnocco		
12.30-14.00	Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot		
14.00-14.30	Chairpersons: G.G. Kakavouli, E. Filippucci Basic skills in sonographic guided arthrocentesis. E. Filippucci		
14.30-15.30	Workshop: Basic skills in sonographic-guided arthrocentesis		
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, tendinopahties, 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



Thursday - De	ecember 1st, 2016
12.00-14.00	Registration
12.00-13.45	Lunch
13.45-14.00	Welcome A. lagnocco, N. Damjanov, H. Berberidis, D. Karokis, D. Boumpas
14.00-14.15	Entering test of knowledge - Basic Level J. Raftakis
14.15-14.30	Entering test of knowledge – Intermediate Level J. Raftakis
14.30-15.00	Chairpersons: E. Naredo, J. Raftakis Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipments for rheumatology. J. Raftakis
15.00-15.15	Mini break – hall changing
15.15-15.45	Chairpersons: E. Naredo, D. Karokis Colour Doppler and Power Doppler (i.e. basis, optimizing setting and applications) E. Naredo
15.45-16.15	Colour and Power Doppler artifacts E. Naredo
16.15-16.45	Coffee Break
16.45-18.30	Workshop: Supervised practical 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. lagnocco, P. Balint Basic US lesions: synovitis, bony cortex and cartilage. Definition, detection and quantification. A. Bachta
19.00-19.30	Basic US lesions: cartilage and bone lesions in osteoarthritis F. Porta

Friday, December 2 nd , 2016			
08.00-09.30	Workshop: US semiology: pathological findings		
09.00-11.00	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.		
11.00-11.20	Chairpersons: A.lagnocco , P. Balint Basic US lesions: tendinopathies, tenosynovitis. A. lagnocco		
11.20-11.45	B-mode and Doppler synovitis, tenosynovitis, tendinosis and tendon tear. Detection and pitfalls N. Damjanov		
11.45-12.15	Basic US lesions: enthesitis, enthesopathy		
12.15-12.45	P. Balint B-mode and Doppler enthesopathy and enthesitis. Detection and pitfalls 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		
14.00-15.00	Lunch		
15.00-15.30	Chairpersons: F. Porta, G.G. Kakavouli Standardized scanning of the inflammatory and degenerative shoulder.		
15.30-16.00	G.G. Kakavouli Standardized scanning of the inflammatory and degenerative elbow		
16.00-16.30	J. Raftakis 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		



Saturday, De	cember 3 rd , 2016
09.00-09.30	Chairpersons: C. Siagkri, E. Filippucci Standardized scanning of the inflammatory and degenerative hip. M. Micu
09.30-10.00	Standardized scanning of the inflammatory and degenerative knee. G.G. Kakavouli
10.00-10.30	Standardized scanning of the inflammatory and degenerative ankle and foot. C. Siagkri
10.30-10.45	Coffee Break
10.45-11.30	Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative hip
11.30-12.30	Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative knee, ankle and foot
	Chairpersons: C. Siagkri, A. lagnocco
12.30-13.00	Role of US in the diagnosis of crystal arthropathy E. Filippucci
13.00-13.30	Validation and scoring of synovial, tenosynovial and entheseal inflammation
13.30-14.00	A. lagnocco Basic skills in sonographic-guided arthrocentesis N. Damjanov
14.00-15.00	Workshop: Basic skills in sonographic-guided arthrocentesis
15.00-15.15	Exit tests of knowledge and closing remarks
15.15-16.45	Lunch and certificate issuing

APPLICATION FORM

3rd MUSCULOSKELETAL ULTRASOUND COURSE (Basic & Intermediate Level), Athens, December 1st – 3rd, 2016

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Surname							
First name							
Gender	male	female					
Level	basic	intermediate (
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						
	ACCOMM	IODATION					
Single room	2 nights, arrival 1st – departure	3 rd of December 2016					
Double room	2 nights, arrival 1 st – departure	3 rd of December 2016					
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





Musculoskeletal Imaging Techniques Ongoing Sonography A task force for Greek Rheumatologists