

# MUSCULOSKELTAL SONOGRAPHY COURSE

InterMediate Level

15 – 17 September, 2017

Dubai, UAE

*Organizing Office:  
Compass Conferences*



"EULAR endorsed course"

**eular**  
fighting rheumatic & musculoskeletal  
diseases together

## Organizers

Ingrid Möller (Scientific Organizer)  
Esperanza Naredo (Scientific Organizer)  
Ayman Fahim (Organizer)

## Faculty

Esperanza Naredo (Spain), MD PhD. Faculty member of the EULAR MSUS courses since 2000  
Marina Backhaus (Germany), MD PhD. Faculty member of the EULAR MSUS courses since 2000  
Lene terslev, (Denmark), MD PhD. Faculty member of the EULAR MSUS courses since 2005  
Ingrid Möller (Spain), MD PhD. Faculty member of the EULAR MSUS courses since 2007  
Hilde Hammer (Norway), MD PhD Faculty member of the EULAR MSUS courses since 2010  
Nemanja Damjanov (Serbia), MD PhD. Faculty member of the EULAR MSUS courses since 2010  
David Bong (Spain), MD Faculty member of the EULAR MSUS courses since 2011.  
Ayman Fahim (Egypt), (M.B.Ch.B., M.Sc., Board Certified),  
Georgios Filippou (Italy), MD PhD. Faculty member of the EULAR MSUS courses  
Adham Aboul Fotouh Khalil (Egypt), MD EULAR certified MSUS tutor

## Venue and dates

Hyat Regency Hotel, Dubai, UAE.  
Three days programme, 15<sup>th</sup>, 16<sup>th</sup>, and 17<sup>th</sup> September 2017  
**Course opening:** Friday 15<sup>th</sup> September 2017 at 08:00 hrs  
**Course closing:** Sunday 17th September 2017 at 18:30 hrs

## **Presentation**

Musculoskeletal Ultrasound (MSUS) is increasingly being used by Rheumatologists, Orthopaedics, and Sport and Medical Physicians for the diagnosis and management of musculoskeletal disorders in daily practice worldwide. The European League Against Rheumatism (EULAR) has promoted education in MSUS for the last 15 years with very successful results. Currently, there is a great need and demand for education on MSUS in Gulf and Middle East.

The basic MSUS course aims to give the participants the opportunity to learn the sonoanatomy, the ultrasound scanning technique of the musculoskeletal system, and the basic MSUS lesions and abnormalities under the guidance of expert rheumatologist and radiologist ultra-sonographers.

## **Course structure**

The Course will be a combination of lectures and hands-on scanning of models and/or patients with MusculoSkeletal disorders in small groups with experienced tutors.

The Workshops of hands-on scanning will be in small groups (5-6 participants per tutor and ultrasound machine) with experienced tutors.

## **Participants**

### **Number of Participants:**

- Minimum 30 participants, Maximum and expected 60 participants.
- Small groups of 5 - 6 participants each.

## **Official Language**

English.

## **Web site**

[www.emiratesmsus.com](http://www.emiratesmsus.com)  
[www.compassconferences.com](http://www.compassconferences.com)

## Course Description

This **Intermediate Course** will focus on a wide spectrum of rheumatic pathologies. Previous performance of musculoskeletal UltraSound scans and attendance of a basic musculoskeletal UltraSound course (either as a EULAR course, a EULAR Scientifically Endorsed course, or a national course) is mandatory before participating in an intermediate-level course. Other equal training qualifications can be evaluated upon request.

### Learning objectives

- To know the Doppler physics, technology and artefacts
- To know the application, indications and limitations of Doppler in Rheumatology
- To optimize Doppler settings
- To use color and power Doppler to detect synovial and enthesal inflammation
- To detect structural joint damage (i.e. bone, tendons, cartilage)
- To perform sonographic-guided periarticular and articular injections
- To identify the spectrum of musculoskeletal abnormalities in each anatomic area (e.g. joint synovitis, Tenosynovitis, enthesopathy/enthesitis, tendinosis/tendinitis, paratenonitis, dactylitis, tendon luxation, tendon impingement, tendon tears, bone erosions, osteophytes, ganglia and cysts, articular cartilage lesions, peri- and intra-articular microcrystal deposit, soft tissue calcifications)

### **Course Certification**

A certificate of attendance will be supplied.

### **Course Evaluation**

An evaluation of the course (i.e. educational content, teaching capability, course organization and venue) will be performed by the participants at the end of the course.

### **Registration**

Registration is open to all EULAR member countries. This course is recommended for Rheumatologists, Orthopaedics, Sport Surgeons and Medical Physicians, Radiologists, Anaesthetists, Psychiatrist, Physiotherapists and other specialties who are interested in incorporating MSUS into their clinical practice.

### **Registration Fee**

The following options are considered as the course fee for the participants:

- A) Option 1: Course, Educational material, Coffee Breaks & Meals announced within the program (Fee: 1000€).
- B) Option 3: Course, Educational material, Coffee Breaks & Meals announced within the program, Standard Accommodation (3 nights in the Venue Hotel) (Fee: 1300€).

### **Organizing Secretariat**

Amina Mouhssene



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## Contact Person

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- **Reference:** (1) E Naredo, J W J Bijlsma, P G Conaghan, C Acebes, P Balint, H Berner-Hammer, IG A W Bruyn, P Collado, M A D'Agostino, J J de Agustin, E de Miguel, E Filippucci, W Grassi, A Iagnocco, D Kane, J M Koski, B Manger, L Mayordomo, I Möller, C Moragues, E Rejón, M Szkudlarek, L Terslev, J Uson, R J Wakefield and W A Schmidt. Recommendations for the content and conduct of musculoskeletal ultrasound courses European League Against Rheumatism (EULAR). *Ann Rheum Dis* 2008; 67:1017-1022

**Full Programme**

**Intermediate Course - Day 1 - Friday, September 15<sup>th</sup>, 2017**

08.00 - 09.00	Registration –Welcome Reception	
09.00 - 09.15	Welcome - Introduction	Ingrid
09.15 - 09.45	Doppler physics, technology and artefacts. Doppler setting optimization.	Terslev
	<b>Live demo</b>	Terslev
09.45 - 10.15	Application, indications and limitations of Doppler in Rheumatology	Naredo
10.15 - 10.30	Coffee break	
10.30 - 11.30	<b>Workshop:</b> Supervised practical handling of the color and power Doppler US machine settings. Doppler artefacts.	<b>Faculty</b>
11.30 - 12.00	B-mode and Doppler synovitis. Definition, detection and pitfalls	Naredo
12.00 - 12.30	B-mode and Doppler tenosynovitis. Definition, detection and pitfalls	Hammer
12.30 - 14.00	Lunch	
14.00 - 15.15	<b>Workshop</b> Supervised hands-on scanning of patients with synovitis and tenosynovitis	<b>Faculty</b>
15.15 - 15.45	B-mode and Doppler enthesopathy and enthesitis. Definition, detection and pitfalls	Adham
15.45 - 16.15	B-mode and Doppler tendinosis and tendon tear. Definition, detection and pitfalls	Backhaus
16.15 - 16.35	US cartilage abnormalities. Definition, detection and pitfalls	Hammer
16.35 - 17.00	Validity and role of US in crystal-related arthropathies	Backhaus
17.00 - 17.15	US bone abnormalities. Definition, detection and pitfalls	G.Filippou
17.15 - 17.30	Coffee break	
17.30 - 19.00	<b>Workshop</b> Supervised hands-on scanning of patients with enthesopathy/enthesitis, tendinosis and tendon tear, bone and cartilage abnormalities, and crystal-related arthropathies	<b>Faculty</b>

## Intermediate Course - Day 2 - Saturday, September 16<sup>th</sup>, 2017

07.45 - 08.00	Registration – Welcome Reception	
08.00 - 08.45	US diagnosis of Hip pathology.	Moller
	Live demo	Bong
08.45 - 09.30	US diagnosis of Knee pathology.	Damjanov
	Live demo	Fahim
09.30 - 10.15	US diagnosis of Elbow pathology.	Moller
	Live demo	Terslev
10.15 - 10.30	Coffee break	
10.30 - 12.30	<b>Workshop:</b> Supervised hands-on scanning of patients with inflammatory and degenerative disorders of Elbow, Hip and Knee.	<b>Faculty</b>
12.30 - 14.00	Lunch	
14.00 - 15.00	US diagnosis of Wrist and Hand pathology.	Bong
	Live demo	Damjanov
15.00 - 16.00	US diagnosis of Ankle and Foot pathology.	Bong
	Live demo	Backhaus
16.00 - 16.30	Coffee break	
16.30 - 18.30	<b>Workshop</b> Supervised hands-on scanning of patients with inflammatory and degenerative disorders of Wrist/Hand and Ankle/Foot	<b>Faculty</b>



## Intermediate Course - Day 3 - September 17<sup>th</sup>, 2017

07.45 - 08.00	Registration – Welcome Reception	
08.30 - 10.00	Sonographic-guided periarticular and articular injections.	Fahim
	Demo	Terslev
10.00 - 10.30	Coffee break	
10.30 -12.00	<b>Workshop</b> Supervised sonographic-guided injections	<b>Faculty</b>
12.00 - 14.00	Lunch	
14.00 - 15.30	US diagnosis of Shoulder pathology	Möller
	Live demo with pathologic models – (Slides presentation is an alternative)	Möller
15.30 -17.00	<b>Workshop:</b> Supervised hands-on scanning of patients with Shoulder inflammatory and degenerative disorders	<b>Faculty</b>
17.00 - 17.30	Coffee break	
17.30 -18.00	Validity and role of US in Psoriatic Arthritis: dactylitis, enthesitis, and synovial involvement	G.Filippou
18.00 -18.30	Closing Remarks	