

26th Sonography Course – MSUS Advanced

Madrid, Spain

Sunday, 9th June – Wednesday, 12th June 2019



The 26th EULAR Sonography Course will be run simultaneously at three levels, basic, intermediate and advanced, each of them being a combination of lectures and hands-on scanning of models and/or patients with musculoskeletal disorders in small groups with experienced tutors. The course has been designed following the recommendations for the content and conduct of EULAR musculoskeletal ultrasound courses (Naredo E, Bijlsma JWW, et al. Ann Rheum Dis 2008; 67:1017-22).

ORGANISATION & COMMITTEE

Organisers

- Esperanza Naredo
- Ingrid Möller
- Jacqueline Uson

Faculty

Carlos Acebes, Spain; **Marina Backhaus**, Germany; **Peter Balint**, Hungary; **David Bong**, Spain; **George AW Bruyn**, The Netherlands; **Paz Collado**, Spain; **Maria Antonietta D'Agostino**, France; **Nemanja Damjanov**, Serbia; **Andrea Delle Sedie**, Italy; **Eugenio de Miguel**, Spain; **Uffe Møller Døhn**, Denmark; **Andrew Filer**, UK; **Emilio Filippucci**, Italy; **Frederique Gandjbakhch**, France; **Walter Grassi**, Italy; **Hilde Berner Hammer**, Norway; **Annamaria Iagnocco**, Italy; **Sandrine Jousse-Joulin**, France; **David Kane**, Ireland; **Zunaid Karim**, UK; **Marion C. Kortekaas**, The Netherlands; **Juhani M Koski**, Finland; **Peter Mandl**, Austria; **Ingrid Möller**, Spain; **Esperanza Naredo**, Spain; **Ana Rodríguez**, Spain; **Wolfgang Schmidt**, Germany; **Maria Stoenoiu**, Belgium; **Nanno Swen**, The Netherlands; **Marcin Szkudlarek**, Denmark; **Lene Terslev**, Denmark; **Jacqueline Uson**, Spain; **Richard J Wakefield**, UK.

Special Guest Faculty

Mikael Boesen, Denmark; **Jose Antonio Bouffard**, USA; **Klaus-V. Jenderka**, Germany; **Carlo Martinoli**, Italy; **Jorge Short**, Spain; **Jacob M. van Laar**, The Netherlands; **Ximena Wortsman**, Chile.

Hands-on Tutors

Maria Alcalde, Spain; **Cristina Bohorquez**, Spain; **Carmen Cerón**, Colombia; **Mario Chávez**, México; **Cristina Estracht**, UK; **Daniela Fodor**, Romania; **Petra Hanova**, Czech Republic; **Ana Lois-Iglesias**, Spain; **Cristina Macía-Villa**, Spain; **Mihaela Micu**, Romania; **Rodina Liceva Nestorova**, Bulgaria; **Cristina Macía-Villa**, Spain; **Diana Peiteado**, Spain; **Fernando Saraiva**, Portugal; **Giorgio Tamborrini**, Switzerland; **Plamen Todorov**, Bulgaria; **Esther Vicente**, Spain; **Violeta Vlad**, Romania.

Organising secretariat

EULAR School of Rheumatology
Seestrasse 240, CH-8802 Kilchberg/Zurich
Switzerland

T: +41 44 716 30 30

F: +41 44 716 30 39

W: www.eular.org

E: education@eular.org

GENERAL INFORMATION

Course venue and hotel

Hotel Meliá Avenida América

Calle Juan Ignacio Luca de Tena, 36, 28027 Madrid, Spain

T: +34914232400

F: +34913201440

melia.avenida.america@melia.com

Course dates

9th June (Start at 14:30), 10th June (full day), 11th June (full day), 12th June (End at 12:30)

Participants

- 50 participants maximum

Official language

English

Application requirement(s)

- 30 slides (PowerPoint presentation) each showing pathological images of the full range of conditions included in the basic and intermediate levels, each slide showing 1 lesion/abnormality in both longitudinal and traverse plane (60 images in total, two per slide), representative of the following joint regions : shoulder, elbow, wrist & hand, hip, knee, ankle & foot, with legend of the anatomic area, imaged structure, scanning planes, ultrasound mode and main machine settings, description of the ultrasound lesion/abnormality and ultrasound diagnosis. Identity of the person scanned should be removed.
- Basic Level - Certification proofs for either:
 - Basic EULAR MSUS Course certificate
 - Or
 - Basic EULAR scientifically endorsed MSUS course attendance
 - Or
 - Other equivalent level of Basic MSUS course by other national societies.
- Intermediate Level - Certification proofs for either:
 - Intermediate EULAR MSUS Course certificate
 - Or
 - Intermediate EULAR scientifically endorsed MSUS course attendance
 - Or
 - Other equivalent level of Intermediate MSUS course by other national societies.

However, it is recommended to have completed EULAR Online Course, as well as EULAR MSUS Basic and Intermediate courses as they are the basic requirement for EULAR Competency Assessment – Level 1. For more details, please follow this link: https://esor.eular.org/theme/lc_eular/layout/enrol.php?id=65

Course fee

1900 € (VAT included) including:

Sunday, 9th June 2019

- Full access to the 26th EULAR Sonography Course
- 1-night accommodation at the Meliá Avenida América hotel in single room, breakfast included
- Afternoon coffee break
- Dinner

Monday, 10th June 2019

- Full access to the 26th EULAR Sonography Course
- 1-night accommodation at the Meliá Avenida América hotel in single room, breakfast included
- Morning & Afternoon coffee breaks
- Lunch & Dinner

Tuesday, 11th June 2019

- Full access to the 26th EULAR Sonography Course
- 1-night accommodation at the Meliá Avenida América hotel in single room, breakfast included
- Morning & Afternoon coffee breaks
- Lunch & Dinner

Wednesday, 12th June 2019

- Full access to the 26th EULAR Sonography Course
- Morning coffee break

The course fee quoted is a package price; therefore, the usage of the accommodation is highly recommended. For participants who would prefer not to utilise the accommodation, a discount of 150 € will be given.

COURSE DESCRIPTION

The **ADVANCED COURSE** will focus on advanced technological aspects, research, complex anatomic areas and difficult pathologies, paediatric rheumatic diseases, overuse and sport related disorders, and non-musculoskeletal organs involved in rheumatic diseases such as skin, nail, lung, salivary glands, vessels, and nerves.

It is designed for participants with previous performance of a minimum of 200 pathological MSUS examinations and attendance to an intermediate MSUS course (either a EULAR MSUS course or a EULAR scientifically endorsed course) is highly recommended before participating in a EULAR advanced-level course and mandatory for successfully completing the EULAR advanced-level course.

This course is the last criteria for EULAR Competency Assessment in MSUS in Rheumatology – Level 1, please follow this link:

https://esor.eular.org/theme/lc_eular/layout/enrol.php?id=65

Learning objectives

- To update evidence-based knowledge and emerging research fields on MSUS in rheumatic and musculoskeletal diseases.
- To score intra-articular and periarticular inflammatory activity and structural joint damage.
- To know advanced use of Doppler modes.
- To assess complex anatomic areas and difficult abnormalities.
- To assess abnormalities related to rheumatic diseases in the skin, nail, lung, salivary glands, vessels, and nerves.
- To know the role of MSUS in paediatric rheumatic diseases.
- To assess overuse and sport-related lesions.
- To know technological ultrasound advances.

Course certification

At the end of the course, all participants who have successfully completed the Advanced course; as well as the practical assessment during the course, will receive a certificate:

- EULAR 26th MSUS in Rheumatology Course – Advanced [Passed]

For participants who have additionally the followings:

- EULAR Online Course certificate [Passed]
- EULAR Basic MSUS course certificate
- EULAR Intermediate MSUS course certificate

can apply for EULAR Competency Assessment in MSUS in Rheumatology – Level 1 accreditation via their EULAR School login. The application process will take maximum 2 weeks and the certificate will be able for download in their dashboard upon application approval.

Detailed Programme

Day 1 – Sunday, 9th June 2019

Time	Type of session & Title	Speakers	Room
12:00 – 14:30	Check In & Registration	Organisers	Lobby
14:30 – 14:45	<p>Welcome and overview</p> <ul style="list-style-type: none"> Objectives and content of the course EULAR Competency assessment in MSUS 	I. Möller E. Naredo	Zaragoza (IV)
14:45 – 15:05	US in rheumatoid arthritis: update on validity and implementation in clinical practice and trials	E. Naredo Chairs: MA. D'Agostino & E. Naredo	Zaragoza (IV)
15:05 – 15:25	US in spondyloarthritis/psoriatic arthritis: update on validity and implementation in clinical practice and trials	MA. D'Agostino Chairs: MA. D'Agostino & E. Naredo	Zaragoza (IV)
15:25 – 15:45	What is the associations between ultrasound findings and clinical subjective markers of rheumatic diseases?	HB. Hammer Chairs: MA. D'Agostino & E. Naredo	Zaragoza (IV)
15:45 – 16:15	<p>Early signs of rheumatic diseases on Ultrasound</p> <ul style="list-style-type: none"> Includes question & discussion session (16:05 – 16:15) 	P. Mandl Chairs: MA. D'Agostino & E. Naredo	Zaragoza (IV)

Day 1 – Sunday, 9th June 2019 [continue]

Time	Type of session & Title	Speakers	Room
16:15 – 16:45	COFFEE BREAK		Zaragoza (I)
16:45 – 17:15	Use of Doppler modes in rheumatic and musculoskeletal diseases; update, advances and challenges	L. Terslev Chairs: A. Filer	Zaragoza (IV)
17:15 – 19:00	Workshop [Models] <ul style="list-style-type: none"> Supervised US assessment and discussion of patients with rheumatoid arthritis, spondyloarthritis, and osteoarthritis 	Faculty & Tutors	Zaragoza (IV)
19:30	DINNER		Toledo (II + III)

Day 2 – Monday, 10th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 09:15	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) in the knee, ankle and foot	Chairs: I Möller & D. Bong	Zaragoza (IV)
09:15 – 09:35	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) in the wrist and hand	Chairs: I Möller & D. Bong	Zaragoza (IV)
09:35 – 09:55	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) in the shoulder and elbow	Chairs: I Möller & D. Bong	Zaragoza (IV)
09:55 – 10:45	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) in the hip and pelvis region	Chairs: I Möller & D. Bong	Zaragoza (IV)
10:45 – 11:15	COFFEE BREAK		Zaragoza (I)
11:15 – 13:00	<p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning and discussion of patients with difficult US diagnosis in the upper limb. 	Faculty & Tutors	Zaragoza (III)
13:00 – 14:30	LUNCH		Toledo (II + III)

Day 2 – Monday, 10th June 2019 [continue]

Time	Type of session & Title	Speakers	Room
14:30 – 15:15	Physical/technical limitations of B-mode and Doppler US that can impact on current MSUS performance/diagnostic capability and potential developments that can enhance MSUS performance/diagnostic capability	K. V. Jenderka Chairs: W. Schmidt & J. Short	Zaragoza (IV)
15:15 – 16:00	US in vasculitis: scanning and applications (30 mins) Live demo (15 mins)	W. Schmidt Chairs: W. Schmidt & J. Short	Zaragoza (IV)
16:00 – 16:30	Ultrasound in emergencies in rheumatology: Can it have any role?	J. Short Chairs: W. Schmidt & J. Short	Zaragoza (IV)
16:30 – 17:00	COFFEE BREAK		Zaragoza (I)
17:00 – 19:00	Workshop <ul style="list-style-type: none"> Supervised hands-on scanning and discussion of patients with difficult US diagnosis in the lower limb 	Faculty & Tutors	Zaragoza (IV)
19:30	DINNER		Toledo (II + III)

Day 3 – Tuesday, 11th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 09:10	Ultrasound-guided synovial biopsy	A. Filer Chairs: JA. Bouffard & JM. Koski	Zaragoza (IV)
09:10 – 09:30	Ultrasound-guided tenosynovial and enthesis biopsy	M. Stoenoiu Chairs: JA. Bouffard & JM. Koski	Zaragoza (IV)
09:30 – 10:30	US assessment of overuse and sport-related lesions	JA. Bouffard Chairs: JA. Bouffard & JM. Koski	Zaragoza (IV)
10:30 – 11:00	COFFEE BREAK		Zaragoza (I)
11:00 – 12:30	<p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning and discussion of patients with overuse and sport-related lesions 	Faculty & Tutors	Zaragoza (IV)
12:30 – 13:00	<p>US Assessment of atherosclerosis (20 mins)</p> <p>Live Demo (10 mins)</p>	P. Mandl	
13:00 – 14:30	LUNCH		Toledo (II + III)

Day 3 – Tuesday, 11th June 2019 [continue]

Time	Type of session & Title	Speakers	Room
14:30 – 15:00	US assessment of lung in rheumatic diseases	A. Delle Sedie Chairs: C. Martinoli & X. Wortsman	Zaragoza (IV)
15:00 – 15:30	US assessment of skin and nail in rheumatic diseases	X. Wortsman Chairs: C. Martinoli & X. Wortsman	Zaragoza (IV)
15:30 – 16:00	US assessment of salivary glands in rheumatic diseases	S. Jousse-Joulin Chairs: C. Martinoli & X. Wortsman	Zaragoza (IV)
16:00 – 16:30	US assessment of peripheral nerves in rheumatic diseases	C. Martinoli Chairs: C. Martinoli & X. Wortsman	Zaragoza (IV)
16:30 – 17:00	COFFEE BREAK		Zaragoza (I)
17:00 – 19:00	<p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of non-musculoskeletal organs in patients with rheumatic diseases 	Faculty & Tutors	Zaragoza (IV)
19:30	DINNER		Toledo (II + III)

Day 4 – Wednesday, 12th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 09:00	Role of MSUS in paediatric rheumatic diseases; performance and indications	P. Collado Chair: P. Collado & S. Jousse-Joulin	Zaragoza (IV)
09:00 – 09:30	Ultrasound and MRI in arthritis: competitors or complementary?	M. Boesen Chair: P. Collado & S. Jousse-Joulin	Zaragoza (IV)
09:30 – 10:00	How to write and publish a paper on MSUS?	JM. van Laar Chair: P. Collado & S. Jousse-Joulin	Zaragoza (IV)
10:00 – 10:15	COFFEE BREAK		Zaragoza (I)
10:15 – 12:15	<p>Practical Assessment</p> <ul style="list-style-type: none"> Each participant will perform a 10-minute MSUS examination including documentation and report of two different anatomic areas with basic abnormalities supervised and assessed by the teachers. Faculty discussion Results 	Faculty & Tutors	Zaragoza (III)
12:15 – 12:30	Closing Remarks	E. Naredo	Zaragoza (III)