

26th Sonography Course – MSUS Basic

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 & hotel

Hotel Meliá Avenida América
Calle Juan Ignacio Luca de Tena, 36, 28027 Madrid, Spain
T: +34914232400
F: +34913201440
<https://www.melia.com/en/hotels/spain/madrid/melia-avenida-america/index.htm>

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)

Regular participants:

- No prerequisites

However, it is recommended to have EULAR Online Course passed as it is 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), package includes:

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 **BASIC COURSE** will focus on learning ultrasound physics, image acquisition, normal sonoanatomy, the standardised examination techniques and ultrasound findings in basic pathology.

Basic course is recommended for participants with little or no experience in MSUS. Completion of the EULAR On-line Introductory Ultrasound Course is highly recommended before participating in a EULAR basic-level course and is a formal requisite for the EULAR Competency Assessment in MSUS in Rheumatology.

For more details on EULAR Competency Assessment in MSUS in Rheumatology, please follow this link: https://esor.eular.org/theme/lc_eular/layout/enrol.php?id=65

Learning objectives

- To know the application, indications and limitations of MSUS in rheumatology.
- To know the ultrasound physics and technology.
- To identify the sonographic pattern of the different musculoskeletal tissues.
- To recognize musculoskeletal artefact and pitfalls.
- To hold the probe, to optimize B-mode settings of the ultrasound equipment and to acquire ultrasound images.
- To identify MSUS anatomy of each major anatomic area (i.e. shoulder, elbow, wrist and hand, hip, knee, ankle and foot).
- To learn the systematic standardised scanning technique for each major anatomic area (i.e. shoulder, elbow, wrist and hand, hip, knee, ankle and foot).
- To document images and to report ultrasound findings and diagnosis.
- To detect and identify basic MSUS abnormalities (e.g. joint effusion and synovial hypertrophy, tenosynovitis, enthesopathy, complete tendon tear, calcifications, bursitis, bone erosions and osteophytes, cartilage damage).

Course certification

At the end of the course, all participants who have successfully completed the Basic course will receive a certificate:

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

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 	J. Uson N. Damjanov	Zaragoza (II)
14:45 – 15:15	<p>History, development, and physics of MSUS</p> <ul style="list-style-type: none"> Technical characteristics of US equipments appropriate for rheumatic and musculoskeletal diseases 	J. Uson Chairs: J. M. Backhaus & N. Damjanov	Zaragoza (II)
15:15 – 15:45	<p>US pattern of the different musculoskeletal tissues</p> <ul style="list-style-type: none"> Tendons, muscles, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsules, and bone profile 	J. M. Backhaus Chairs: J. M. Backhaus & N. Damjanov	Zaragoza (II)
15:45 – 16:15	<p>Holding the probe</p> <ul style="list-style-type: none"> B-mode settings optimization. B-mode artefacts and pitfalls 	J. M. Backhaus Chairs: J. M. Backhaus & N. Damjanov	Zaragoza (II)
16:15 – 16:30	COFFEE BREAK		Zaragoza (I)

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

Time	Type of session & Title	Speakers	Room
16:30 – 17:00	Education in MSUS	E. Naredo	Zaragoza (II)
17:00 – 18:30	<p>Workshop [Models]</p> <ul style="list-style-type: none"> Supervised practical handling of the probe and B-mode settings. US appearance of musculoskeletal tissues and structures (i.e. tendons, muscles, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsules, and bone profile). B-mode artefacts and pitfalls. 	Faculty	Zaragoza (II)
18:30 – 19:00	<p>Basic MSUS abnormalities: Definitions & Findings</p> <ul style="list-style-type: none"> (i.e. joint effusion and synovial hypertrophy, tenosynovitis, enthesopathy, tendon rupture, bursitis, calcifications, bone abnormalities, cartilage damage) 	<p>N. Swen</p> <p>Chairs: UM. Dohn</p>	Zaragoza (II)
19:30	DINNER		Toledo (II + III)

Day 2 – Monday, 10th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 09:15	Application, indications, and limitations of MSUS in rheumatic and musculoskeletal diseases	J. Uson Chairs: A. Delle Sedie & E. de Miguel	Zaragoza (II)
09:15 – 09:45	Documentation of US images and report of US findings	A. Delle Sedie Chairs: A. Delle Sedie & E. de Miguel	Zaragoza (II)
09:45 – 10:45	Scanning <ul style="list-style-type: none"> Standardised scanning of the elbow (20 mins) (G. Bruyn) Live demo of normal elbow (20 mins) (E. De Miguel) Basic pathological findings of the elbow (20 mins) (G. Bruyn) 	G. Bruyn E. de Migueal Chairs: A. Delle Sedie & E. de Miguel	Zaragoza (II)
10:45 – 11:15	COFFEE BREAK		Zaragoza (I)
11:15 – 13:00	Workshop <ul style="list-style-type: none"> Supervised standardised scanning of the elbow (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
13:00 – 14:30	LUNCH		Toledo (II + III)

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

Time	Type of session & Title	Speakers	Room
14:30 – 15:30	<p style="text-align: center;">Scanning</p> <ul style="list-style-type: none"> Standardised scanning of the knee (20 mn) (A. Rodríguez) Live demo of normal knee (20 mn) (C. Acebes) Basic pathological findings of the knee (20 mn) (A. Rodríguez) 	<p>A. Rodríguez C. Acebes Chairs: A. Rodriguez & MC. Kortekaas</p>	Zaragoza (II)
15:30 – 16:30	<p style="text-align: center;">Scanning</p> <ul style="list-style-type: none"> Standardised scanning of the hip (20 mn) (C. Acebes) Live demo of normal hip (20 mn) (MC. Kortekaas) Basic pathological findings of the hip (20 mn) (C. Acebes) 	<p>C. Acebes MC. Kortekaas Chairs: A. Rodriguez & MC. Kortekaas</p>	Zaragoza (II)
16:30 – 17:00	COFFEE BREAK		Zaragoza (I)
17:00 – 19:00	<p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the knee (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
19:30	DINNER		Toledo (II + III)

Day 3 – Tuesday, 11th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 10:30	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the hip (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
10:30 – 11:00	COFFEE BREAK		Zaragoza (I)
11:00 – 12:00	<p>Scanning</p> <ul style="list-style-type: none"> Standardised scanning of the wrist and hand (20 mins) (D. Kane) Live demo of normal wrist and hand (20 mins) (A. Filer) Basic pathological findings of the wrist and hand (20 mn) (D. Kane) 	D. Kane A. Filer Chairs: D. Kane & R. Wakefield	Zaragoza (II)
12:00 – 13:00	<p>Scanning</p> <ul style="list-style-type: none"> Standardised scanning of the ankle and foot (20 mins) (R. Wakefield) Live demo of normal ankle and foot (20 mins) (JM. Koski) Basic pathological findings of the ankle and foot (20 mins) (R. Wakefield) 	R. Wakefield JM. Koski Chairs: D. Kane & R. Wakefield	Zaragoza (II)
13:00 – 14:30	LUNCH		Toledo (II + III)

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

Time	Type of session & Title	Speakers	Room
14:30 – 16:30	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the wrist & hand (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
16:30 – 17:00	COFFEE BREAK		Zaragoza (I)
17:00 – 19:00	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the ankle & foot (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
19:30	DINNER		Toledo (II + III)

Day 4 – Wednesday, 12th June 2019

Time	Type of session & Title	Speakers	Room
08:30 – 10:00	<p style="text-align: center;">Scanning</p> <ul style="list-style-type: none"> Standardised scanning of the shoulder (20 mins) (M. Szkudlarek) Live demo of normal shoulder (20 mins) (D. Kane) Basic pathological findings of the shoulder (20 mins) (M. Szkudlarek) 	<p style="text-align: center;">D. Kane Chair: M. Szkudlarek</p>	Zaragoza (II)
10:00 – 10:30	COFFEE BREAK		Zaragoza (I)
10:30 – 12:15	<p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the ankle & foot (models) Basic pathological findings (patients) 	Faculty & Tutors	Zaragoza (II)
12:15 – 12:30	Closing Remarks	J. Uson	Zaragoza (II)