

26th Sonography Course – MSUS Intermediate

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 JWJ, 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; Spain; **Uffe Møller Døhn**, Denmark; **Andrew Filer**, UK; Georgios Filippou, Italy; **Emilio Filippucci**, Italy; **Frederique Gandjbakhch**, France; **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; **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.

Hands-on Tutors

Maria Alcalde, Spain; **Carmen Cerón**, Colombia; **Mario Chávez**, México; **Cristina Estracht**, UK; **Stephanie Finzel**, Germany; **Daniela Fodor**, Romania; **Carlos Guillén-Astete**, Spain; **Petra Hanova**, Czech Republic; **Ana Lois-Iglesias**, Spain; **Cristina Macía-Villa**, Spain; **Mihaela Micu**, Romania; **Rodina Liceva Nestorova**, Bulgaria; **Lina Martínez-Estupiñán**, Spain; **Sarah Ohrndorf**, Germany; **Margarida Oliveira**, Portugal; **Fernando Saraiva**, Portugal; **Plamen Todorov**, Bulgaria; **Esther Vicente**, Spain; **Violeta Vlad**, Romania.

Organising secretariat

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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

- 6 PowerPoint files with 1 normal examination each of the following joint regions:
 - shoulder,
 - elbow,
 - wrist & hand,
 - hip,
 - knee,
 - ankle & foot (i.e. in total 6 normal examinations, one of each joint region).
- 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.

However, it is recommended to have EULAR Online Course, as well as EULAR MSUS Basic course passed 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), 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
- Buffet 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
- Buffet Lunch & Buffet 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
- Buffet Lunch & Buffet 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 **INTERMEDIATE COURSE** will focus on a wide spectrum of rheumatic and musculoskeletal pathologies.

It is designed for participants with previous performance of a minimum of 10 standardised MSUS examinations of each joint region (i.e. shoulder, elbow, wrist & hand, hip, knee, ankle & foot) and attendance to a basic MSUS course (either a EULAR MSUS Basic course, or a EULAR scientifically endorsed basic course, or a national MSUS Basic course).

This course is the 3rd 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 know the Doppler physics, technology, settings and artefacts.
- To know the application, indications and limitations of Doppler in rheumatology.
- To identify the spectrum of rheumatic and musculoskeletal abnormalities in each anatomic area (e.g. joint synovitis, tenosynovitis, enthesopathy, tendinosis, paratenonitis, tendon sub/luxation, tendon impingement, tendon tears, bone erosions, osteophytes, ganglia and cysts, articular cartilage lesions, peri- and intra-articular microcrystal deposit, soft tissue calcifications).
- To detect and quantify synovial, tenosynovial, and enthesal inflammation.
- To detect and quantify structural joint damage (i.e. bone, tendons, cartilage).
- To perform sonographic-guided periarticular and intra-articular injections.

Course certification

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

- EULAR 26th MSUS in Rheumatology Course – Intermediate [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 | L. Terslev A. Iagnocco | Zaragoza (II) |
| 14:45 – 15:15 | <p>Doppler physics and technology</p> <ul style="list-style-type: none"> Doppler setting optimization Doppler artefacts and pitfalls | UM. Dohn Chairs: G. Bruyn & L. Terslev | Zaragoza (II) |
| 15:15 – 15:45 | Applications, indications and limitations of Doppler in rheumatic and musculoskeletal diseases | L. Terslev Chairs: G. Bruyn | Zaragoza (II) |
| 15:45 – 16:15 | <p>B-mode and Doppler synovitis and tenosynovitis</p> <ul style="list-style-type: none"> Definition, detection, quantification, and pitfalls | E. Filippucci Chairs: G. Bruyn & L. Terslev | Zaragoza (II) |
| 16:15 – 16:45 | COFFEE BREAK | | Zaragoza (IV) |

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

| Time | Type of session & Title | Speakers | Room |
|---------------|---|--|-------------------|
| 16:45 – 18:30 | <p>Workshop [Models]</p> <ul style="list-style-type: none"> Supervised practical handling of Doppler US machine settings and Doppler artefacts. Supervised hands-on scanning of patients with synovitis and tenosynovitis. | Faculty & Tutors | Zaragoza (II) |
| 18:30 – 19:00 | <p>US tendon lesions</p> <ul style="list-style-type: none"> (e.g. tendinosis, tears, sub/luxation, impingement) Definition, detection, quantification, and pitfalls | <p>Z. Karim</p> <p>Chairs: M. Szkudlarek</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 | <p>B-mode and Doppler enthesopathy and dactylitis</p> <ul style="list-style-type: none"> Definition, detection, quantification, and pitfalls (30 mins) Live demo (15 mins) | <p>MA. D'Agostino Chairs: E. Filippucci</p> | Zaragoza (II) |
| 09:15 – 09:35 | <p>US bone abnormalities</p> <ul style="list-style-type: none"> Definition, detection, quantification, and pitfalls | <p>F. Gandjbakhch Chairs: MA. D'Agostino & E. Filippucci</p> | Zaragoza (II) |
| 09:35 – 09:55 | <p>US cartilage abnormalities</p> <ul style="list-style-type: none"> Definition, detection, quantification, and pitfalls | <p>MC. Kortekaas Chairs: MA. D'Agostino & E. Filippucci</p> | Zaragoza (II) |
| 09:55 – 10:45 | <p>US assessment of crystal arthropathies</p> <ul style="list-style-type: none"> e.g. gout, CPPD disease (30 mins) live demo (20 mins) | <p>E. Filippucci Chairs: MA. D'Agostino</p> | Zaragoza (II) |
| 10:45 – 11:15 | COFFEE BREAK | | Zaragoza (IV) |
| 11:15 – 13:00 | <p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with enthesopathy, dactylitis, tendon lesions, bone and cartilage abnormalities, and crystal arthropathies. | Faculty & Tutors | Zaragoza (II) |

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

| Time | Type of session & Title | Speakers | Room |
|---------------|---|---|-------------------|
| 13:00 – 14:30 | LUNCH | | Toledo (II + III) |
| 14:30 – 15:10 | <p>US diagnosis of hip pathology (C. Martinoli)</p> <p>Live demo of pathological hip (E. Filippucci)</p> <p>(20 mins each)</p> | <p>C. Martinoli</p> <p>E. Filippucci</p> <p>Chairs: F. Gandjbakhch</p> | Zaragoza (II) |
| 15:10 – 15:50 | <p>US diagnosis of knee pathology (P. Balint)</p> <p>Live demo of pathological knee (F. Gandjbakhch)</p> <p>(20 mins each)</p> | <p>P. Balint</p> <p>F. Gandjbakhch</p> <p>Chairs: C. Martinoli</p> | Zaragoza (II) |
| 15:50 – 16:30 | <p>US diagnosis of elbow pathology (J. Uson)</p> <p>Live demo of pathological elbow (M. Szkudlarek)</p> <p>(20 mins each)</p> | <p>J. Uson</p> <p>M. Szkudlarek</p> <p>Chairs: C. Martinoli & F. Gandjbakhch</p> | Zaragoza (II) |
| 16:30 – 17:00 | COFFEE BREAK | | Zaragoza (IV) |
| 17:00 – 19:00 | <p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with elbow, hip and knee inflammatory and degenerative diseases | 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 – 09:30 | <p>US diagnosis of wrist and hand pathology (40 mins) (E. Filippucci)</p> <p>Live demo of pathological wrist and hand (20 mins) (M. Szkudlarek)</p> | <p>E. Filippucci</p> <p>M. Szkudlarek</p> <p>Chairs: HB. Hammer</p> | Zaragoza (II) |
| 09:30 – 10:30 | <p>US diagnosis of ankle and foot pathology (40 mins) (HB. Hammer)</p> <p>Live demo of pathological ankle and foot (20 mins) (C. Martinoli)</p> | <p>HB. Hammer</p> <p>C. Martinoli</p> <p>Chairs: E. Filippucci</p> | Zaragoza (II) |
| 10:30 – 11:00 | COFFEE BREAK | | Zaragoza (IV) |
| 11:00 – 13:00 | <p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with wrist/hand and ankle/foot inflammatory and degenerative diseases | Faculty & Tutors | 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 – 16:00 | <p>US diagnosis of shoulder pathology (JA. Bouffard)</p> <p>Live demo of pathological shoulder (JA. Bouffard)</p> <p>(45 mins each)</p> | <p>JA. Bouffard</p> <p>Chairs: P. Mandl</p> | Zaragoza (II) |
| 16:00 – 16:30 | How to write and publish a paper on MSUS? | <p>P. Mandl</p> <p>Chairs: JA. Bouffard</p> | Zaragoza (II) |
| 16:30 – 17:00 | COFFEE BREAK | | Zaragoza (IV) |
| 17:00 – 19:00 | <p style="text-align: center;">Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with shoulder inflammatory and degenerative diseases. | 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>US-guided periarticular and intra-articular injections (J. Koski)</p> <p>Demo of US guided injections (JA. Bouffard)</p> <p>(45 mins each)</p> | <p>J. Koski</p> <p>JA. Bouffard</p> <p>Chair: N. Swen</p> | Zaragoza (II) |
| 10:00 – 10:30 | COFFEE BREAK | | Zaragoza (IV) |
| 10:30 – 12:15 | <p>Workshop</p> <ul style="list-style-type: none"> Supervised US-guided injections | Faculty & Tutors | Zaragoza (II) |
| 12:15 – 12:30 | Closing Remarks | I. Möller | Zaragoza (II) |