

32nd EULAR Sonography Course – MSUS Intermediate

Barcelona, Spain

Saturday, 7 June 2025 – Monday, 9 June 2025



The 32nd 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 (MSUS) courses (Naredo E, Bijlsma JW, Conaghan PG, et al. Ann Rheum Dis 2008; 67:1017-22).

ORGANISATION & COMMITTEE

Scientific Organisers

- Ingrid Möller (Spain)
- David Bong (Spain)
- Luis Coronel (Spain)

Patients' Liaisons

- Alba Erra (Spain)
- Andres Ponce (Spain)
- Carmen Moragues (Spain)
- Delia Reina (Spain)
- Hector Corominas (Spain)
- Jordi Montfort (Spain)
- Josep Verges (Spain)
- Juan Jose de Agustin (Spain)
- Kirsten Martínez (Spain)
- María López Lasanta (Spain)

Faculty Members

- Andrea Delle Sedie (Italy)
- Annamaria Iagnocco (Italy)
- Aurelie Najm (United Kingdom)
- Carlos Acebes (Spain)
- Carmen Ho (Hong Kong)
- Christina Duftner (Austria)
- David Bong (Spain)
- David Kane (Ireland)
- Emilio Filippucci (Italy)
- Esperanza Naredo (Spain)
- Esther Vicente (Spain)
- Francesco Porta (Italy)
- Florin Vreju (Romania)
- George Bruyn (Netherlands)
- Giorgio Tamborrini (Switzerland)
- Georgios Filippou (Italy)
- Gurgit S. Kaeley (United States)
- Hilde Berner Hammer (Norway)
- Ingrid Möller (Spain)
- Jacqueline Uson (Spain)
- Joao Madruga Dias (Portugal)
- Johan Michaud (Canada)
- Lene Terslev (Denmark)
- Luis Coronel (Spain)
- Mads Ammitzbøll (Denmark)
- Marcin Szkudlarek (Denmark)
- Maria-Antonietta D'Agostino (Italy)
- Marina Backhaus (Germany)
- Mario Chavez (Mexico)
- Marion Kortekaas (Netherlands)
- Nemanja Damjanov (Serbia)
- Paz Collado (Spain)
- Peter Balint (Hungary)
- Peter Mandl (Austria)
- Plamen Todorov (Bulgaria)
- Richard Wakefield (United Kingdom)
- Rodina Nestorova (Bulgaria)
- Stefano Alivernini (Italy)
- Wolfgang Schmidt (Germany)
- Zunaid Karim (United Kingdom)

Special Guest Faculty

- Carles Pedret (Spain)
- Carlo Martinoli (Italy)
- Christian Dejaco (Austria)
- David Vidal (Spain)
- Jordi Mollet (Spain)
- Maribel Miguel (Spain)

Tutors

- Ana Laura Alvarez (Mexico)
- Ana Lois-Iglesias (Spain)
- Andres Ponce (Spain)
- Andrew Melville (United Kingdom)
- Boris Blanco (Spain)
- Carmen Elena Ceron (Spain)
- Carmen Moragues (Spain)
- Catalina Villota (Colombia)
- Chiara Rizzo (Italy)
- Diego Saaibi (Colombia)
- Estefanía Moreno (Spain)
- Hector Corominas (Spain)
- Izzat AM Khanjar (Qatar)
- Joaquim Pereira (Portugal)
- Juan Jose de Agustin (Spain)
- Juan Molina Collada (Spain)
- Kenta Misaki (Japan)
- Lucia Mayordomo (Spain)
- Maria Kourilovitch (Ecuador)
- Maritza Quintero (Spain)
- Mario Diaz (Spain)
- Orlando Villota (Colombia)
- Paula Estrada (Spain)
- Priscilla Wong (Hong Kong)
- Renske Meijer (Netherlands)
- Rosalia Martinez-Perez (Spain)
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Organising Secretariat

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EULAR Committee

EULAR Education Committee, Live Courses & Meetings Sub-Committee

COURSE DESCRIPTION

The **INTERMEDIATE COURSE** will focus on a wide spectrum of rheumatic and musculoskeletal pathologies. It is designed for delegates with previous performance of a minimum of 10 standardised MSUS examinations of each joint region: shoulder, elbow, wrist & hand, hip, knee, ankle & foot.

Additionally, the delegate must have completed a BASIC MSUS Course approved by EULAR:

- Basic EULAR MSUS Course.
- Basic EULAR Scientifically endorsed MSUS Course.
- Other equivalent level of Basic MSUS Course by National Societies (acceptance is dependent on EULAR).

This course is one of the criteria for EULAR Competency Assessment in MSUS in Rheumatology – Level 1:

- **Criterion 1:** Basic EULAR MSUS Course.
- **Criterion 2:** Intermediate EULAR MSUS Course.
- **Criterion 3:** Advanced EULAR MSUS Course.
- **Criterion 4:** EULAR Online Introductory Ultrasound Course.

For more details, please follow this link: <https://esor.eular.org/course/view.php?id=94>

Learning objectives

- To provide knowledge about Doppler physics, technology, settings, and artefacts.
- To understand 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 erosion, osteophyte, ganglia and cysts, articular cartilage lesion, peri- and intra-articular microcrystal deposit, soft tissue calcification).
- 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.

GENERAL INFORMATION

Course venue

Gran Via | Fira de Barcelona - Hall 8, Convention Centre (North Access),
Carrer del Foc,
08908, L'Hospitalet de Llobregat, Barcelona, Spain
[Website](#)

Course dates

Saturday, 7 June 2025 – Monday, 9 June 2025

Official language

English

Maximum participants

60

Certification

Upon successful completion of the course, all participants will receive a certificate of attendance via their EULAR School user account. Please note that full attendance (100%) is required to receive the certificate.

Course fee

1000 € (VAT included), package includes:

Saturday, 7 June 2025

- Full access to the course.
- Coffee breaks.
- Lunch.

Sunday, 8 June 2025

- Full access to the course.
- Coffee breaks.
- Lunch.

Monday, 9 June 2025

- Full access to the course.
- Coffee breaks.
- Lunch.

Note: accommodation is not included in the course fee.

REGISTRATION

Application requirements

- PowerPoint presentation of an examination of the following joint regions, including of all relevant structures:
 - Shoulder.
 - Elbow.
 - Wrist & hand.
 - Hip.
 - Knee.
 - Ankle & foot.

In total 6 normal examinations, one of each joint region.

- Certificate of completion for a BASIC MSUS Course:
 - Basic EULAR MSUS Course.
 - Basic EULAR Scientifically endorsed MSUS Course.
 - Other equivalent level of Basic MSUS Course by National Societies (acceptance is dependent on EULAR).
- Completion of EULAR Online Introductory Ultrasound Course is highly recommended, but not mandatory for course participation. However, it is a requirement for EULAR Competency Assessment – Level 1.

Application process

Online: <https://esor.eular.org/course/view.php?id=506>

Please login to your EULAR School of Rheumatology account to register.

Registration deadline: Sunday, 6 April 2025

* Early registration is advisable. Number of participants is limited.

Notification: 2 - 6 weeks after the receipt of your application.

* Your application will be reviewed by a faculty member of the course.

Bursary

EULAR grants **5 bursaries** in the amount of **EUR 1000 each**. The amount of the bursary will be deducted from the course fee.

Please apply with your motivation letter, CV and (if any) publication list within the registration system.

Bursary application deadline: Friday, 28 February 2025.

Notification: mid-March 2025.

Detailed Programme

Day 1 – Saturday, 7 June 2025 [intermediate]

Time	Type of session & Title	Speakers
08:00 – 09:00	REGISTRATION	
09:00 – 09:15	Welcome and overview <ul style="list-style-type: none"> Objectives and content of the course. 	D. Bong
09:15 – 10:30	Workshop <ul style="list-style-type: none"> Assessment of normal B-mode joint examination skills (models). 	Faculty & tutors 1) A. Delle Sedie 2) D. Kane 3) E. Filippucci 4) G. Filippou 5) M. Backhaus 6) M. Kortekaas 7) N. Damjanov 8) R. Wakefield 9) W. Schmidt 10) Z. Karim
10:30 – 11:00	COFFEE BREAK	
Chair: F. Vreju and M. Szkudlarek		
11:00 – 11:30	Fundamentals and applications of Doppler imaging	L. Terslev
11:30 – 13:00	Workshop <ul style="list-style-type: none"> Doppler US: machine settings and Doppler artefacts (models). 	Faculty & tutors 1) C. Acebes 2) C.E. Ceron 3) C. Ho 4) E. Vicente 5) F. Porta 6) F. Vreju 7) G. Tamborrini 8) J. Uson 9) L. Terslev 10) M. Szkudlarek
13:00 – 14:00	LUNCH	
Chair: E. Naredo and G.S. Kaely		
14:00 – 14:30	Ultrasound assessment of synovitis in RMDS	E. Naredo
14:30 – 15:00	Ultrasound assessment of tendons in RMD	D. Kane
15:00 – 15:45	Ultrasound assessment of the enthesis	G.S. Kaely

15:45 – 16:15	Ultrasound assessment of bone and cartilage abnormalities	G. Filippou
16:15 – 16:45	Ultrasound scoring systems in RMD	G. Bruyn
16:45 – 17:15	COFFEE BREAK	
17:15 – 18:45	Workshop <ul style="list-style-type: none"> Supervised hands-on scanning of patients with enthesopathy, dactylitis, tendon lesions, bone and cartilage abnormalities. 	Faculty & tutors 1) A. Lois-Alvarez 2) C. Acebes 3) C.E. Ceron 4) D. Kane 5) D. Saaibi 6) G. Bruyn 7) G.S. Kaeley 8) J. Pereira 9) J. Madruga Dias 10) M. Backhaus

Day 2 – Sunday, 8 June 2025 [intermediate]

Time	Type of session & Title	Speakers
Chair: M. Kortekaas and P. Todorov		
08:30 – 09:15	Ultrasound diagnosis – Shoulder <ul style="list-style-type: none"> Ultrasound diagnosis of shoulder pathology (30min – R. Nestorova) Live Demonstration of shoulder exam (15min – P. Todorov) 	P. Todorov R. Nestorova
09:15 – 10:00	Ultrasound diagnosis – Elbow <ul style="list-style-type: none"> Ultrasound diagnosis of elbow pathology (30min – N. Damjanov) Live Demonstration of elbow exam (15min – F. Vreju) 	F. Vreju N. Damjanov
10:00 – 10:45	Ultrasound diagnosis – Wrist and hand <ul style="list-style-type: none"> Ultrasound diagnosis of wrist and hand pathology (30min – M. Kortekaas) Live Demonstration of wrist and hand exam (15min – M. Chavez) 	M. Chavez M. Kortekaas
10:45 – 11:15	COFFEE BREAK	

<p>11:15 – 13:15</p>	<p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with pathology involving the upper extremity. 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) C. Ho 2) F. Vreju 3) M. Chevez 4) M. Kortekaas 5) M. Quintero 6) N. Damjanov 7) P. Todorov 8) R. Nestorova 9) W. Schmidt 10) Z. Karim
<p>13:15 – 14:15</p>	<p>LUNCH</p>	
<p>Chair: C. Acebes and C. Ho</p>		
<p>14:15 – 15:00</p>	<p>Ultrasound diagnosis – Hip</p> <ul style="list-style-type: none"> Ultrasound diagnosis of hip pathology (30min – M. Szkudlarek) Live Demonstration of hip exam (15min – J. Michaud) 	<p>J. Michaud M. Szkudlarek</p>
<p>15:00 – 15:45</p>	<p>Ultrasound diagnosis – Knee</p> <ul style="list-style-type: none"> Ultrasound of knee pathology (30min – C. Ho) Live Demonstration of knee exam (15min – C. Duftner) 	<p>C. Duftner C. Ho</p>
<p>15:45 – 16:30</p>	<p>Ultrasound diagnosis – Foot and ankle</p> <ul style="list-style-type: none"> Ultrasound diagnosis of foot and ankle pathology (30min – C. Acebes) Live Demonstration of foot and ankle exam (15min – P. Balint) 	<p>C. Acebes P. Balint</p>
<p>16:30 – 17:00</p>	<p>COFFEE BREAK</p>	
<p>17:00 – 18:30</p>	<p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of patients with pathology involving the lower extremity. 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) C. Acebes 2) C. Duftner 3) C. Ho 4) J. Michaud 5) U. Moller Dohn 6) M. Quintero 7) P. Balint 8) P. Todorov 9) R. Nestorova 10) R. Wakefield
<p>18:30 – 18:45</p>	<p>GROUP PHOTO</p>	

Day 3 – Monday, 9 June 2025 [intermediate]

Time	Type of session & Title	Speakers
Chairs: J. Michaud and M.A. D'Agostino		
08:30 – 09:00	Ultrasound in Osteoarthritis	A. Iagnocco
09:00 – 09:30	Ultrasound in Rheumatoid arthritis	M.A. D'Agostino
09:30 – 10:00	Ultrasound in Spondyloarthropathies	G.S. Kaeley
10:00 – 10:30	Ultrasound of common sports injuries	J. Michaud
10:30 – 11:00	Ultrasound in Crystal arthropathies	G. Filippou
11:00 – 11:30	COFFEE BREAK	
11:30 – 13:30	Workshop <ul style="list-style-type: none"> Supervised systemic hands-on scanning of patients with systemic rheumatic disorders. 	Faculty & tutors 1) A. Lois-Alvarez 2) A. Delle Sedie 3) G. Filippou 4) G.S. Kaeley 5) H.B. Hammer 6) I. AM Khanjar 7) J. Michaud 8) J. Uson 9) M. Szkudlarek 10) M.A. D'Agostino
13:30 – 14:30	LUNCH	
Chairs: D. Bong and H. Corominas		
14:30 – 15:15	How to organise an ultrasound unit	D. Reina H. Corominas J. Montfort
15:15 – 15:45	Intraarticular and periarticular guided injections	F. Porta
15:45 – 16:15	COFFEE BREAK	

<p>16:15 – 18:15</p>	<p>Workshop</p> <ul style="list-style-type: none"> • Review of sonoanatomic principles of US in guided injections (models). • Supervised ultrasound-guided injection technique (chickens). 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) A. Najm 2) F. Vreju 3) F. Porta 4) G.S. Kaeley 5) I. AM Khanjar 6) J. Madruga Dias 7) J. Michaud 8) J. Pereira 9) P. Balint 10) S. Alivernini
<p>18:15 – 18:30</p>	<p>Closing Remarks</p>	<p>D. Bong</p>

Any changes to the scientific programme or to the list of speakers are possible until the beginning of the course. Further updates will be published on the [EULAR School of Rheumatology](#) homepage.