

32nd EULAR Sonography Course – MSUS Basic

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

ORGANISATION & COMMITTEE

Scientific Organisers

- Ingrid Möller (Spain)
- Luis Coronel (Spain)
- David Bong (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)
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- Florin Vreju (Romania)
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- 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 **BASIC COURSE** will focus on learning ultrasound physics, image acquisition, normal sonoanatomy, the standardised examination techniques and ultrasound findings in basic pathology.

The basic course is recommended for participants with little or no experience in MSUS. Completion of the EULAR Online Introductory Ultrasound Course is highly recommended before participating in a EULAR basic-level course; however, it is not a mandatory requirement for course participation.

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 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 recognise musculoskeletal artefacts 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).

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 / Target audience

No prerequisites. This is an educational activity targeting participants with no, little, or intermediate experience in MSUS in paediatric rheumatic and musculoskeletal diseases.

Registration process

Online: <https://esor.eular.org/course/view.php?id=505>

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.

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 [basic]

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. 	L. Coronel
Chairs: C. Duftner and G. Tamborrini		
09:15 – 09:35	Why should we perform ultrasound as rheumatologists?	P. Balint
09:35 – 09:55	Knobology, orientation and optimization of the examination and machine settings	G. Tamborrini
09:55 – 10:20	Physics of B-mode and Doppler ultrasound	M. Ammitzbøll
10:20 – 10:45	Common artefacts in musculoskeletal ultrasound	C. Duftner
10:45 – 11:15	COFFEE BREAK	
Chairs: P. Balint and Z. Karim		
11:15 – 11:35	Ultrasound pattern of the different musculoskeletal tissues. Tendons, muscles, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsules, and bone profile	P. Balint
11:35 – 11:55	How to choose an US machine	Z. Karim
11:55 – 12:15	How to create an US unit	D. Reina J. Monfort
12:15 – 13:45	Workshop <ul style="list-style-type: none"> Supervised practical handling of the transducer, B-mode and Doppler settings. US appearance of musculoskeletal tissues and structures (i.e., tendons, muscles, ligaments, nerves, articular cartilage, fibrocartilage, joint space, joint recesses, joint capsule, bone profile). B-mode artefacts and pitfalls (models). 	Faculty & tutors 1) A. Lois-Iglesias 2) B. Blanco 3) C. Rizzo 4) C. Villota 5) J.J. de Agustin 6) J. Molina Collada 7) M. Ammitzbøll 8) M. Diaz 9) O. Villota 10) S. Sirotti
13:45 – 14:45	LUNCH	

Chairs: G. Bruyn and R. Wakefield		
14:45 – 15:15	Basic MSUS inflammatory abnormalities: Definitions & Findings (i.e., joint effusion, synovial hypertrophy, tenosynovitis, enthesopathy/enthesitis, bursitis, peritenonitis)	G. Bruyn
15:15 – 15:45	Basic MSUS structural abnormalities: Definitions & Findings (i.e., enthesopathy, tendon damage, tendon rupture, calcifications, bone abnormalities, cartilage damage)	R. Wakefield
15:45 – 16:15	Ultrasound of the joint – The hip <ul style="list-style-type: none"> • Sonoanatomy of the hip (20min – H. Corominas) • Standardised scanning - Live demo of normal hip (10min – C. Moragues) 	C. Moragues H. Corominas
16:15 – 16:45	COFFEE BREAK	
16:45 – 18:45	Workshop <ul style="list-style-type: none"> • Supervised standardised scanning of the hip (models). 	Faculty & tutors 1) A. Lois-Iglesias 2) B. Blanco 3) C. Moragues 4) E. Moreno 5) H. Corominas 6) K. Misaki 7) O. Villota 8) P. Estrada 9) R. Martinez Perez 10) R. Meijer

Day 2 – Sunday, 8 June 2025 [basic]

Time	Type of session & Title	Speakers
Chairs: I. AM Khanjar and M. Backhaus		
08:30 – 09:00	Ultrasound of the joint – Knee <ul style="list-style-type: none"> • Sonoanatomy of knee (20min – M. Backhaus) • Standardised scanning - Live demo of normal knee (10min – J. Madruga Dias) 	J. Madruga Dias M. Backhaus

<p>09:00 – 10:30</p>	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the knee (models). 	<p>Faculty & Tutors</p> <ol style="list-style-type: none"> 1) B. Blanco 2) C. Villota 3) C. Rizzo 4) D. Saaibi 5) I. AM Khanjar 6) J. Madruga Dias 7) J. Molina Collada 8) O. Villota 9) P. Estrada 10) P. Wong
<p>10:30 – 11:00 COFFEE BREAK</p>		
<p style="text-align: center;">Chairs: J. Uson and L. Mayordomo</p>		
<p>11:00 – 11:30</p>	<p>Ultrasound of the joint – Ankle and foot</p> <ul style="list-style-type: none"> Sonoanatomy of the ankle and foot (20min – J. Uson) Standardised scanning - Live demo of normal ankle and foot (10min – L. Mayordomo) 	<p>J. Uson L. Mayordomo</p>
<p>11:30 – 13:00</p>	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the ankle and foot (models). 	<p>Faculty & Tutors</p> <ol style="list-style-type: none"> 1) A. Melville 2) B. Blanco 2) D. Saaibi 3) J. Pereira 4) J. Uson 5) K. Misaki 6) L. Mayordomo 8) O. Villota 9) R. Meijer 10) S. Sirotti
<p>13:00 – 14:00 LUNCH</p>		
<p style="text-align: center;">Chairs: M. Chavez and M. Miguel</p>		
<p>14:00 – 14:30</p>	<p>Ultrasound of the joint – Shoulder</p> <ul style="list-style-type: none"> Sonoanatomy the shoulder (20min – M. Miguel) Standardised scanning - Live demo of normal shoulder (10min – M. Chavez) 	<p>M. Chavez M. Miguel</p>

14:30 – 16:15	Workshop <ul style="list-style-type: none"> Supervised standardised scanning of the shoulder (models). 	Faculty & tutors 1) C. Rizzo 2) E. Moreno 3) I. AM Khanjar 4) J.J. de Agustin 5) J. Molina Collada 6) K. Misaki 7) L. Mayordomo 8) M. Diaz 9) P. Estrada 10) S. Sirotti
16:15 – 16:45	COFFEE BREAK	
Chairs: K. Misaki and M. Miguel		
16:45 – 17:15	Ultrasound of the joint – Elbow <ul style="list-style-type: none"> Sonoanatomy of the elbow (20min – M. Miguel) Standardised scanning - Live demo of normal elbow (10min – K. Misaki) 	K. Misaki M. Miguel
17:15 – 18:45	Workshop <ul style="list-style-type: none"> Supervised standardised scanning of the elbow (models). 	Faculty & tutors 1) A. Melville 2) A. Ponce 2) C. Villota 3) E. Moreno 4) J. Pereira 5) K. Misaki 6) M. Diaz 8) P. Wong 9) R. Martinez-Perez 10) R. Meijer
18:45 - 19:00	GROUP PHOTO	

Day 3 – Monday, 9 June 2025 [basic]

Time	Type of session & Title	Speakers
Chairs: L. Coronel and P. Estrada		
09:00 – 09:30	Ultrasound of the joint – Wrist and hand <ul style="list-style-type: none"> Sonoanatomy of the wrist and hand (20min – L. Coronel) Standardised scanning - Live demo of normal wrist and hand (10min – P. Estrada) 	L. Coronel P. Estrada

<p>09:30 – 11:00</p>	<p>Workshop</p> <ul style="list-style-type: none"> Supervised standardised scanning of the wrist and hand (models). 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) A. Lois-Iglesias 2) C. Acebes 3) C. Rizzo 4) C. Villota 5) J. Molina Collada 6) J. Pereira 7) L. Mayordomo 8) P. Estrada 9) P. Wong 10) O. Villota
<p>11:00 – 11:30 COFFEE BREAK</p>		
<p style="text-align: center;">Chairs: A. Najm and H. Corominas</p>		
<p>11:30 – 11:50</p>	<p>Basic pathology of the hip</p>	<p>H. Corominas</p>
<p>11:50 – 12:10</p>	<p>Basic pathology of the knee</p>	<p>J. Madruga Dias</p>
<p>12:10 – 12:30</p>	<p>Basic pathology of the ankle and foot</p>	<p>A. Najm</p>
<p>12:30 – 14:00</p>	<p>Workshop</p> <ul style="list-style-type: none"> Basic pathology of the lower extremity (patients). 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) A. Melville 2) A. Ponce 3) C. Villota 4) E. Moreno 5) H. Corominas 6) J. Madruga Dias 7) J. Molina Collada 8) J. Pereira 9) O. Villota 10) P. Wong
<p>14:00 – 15:00 LUNCH</p>		
<p style="text-align: center;">Chairs: C. Dufner and N. Damjanov</p>		
<p>15:00 – 15:20</p>	<p>Basic pathology of the shoulder</p>	<p>C. Dufner</p>
<p>15:20 – 15:40</p>	<p>Basic pathology of the elbow</p>	<p>N. Damjanov</p>
<p>15:40 – 16:00</p>	<p>Basic pathology of the wrist and hand</p>	<p>J. Uson</p>
<p>16:00 – 16:20</p>	<p>Documentation of ultrasound images and report of ultrasound findings</p>	<p>N. Damjanov</p>
<p>16:20 – 16:45 COFFEE BREAK</p>		

<p>16:45 – 18:15</p>	<p>Workshop</p> <ul style="list-style-type: none"> • Basic pathology of the upper extremity (patients). 	<p>Faculty & tutors</p> <ol style="list-style-type: none"> 1) A.L. Alvarez 2) A. Lois-Iglesias 3) B. Blanco 4) C. Acebes 5) C. Rizzo 6) D. Saaibi 7) J.J. de Agustin 8) L. Mayordomo 9) R. Martinez-Perez 10) S. Sirotti
<p>18:15 – 18:30</p>	<p>Closing Remarks</p>	<p>L. Coronel</p>

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