

29th Sonography Course - MSUS Advanced

Denmark, Copenhagen

Sunday, 29 May 2022 – Wednesday, 1 June 2022



The 29th 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

- Lene Terslev (Denmark)
- Marcin Szkudlarek (Denmark)
- Uffe Møller Døhn (Denmark)

Faculty Members

- Alessandra Bruns (Canada)
- Andrea Delle Sedie (Italy)
- Andreas Diamantopoulos (Norway)
- Anna Ciechomska (UK)
- Alojzija Hocevar (Slovenia)
- Andrew Filer (UK)
- Carlo Martinoli (Italy)
- David Bong (Spain)
- David Kane (Ireland)
- Esperanza Naredo (Spain)
- Emilio Filippucci (Italy)
- Georgios Filippou (Italy)
- George Bruyn (The Netherlands)
- Hilde Berner Hammer (Norway)
- Ingrid Möller (Spain)
- Jacqueline Uson (Spain)
- Maria Antonietta D'Agostino (France)
- Marina Backhaus (Germany)
- Marion Kortekaas (The Netherlands)
- Maria Stoenoiu (Belgium)
- Nemanja Damjanov (Serbia)
- Peter Mandl (Austria)
- Peter Balint (Hungary)
- Richard Wakefield (UK)
- Sarah Ohrndorf (Germany)
- Søren Torp-Pedersen (Denmark)
- Stavros Chyridis (Denmark)
- Stephanie Finzel (Germany)
- Ulrich Fredberg (Denmark)
- Wolfgang Schmidt (Germany)
- Zunaid Karim (UK)

Special Guest Faculty

- Annamaria Iagnocco (Italy)
- Daniel Windschall (Germany)
- Mikael Boesen (Denmark)
- Jørgen Arendt Jensen (Denmark)

Organising Secretariat

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EULAR Committee

EULAR Education Committee, Live Courses & Meetings Sub-Committee

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 a basic and intermediate MSUS course (either a EULAR MSUS course or a EULAR scientifically endorsed course) is required before participating in a EULAR advanced-level course.

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

- criterion 1, EULAR Online Introductory Ultrasound Course
- criterion 2, Basic EULAR MSUS Course
- criterion 3, Intermediate EULAR MSUS course
- criterion 4, Advanced EULAR MSUS course

(or other equivalent level of MSUS courses by other national societies / EULAR scientifically endorsed MSUS Courses)

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

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.

GENERAL INFORMATION

Course venue

Tivoli Hotel & Congress Center

Arni Magnussons Gade 2, Copenhagen, 1577, Denmark

Web: <https://www.tivolihotel.com/meetings>

Course dates

Sunday, 29 May 2022 (Start at 14:30) – Wednesday, 1 June 2022 (End at 12:30)

Official language

English

Maximum participants

60

Course fee

1000 € (VAT included), package includes:

Sunday, 29 May 2022

- Full access to the Course
- Afternoon coffee break

Monday, 30 May 2022

- Full access to the Course
- Morning & Afternoon coffee break
- Lunch

Tuesday, 31 May 2022

- Full access to the Course
- Morning & Afternoon coffee break
- Lunch

Wednesday, 1 June 2022

- Full access to the Course
- Morning coffee break

***Note:** hotel/accommodation is not included in the course fee. EULAR will provide preferred rates for hotel/s.

Assessment & Certification

At the end of the course, all participants who have completed the course and passed the practical assessment will receive a certificate on their EULAR School user account. 100% course attendance is required.

REGISTRATION

Application requirements

- 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 transverse planes (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.
- Completion of EULAR Online Introductory Ultrasound Course is highly recommended, but not mandatory for course participation.
<https://esor.eular.org/course/view.php?id=78>
However, it is a requirement for EULAR Competency Assessment – Level 1. For more details, please follow this link: <https://esor.eular.org/course/view.php?id=94>

Application process

Online: [link to registration page](#)

Please login to your EULAR School of Rheumatology account to register. If you do not have a School account, you will need to create one before applying.

Registration deadline: 31 March 2022

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: 31 March 2022

Notification: mid-April 2022

Detailed Programme

Day 1 - Sunday, 29 May 2022

[advanced]

Time	Type of session & Title	Speakers
12:00 – 14:30	Check In & Registration	
14:30 – 14:45	Welcome and overview <ul style="list-style-type: none"> Objectives and content of the course 	L. Terslev
Chairs: MA D'Agostino and E. Filippucci		
14:45 – 15:00	Early signs of rheumatic diseases on US	E. Filippucci
15:00 – 15:20	What is the association between US findings and clinical subjective markers of rheumatic diseases?	H. B Hammer
15:20 – 15:35	US for tapering and prediction of flare	L. Terslev
Chairs: MA D'Agostino and E. Naredo		
15:35 – 15:55	US in SpA/PsA: update on validity and implementation in clinical practice and trials	MA D'Agostino
15:55 – 16:15	US in RA: update on validity and implementation in clinical practice and trials	E. Naredo
16:15 – 16:45	COFFEE BREAK	
Chair: S. Ohrndorf		
16:45 – 17:15	Brief summary of current scoring methods in rheumatology	R. Wakefield
17:15 – 19:00	Workshop Supervised US assessment and discussion of patients with RA, SpA, PsA and OA	Faculty & Tutors 1) A. Bruns 2) A. Ciechomska 3) C. Wiell 4) D. Bong 5) H. B Hammer 6) P. Balint 7) P. Mandl 8) R. Wakefield 9) S. Ohrndorf 10) U. Fredberg

Day 2 - Monday, 30 May 2022

[advanced]

Time	Type of session & Title	Speakers
Chairs: I. Möller and D. Bong		
08:30 – 09:10	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) <ul style="list-style-type: none"> knee, ankle and foot 	D. Bong/ I. Möller
09:10 – 09:30	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) <ul style="list-style-type: none"> wrist and hand 	D. Bong/ I. Möller
09:30 – 10:00	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) <ul style="list-style-type: none"> shoulder and elbow 	D. Bong/ I. Möller
10:00 – 10:45	Complex anatomic areas (scanning) and difficult US abnormalities (diagnosis) <ul style="list-style-type: none"> hip and pelvis 	D. Bong/ I. Möller
10:45 – 11:15	COFFEE BREAK	
11:15 – 13:00	Workshop <ul style="list-style-type: none"> Supervised hands-on scanning and discussion of patients with difficult US diagnosis in the upper limb 	Faculty & Tutors 1) C. Wiell 2) D. Bong 3) I. Möller 4) L. Juul 5) M. Ammitzbøll-Danielsen 6) P. Balint 7) S. Chrysidis 8) S. Torp-Pederson 9) U. Fredberg 10) V. Fana
13:00 – 14:30	LUNCH	
14:30 – 16:30	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 1) A. Bruns 2) A. Ciechomska 3) C. Wiell 4) D. Kane 5) H. B Hammer 6) I. Möller 7) L. Juul 8) M. Ammitzbøll-Danielsen 9) R. Wakefield 10) V. Fana

16:30 – 17:00	COFFEE BREAK	
Chairs: L. Terslev and A. Filer		
17:00 – 18:00	Update on new developments and on physical and technical limitations of B-mode and Doppler US impacting MSUS diagnosis/performance	J. Arendt Jensen
18:00 – 18:30	Ultrasound-guided synovial biopsy – how and when	A. Filer
18:30 – 19:00	Ultrasound-guided tenosynovial biopsy – how and when	M. Stoenoiu

Day 3 - Tuesday, 31 May 2022

[advanced]

Time	Type of session & Title	Speakers
Chairs: P. Mandl and A. Diamantopoulos		
08:30 – 08:50	Sarcopenia and how to score it	I. Möller
08:50 – 09:30	Vasculitis and live demo (10 min)	A. Diamantopoulos W. Schmidt (live demo)
09:30 – 09:45	Ultrasound in Arteriosclerosis	P. Mandl
09:45 – 10:30	US assessments of overuse and sports-related lesions	U. Fredberg
10:30 – 11:00	COFFEE BREAK	
11:00 – 12:30	Workshop <ul style="list-style-type: none"> Supervised hands-on scanning and discussion of large vessels and overuse and sports-related injuries 	Faculty & Tutors 1) A. Diamantopolous 2) B. Frederiksen 3) C. Martinoli 4) C. Wiell 5) L. Juul 6) M. Ammitzbøll-Danielsen 7) S. Torp-Pedersen 8) U. Fredberg 9) V. Fana 10) W. Schmidt
Chairs: M. Szkudlarek		
12:30 – 13:00	Ultrasound in emergencies (FAST)	S. Torp-Pedersen
13:00 – 14:30	LUNCH	

Chairs: A. Hocevar and G. Bruyn		
14:30 – 15:00	Ultrasound of the lung in rheumatic diseases	A. Delle Sedie
15:00 – 15:30	Update on ultrasound dactylitis, focusing on new elementary lesions	E. Naredo
15:30 – 16:00	Ultrasound assessment of salivary glands	A. Hocevar
16:00 – 16:30	Ultrasound assessment of peripheral nerves in rheumatic diseases	C. Martinoli
16:30 – 17:00	COFFEE BREAK	
17:00 – 19:00	<p>Workshop</p> <ul style="list-style-type: none"> Supervised hands-on scanning of non-musculoskeletal organs and dactylitis in patients and healthy subject 	<p>Faculty & Tutors</p> <ol style="list-style-type: none"> 1) A. Hocevar 2) C. Martinoli 3) C. Wiell 4) E. Filippucci 5) E. Naredo 6) L. Juul 7) M. Ammitzbøll-Danielsen 8) N. Damnajov 9) S. Finzel 10) V. Fana

Day 4 - Wednesday, 1 June 2022

[advanced]

Time	Type of session & Title	Speakers
Chairs: W. Schmidt and S. Torp-Pedersen		
08:30 – 09:00	What is different in paediatric MSUS?	D. Windschall
09:00 – 09:30	Ultrasound and MRI in arthritis- competitors or complementary	M. Boesen
09:30 – 10:00	How to write an ultrasound paper and get it published	W. Schmidt
10:00 – 10:15	COFFEE BREAK	
10:15 – 12:15	<p>Practical competency assessment for EULAR Level 1</p> <p>Participants who pass this assessment will receive EULAR Level 1 status for MSUS in Rheumatology.</p> <p>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 faculty (patients)</p>	Faculty
12:15 – 12:45	<p>Evaluation by Faculty Member</p> <p>COFFEE BREAK for participants</p>	Only Faculty Members
12:45 – 13:00	Closing Remarks	L. Terslev

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](#) [link to registration page](#).