

# 27<sup>th</sup> Sonography Course – MSUS Intermediate

## Bad Nauheim, Germany

Sunday, 31 May – Wednesday, 3 June 2020



The 27<sup>th</sup> 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

- Wolfgang Schmidt
- Sarah Ohrndorf
- Ulf Müller-Ladner

## Faculty

**Maria Antonietta D'Agostino**, France; **Christian Dejaco**, Italy; **Frederique Gandjbakhch**, France; **Georgios Filippou**, Italy; **Emilio Filippucci**, Italy; **Cees Haagsma**, Netherlands; **Hilde Berner Hammer**, Norway; **Annamaria Iagnocco**, Italy; **Juhani M Koski**, Finland; **Esperanza Naredo**, Spain; **Marcin Szkudlarek**, Denmark; **Lene Terslev**, Denmark; **Richard Wakefield**, United Kingdom

## Organising secretariat

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# GENERAL INFORMATION

## Course venue & hotel

Dolce Hotel Bad Nauheim

Elvis-Presley-Platz 1 (GPS: Terrassenstraße), 61231 Bad Nauheim, Germany

Tel.: +49 6032 3030

Email: [info@dolcebadnauheim.com](mailto:info@dolcebadnauheim.com)

Web: <https://www.dolcebadnauheim.com/en/>

## Course dates

31 May (Start at 14:30), 1 June (full day), 2 June (full day), 3 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.
- 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. For more details, please follow this link: <https://esor.eular.org/course/view.php?id=94>

## Registration

Course registration page: <https://esor.eular.org/course/view.php?id=97>

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.

**Deadline for application:** 31 March 2020

## Course fee

**1900 €** (VAT included), package includes:

Sunday, 31 May 2020

- Full access to the 27<sup>th</sup> EULAR Sonography Course
- Accommodation at the Dolce Hotel\* in single room
- Afternoon coffee break
- Dinner

Monday, 1 June 2020

- Full access to the 27<sup>th</sup> EULAR Sonography Course
- Accommodation at the Dolce Hotel\* in single room, breakfast included
- Morning & Afternoon coffee breaks
- Lunch & Dinner

Tuesday, 2 June 2020

- Full access to the 27<sup>th</sup> EULAR Sonography Course
- Accommodation at the Dolce Hotel\* in single room, breakfast included
- Morning & Afternoon coffee breaks
- Lunch & Dinner

Wednesday, 3 June 2020

- Breakfast included
- Full access to the 27<sup>th</sup> EULAR Sonography Course
- Morning coffee break

\*In case of a high number of course participants, accommodation may be provided in another hotel in Bad Nauheim for those who apply last.

**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 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 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

After the course, all participants who have successfully completed the Intermediate course will receive a certificate:

- EULAR 27<sup>th</sup> MSUS in Rheumatology Course – Intermediate [Passed]

## Detailed Programme

Day 1 – Sunday, 31 May 2020

Time	Type of session & Title	Speakers	Room
12:00 – 14:30	<b>Check In &amp; Registration</b>	Organisers	Kursaal
14:30 – 14:45	<b>Welcome and overview</b> - Objectives and content of the course - EULAR Competency assessment in MSUS	L. Terslev A. Iagnocco	Kursaal
14:45 – 15:45	<b>Chairs:</b> C. Dejaco, L. Terslev		
14:45 – 15:15	<b>Doppler physics and technology</b> <b>Doppler setting optimization</b> <b>Doppler artefacts and pitfalls</b>	L. Terslev	Kursaal
15:15 – 15:45	<b>Application, indications and limitations of Doppler in rheumatic and musculoskeletal diseases</b>	C. Dejaco	Kursaal
15:45 – 16:30	<b>Workshop</b> Supervised practical handling of Doppler US machine settings and Doppler artefacts. Supervised hands-on scanning of patients with synovitis and tenosynovitis (patients)	Faculty & Tutors	Kursaal
16:30 – 16:45	<b>COFFEE BREAK</b>		Emporensaal
16:45 – 17:45	<b>Chairs:</b> F. Gandjbakhch, MA. D'Agostino		
16:45 – 17:05	<b>US tendon lesions</b> (e.g. tendinosis, tears, sub/luxation, impingement) Definition, detection, quantification, and pitfalls	E. Naredo	Kursaal
17:05 – 17:25	<b>B-mode and Doppler enthesopathy and dactylitis</b> Definition, detection, quantification, and pitfalls	MA. D'Agostino	Kursaal
17:25 – 17:45	<b>US bone abnormalities</b> Definition, detection, quantification, and pitfalls	F. Gandjbakhch	Kursaal
17:45 – 19:00	<b>Workshop</b> Supervised hands-on scanning of patients with enthesopathy, dactylitis, tendon lesions, and bone abnormalities (patients)	Faculty & Tutors	Kursaal
19:30	<b>DINNER</b>		Platanenhof Restaurant

## Day 2 – Monday, 1 June 2020

Time	Type of session & Title	Speakers	Room
08:30 – 10:30	<b>Chairs:</b> R. Wakefield, M. Szkudlarek		
08:30 – 08:45	<b>Ultrasound in gout</b>	E. Filippucci	Kursaal
08:45 – 09:00	<b>Ultrasound in CPPD</b>	G. Filippou	Kursaal
09:00 – 09:15	<b>Live demo: crystal disease</b>	E. Filippucci	Kursaal
09:15 – 09:45	<b>Pathology of the foot</b>	R. Wakefield	Kursaal
09:45 – 10:00	<b>Live demo: Pathology of the foot</b>	R. Wakefield	Kursaal
10:00 – 10:15	<b>Pathology of the toes</b>	M. Szkudlarek	Kursaal
10:15 – 10:30	<b>Live demo: Pathology of the toes</b>	M. Szkudlarek	Kursaal
10:30 – 11:00	<b>COFFEE BREAK</b>		<b>Emporensaal</b>
11:00 – 13:00	<b>Workshop</b> Supervised hands-on scanning of patients with foot pathologies (patients)	Faculty & Tutors	Kursaal
13:00 – 14:30	<b>LUNCH</b>		<b>Platanenhof Restaurant</b>
14:30 – 15:15	<b>Chair:</b> E. Filippucci		
14:30 – 15:00	<b>Pathology of the knee</b>	G. Filippou	Kursaal
15:00 – 15:15	<b>Live demo: Pathology of the knee</b>	G. Filippou	Kursaal
15:15 – 17:00	<b>Workshop</b> Supervised hands-on scanning of patients with knee pathologies (patients)	Faculty & Tutors	Kursaal
17:00 – 17:15	<b>COFFEE BREAK</b>		<b>Emporensaal</b>
17:15 – 18:00	<b>Chair:</b> R. Wakefield		
17:15 – 17:45	<b>Pathology of the hip</b>	HB. Hammer	Kursaal
17:45 – 18:00	<b>Live demo: Pathology of the hip</b>	HB. Hammer	Kursaal
18:00 – 19:00	<b>Workshop</b> Supervised hands-on scanning of patients with hip pathologies (patients)	Faculty & Tutors	Kursaal
19:30	<b>DINNER</b>		<b>Platanenhof Restaurant</b>

## Day 3 – Tuesday, 2 June 2020

Time	Type of session & Title	Speakers	Room
08:30 – 10:00	<b>Chairs:</b> MA. D'Agostino, C. Haagsma		
08:30 – 09:00	<b>Brush up the anatomy and standard scans of the normal shoulder</b>	C. Haagsma	Kursaal
09:00 – 09:45	<b>Pathology of the shoulder</b>	MA. D'Agostino	Kursaal
09:45 – 10:00	<b>Live demo: Pathology of the shoulder</b>	MA. D'Agostino	Kursaal
10:00 – 10:30	<b>COFFEE BREAK</b>		<b>Emporensaal</b>
10:30 – 12:30	<b>Workshop</b> Supervised hands-on scanning of patients with shoulder pathology (patients)	Faculty & Tutors	Kursaal
12:30 – 13:00	<b>Chair:</b> HB Hammer		
12:30 – 12:50	<b>Pathology of the elbow</b>	A. Iagnocco	Kursaal
12:50 – 13:00	<b>Live demo: Pathology of the elbow</b>	A. Iagnocco	Kursaal
13:00 – 14:30	<b>LUNCH</b>		<b>Platanenhof Restaurant</b>
14:30 – 15:45	<b>Workshop</b> Supervised hands-on scanning of patients with elbow pathology (patients)	Faculty & Tutors	Kursaal
15:45 – 16:00	<b>COFFEE BREAK</b>		<b>Emporensaal</b>
16:00 – 17:15	<b>Chairs:</b> L. Terslev, E. Naredo		
16:00 – 16:30	<b>Pathology of the wrist and hand</b>	L. Terslev	Kursaal
16:30 – 16:45	<b>Live Demo: Pathology of the wrist and hand</b>	L. Terslev	Kursaal
16:45 – 17:00	<b>Pathology of the fingers</b>	E. Naredo	Kursaal
17:00 – 17:15	<b>Live Demo: Pathology of the fingers</b>	E. Naredo	Kursaal
17:15 – 19:00	<b>Workshop</b> Supervised hands-on scanning of patients with hand and finger pathology (patients)	Faculty & Tutors	Kursaal
19:00	<b>Group photo</b>		<b>Emporensaal</b>
19:30	<b>DINNER</b>		<b>Platanenhof Restaurant</b>



## Day 4 – Wednesday, 3 June 2020

Time	Type of session & Title	Speakers	Room
08:30 – 10:00	<b>Chairs:</b> J. Koski, HB. Hammer		
08:30 – 08:50	<b>How to score MSUS pathology</b>	HB. Hammer	Kursaal
08:50 – 09:40	<b>Ultrasound guided injections</b>	J. Koski	Kursaal
09:40 – 10:00	<b>Demo: Ultrasound guided injections</b>	J. Koski	Kursaal
10:00 – 10:30	<b>COFFEE BREAK</b>		<b>Emporensaal</b>
10:30 – 11:30	<b>Workshop</b> Supervised US-guided injections (chicken)	Faculty & Tutors	Kursaal
11:30 – 12:15	<b>Chair:</b> C. Dejaco		
11:30 – 12:15	<b>Sonoquiz</b>	E. Filippucci	Kursaal
12:15 – 12:30	<b>Closing Remarks</b>	MA. D'Agostino	Kursaal