

MUSCULOSKELETAL ULTRASOUND COURSE
- BASIC LEVEL -
Graz, October 14-16, 2026

GENERAL INFORMATION

Course opening

Wednesday, October 14th, 2026 - h 17.00

Course closing

Friday, October 16th, 2026 - h 19.00

Official course language

English

Congress Venue

Hotel Novapark

Fischeraustraße 22,
8051 Graz

www.novapark.at

Scientific Organizer

Christian Dejaco, MD, PhD, MBA

Medical University Graz; Department of Rheumatology and Immunology;
Rheumatology service; South Tyrol Health Trust; Hospital of Bruneck

Rusmir Husic, MD

Medical University Graz; Department of Rheumatology and Immunology;

Faculty

Christina Duftner, MD, PhD (Innsbruck, Austria) – EULAR teacher

Peter Mandl, MD, PhD (Vienna, Austria) – EULAR teacher

Christian Dejaco, MD, PhD, MBA (Bruneck, Italy) – EULAR teacher

Wolfgang Hartung, MD (Bad Abbach, Germany) – EULAR teacher

Wolfgang Schmidt, MD (Berlin, Germany) – EULAR teacher

Rusmir Husic, MD (Graz, Austria) – EULAR teacher

Tobias Dezordo, MD (Brixen, Italy)

Organizing Secretariat

Noelle Tybery

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8036 Graz, Austria

Course registration

Course applications (no specific form required) containing a contact e-mail address should be e-mailed to noelle.tybery@klinikum-graz.at or faxed to +43-316-38517813. For questions, please call +43-316-38517779

Registration is open for all attendees from EULAR member countries.

The course fee is **1300 EUR** per participant. This includes all course material, accomodation and coffee breaks.

OBJECTIVES

- To learn the basic normal musculoskeletal ultrasonographic (MSUS) anatomy
- To understand the basic pathological MSUS findings
- To learn the systematic and standardized sonographic scanning methods for each anatomical region
- To understand the applications, indications, and limitations of MSUS in rheumatology
- To learn proper image documentation techniques
- To acquire basic knowledge of Colour and Power Doppler applications for detecting synovial and enthesal inflammation

MAIN TOPICS

- Principles of ultrasound physics and technology; technical characteristics of ultrasound equipment used in rheumatology; applications, indications, and limitations of MSUS
- MSUS anatomy, artefacts, and misinterpretation of MSUS findings
- Standardized sonographic scanning methods for each anatomical region (shoulder, elbow, wrist and hand, hip, knee, ankle, and foot) according to EULAR recommendations
- Basic pathological sonographic findings (tendinosis, tenosynovitis, partial and complete tendon tears, enthesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities, and joint synovitis)
- Reporting of ultrasound findings and formulation of diagnoses

LIVE DEMONSTRATIONS

- Demonstration of standard scans according to EULAR guidelines
- Discussion of common artefacts and pitfalls

WORKSHOPS

- Practical training on ultrasound system settings and handling
- Supervised identification of musculoskeletal sonoanatomy
- Supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle, and foot
- Supervised hands-on scanning of patients with basic-level musculoskeletal pathologies
- Supervised assessment of basic-level sonographic pathologies and grading of inflammation

REQUIREMENTS OF ATTENDEES

- No prior experience in musculoskeletal sonography is required to attend the basic-level ultrasound course

SCIENTIFIC PROGRAMME

Day 1

16:00-17:00 **Registration**

17:00-17:15 Welcome (*R. Husic, C. Dejaco*)

Application, indications and limitations of ultrasound in rheumatology

Chairperson: *P. Mandl*

17:15-17:45 Applications and limitations of ultrasound in rheumatology (*R. Husic*)

Ultrasound physics and technology

Chairperson: *T. DeZordo*

17:45-18:00 Technical requirements, physics (*W. Hartung*)

18:00-18:30 How to optimize grey-scale and Doppler settings (*W. Hartung*)

18:30-19:15 **Workshop 1:** optimizing ultrasound settings (*all faculty*)

19:30 **Dinner**

Day 2

Sonographic pattern of the different musculoskeletal tissues and standard sonographic scans of the wrist and hand

Chairperson: R. Husic

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| 8:30-8:50 | Sonographic pattern of the different musculoskeletal tissues (C. Duftner) |
| 8:50-9:20 | Systematic investigation of wrist and hand – normal MSUS anatomy (C. Duftner) |
| 9:20-9:30 | Live demonstration: Standard scans and normal MSUS anatomy of wrist and hands (C. Duftner) |
| 9:30-10:30 | Workshop 2: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of wrist and hands (<i>all faculty</i>) |
| 10:30-11.00 | Coffee break |

Standard sonographic scans and normal MSUS anatomy of the elbow and shoulder

Chairperson: W. Schmidt

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| 11:00-11:30 | Systematic investigation of the elbow – normal MSUS anatomy (C. Dejaco) |
| 11:30-11:45 | Live demonstration: Standard scans and normal MSUS anatomy of the elbow (C. Dejaco) |
| 11:45-13:00 | Workshop 3: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of elbow (<i>all faculty</i>) |
| 13:00-14.00 | Lunch |
| 14:00-14:30 | Systematic investigation of the shoulder – normal MSUS anatomy (W. Hartung) |
| 14:30-14:45 | Live demonstration: Standard scans and normal MSUS anatomy of the shoulder (W. Hartung) |
| 14:45-16:00 | Workshop 4: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of shoulder (<i>all faculty</i>) |
| 16:00-16.30 | Coffee break |

Standard sonographic scans and normal MSUS anatomy of the hip and knee

Chairperson: C. Duftner

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| 16:30-16:45 | Systematic investigation of the hip – normal MSUS anatomy (<i>W. Schmidt</i>) |
| 16:45-17:00 | Live demonstration: Standard scans and normal MSUS anatomy of the hip (<i>W. Schmidt</i>) |
| 17:00-17:45 | Workshop 5: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of hip (<i>all faculty</i>) |
| 17:45-18:15 | Systematic investigation of the knee – normal MSUS anatomy (<i>T. DeZordo</i>) |
| 18:15-18:30 | Live demonstration: Standard scans and normal MSUS anatomy of the knee (<i>T. DeZordo</i>) |
| 18:30-19:30 | Workshop 6: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of knee (<i>all faculty</i>) |
| 19:30- 20:15 | Satellite symposium (sponsored by TBN) |
| 20:30 | <i>Dinner</i> |

Day 3

Standard sonographic scans and normal MSUS anatomy of the ankles and feet

Chairperson: W. Hartung

8:30-9:00 Systematic investigation of the ankles and feet – normal MSUS anatomy (*P. Mandl*)

9:00-9:15 **Live demonstration:** Standard scans and normal MSUS anatomy of the ankles and feet (*P. Mandl*)

9:15-10:30 **Workshop 7:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of ankles and feet (*all faculty*)

10:30-11:00 **Coffee break**

Basic pathologies, Image documentation, MSUS artefacts and pitfalls

Chairperson: C. Dejaco

11:00-11:30 Basic course pathologies part 1: Synovitis, Bursitis, Tenosynovitis (*R. Husic*)

11:30-12:00 Basic course pathologies part 2: Erosions, Osteophytes, Enthesitis (*W. Schmidt*)

12:15- 12:30 Image documentation and Reporting ultrasound findings and diagnosis (*T. DeZordo*)

12:30- 13:00 MSUS artefacts and pitfalls (*P. Mandl*)

13:00- 14:00 **Lunch**

14:00- 15:00 **Workshop 9:** Supervised practical session on patients: Basic course pathologies (*all faculty*)

What we learnt so far....

Chairperson: P. Mandl

15:00-15:30 **Live demonstration:** Standard scans and normal MSUS anatomy of wrists, hands, elbow and shoulder (*W. Hartung*)

15:30-16:00 **Live demonstration:** Standard scans and normal MSUS anatomy of hips, knees, ankle and feet (*W. Schmidt*)

16:00-16.30	<i>Coffee break</i>
16:30-18:30	Workshop 10: Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of wrist, hands, elbow, shoulder, hips, knees (<i>all faculty</i>)
18:30- 19:00	<i>Closing remarks and evaluation (R. Husic, C. Dejaco)</i>