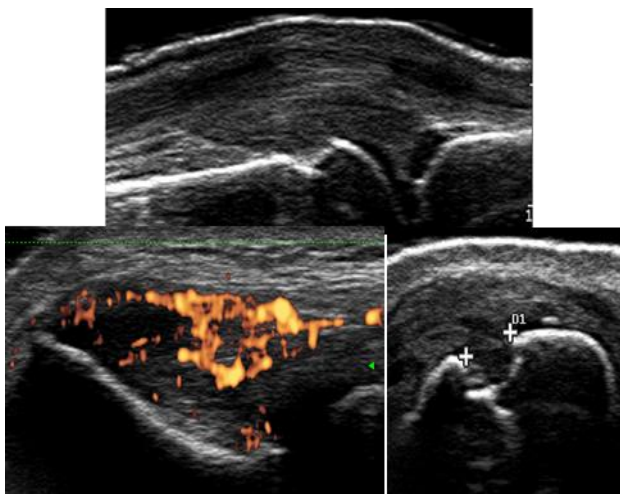


**MUSCULOSKELETAL SONOGRAPHY COURSE
FOR RHEUMATOLOGISTS
- INTERMEDIATE LEVEL -**

**May 14th – 16th, 2025
Innsbruck, Austria**



This course is scientifically endorsed by:

GENERAL INFORMATION

Course opening: Wednesday, May 14th, 2025 – 16.00

Course closing: Friday, May 16th, 2025 - 18.30

Official course language: English

Congress Venue:

AC Marriott Innsbruck

Salurner Straße 15

6020 Innsbruck, Austria

<https://www.marriott.com/en-us/hotels/innac-ac-hotel-innsbruck/overview/>

Scientific Organizers:

Christina Duftner, MD/PhD

Medical University Innsbruck/Tirol Kliniken

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6020 Innsbruck, Austria

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Senior-Organizer:

Michael Schirmer, MD

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Managed by MAW – Medizinische Ausstellungs- und Werbegesellschaft in the name of the “Verein zur Förderung der Hämatologie, Onkologie und Immunologie”, Innsbruck, Austria

GENERAL INFORMATION

Faculty / Instructors

Luis Coronel Tarancón, MD (Barcelona, Spain), EULAR teacher

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

Tobias De Zordo, MD (Brixen, Italy), EFSUMB teacher

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

Petra Hanová, MD (Prague, Czech Republic), EULAR teacher

Wolfgang Hartung, MD (Bad Abbach, Germany), EULAR /EFSUMB teacher

Sarah Ohrndorf, MD/Prof. (Berlin, Germany), EULAR teacher

Garifallia Sakellariou, MD (Pavia, Italy), EULAR teacher

Wolfgang Schmidt, MD/Prof. (Berlin, Germany), EULAR teacher

Mihaela Stegert, MD (Basel, Switzerland), EULAR teacher

Participants

The number of participants is limited to 30.

Practical sessions

The number of participants per teacher in practical sessions is five at maximum.

Course registration:

Course applications (with contact E-mail address, no specific form required) should be E-mailed to margit.bonatti@chello.at or faxed to +43-512-504-23415.

For questions, please call +43-512-934148 or +43-650-8626301

Registration is open for all attendees from EULAR member countries.

The course fee is **1100 EUR** per participant without taxes (lodging and food included).

OBJECTIVES (in accordance with EULAR guidelines)

To learn

- physics/technique, applications, use and limitations of colour and power Doppler sonography in rheumatology
- intermediate level pathologies including B-mode and Doppler findings of inflammation at joints, tendons and entheses
- detection and quantification of structural changes at bones, cartilage, tendons and entheses in rheumatology
- characteristic findings in crystal arthropathies
- basics about ultrasound guided injections

MAIN TOPICS

- colour and power Doppler physics and technology; applications, use and limitations (including artifacts) of colour and power Doppler sonography
- intermediate level pathological findings (B-mode and colour/power Doppler) at joints, tendons, bursae and entheses
- structural changes at bones, tendons and entheses in rheumatology
- characteristic changes in crystal arthropathies
- ultrasound guided injections

LIVE DEMONSTRATIONS

- to demonstrate standard scans and intermediate level pathologies in patients with rheumatic diseases
- to discuss common colour and power Doppler artefacts and pitfalls

WORKSHOPS

- optimization of colour and power Doppler settings
- supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle and foot in patients with rheumatic diseases
- supervised hands-on scanning with identification of

- intermediate level pathologies
- supervised training of ultrasound guided injections using phantoms

TIMETABLE

Musculoskeletal Sonography Course in Rheumatology, Intermediate Level, consists of >20 hours of activities within 3 days

REQUIREMENTS OF ATTENDEES

Previous performance of >100 sonographies is strongly recommended before participating at the intermediate-level course.

SCIENTIFIC PROGRAMME

Wednesday, May 14th, 2025

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

17:00 - 17:15 Welcome (*C. Duftner*)

Application, indications and limitations of B-mode and colour/power Doppler sonography in rheumatology

Chairperson: W. Hartung

17:15 - 17:45 Colour and power Doppler physics, settings and artifacts (*T. De Zordo*)

17:45 - 18:30 Use of B-mode and colour/power Doppler to detect and quantify synovial inflammation in rheumatology; differentiation of synovitis from ganglia and cysts (*L. Coronel Tarancón*)

18:30 - 19:00 **Live demonstration:** B-mode and colour/power Doppler findings in rheumatology (*L. Coronel Tarancón*)

19:00 - 19:30 **Workshop 1:** Supervised practical session: Doppler settings as well as B-mode and Doppler changes in patients with rheumatic diseases (*all faculty*)

Symposium (TBN)

Chairperson: TBN

19:30 – 20:00

20.00

Dinner

Thursday, May 15th, 2025

Structural joint lesions in rheumatology

Chairperson: S. Ohrndorf

08:30 - 09:15 Morphology and quantification of bone erosions, osteophytes and cartilage damage (*G.Sakellariou*)

09:15 - 09:30 **Live demonstration:** Structural lesions in patients with rheumatic diseases (*G.Sakellariou*)

09:30 - 11:00 **Workshop 2:** Supervised practical session: Structural lesions in patients with rheumatic diseases (*all faculty*)

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

Tendon and bursal pathologies: Inflammatory and structural lesions

Chairperson: P. Hanová

11:30 - 12:30 Tendon and bursal pathologies at shoulder: tendinosis, paratenonitis, tendon subluxation/luxation, intrasubstance tendon lesions, tendon impingement, tendon tears (*W. Hartung*)

12:30 - 13:15 **Live demonstration:** Standard scans and tendon/bursal pathologies at shoulder in rheumatic diseases (*W. Hartung*)

13:15 - 14:15 **Lunch**

14:15 - 15:30 **Workshop 3:** Supervised practical session:
Shoulder pathologies in patients with
rheumatic diseases (*all faculty*)

Sonography-guided periarticular and articular injections

Chairperson: C. Duftner

15:30 - 16:00 Performance and value of sonography guided
periarticular and articular injections (S.
Ohrndorf)

16:00 - 16:15 **Live demonstration:** Sonography guided
injections using a phantom (S. *Ohrndorf*)

16:15 - 16:45 **Coffee break**

16:45 - 18:15 **Workshop 4:** Supervised practical session
using phantoms: Ultrasound guided injections
(*all faculty*)

Symposium (TBN)

Chairperson: TBN

18:30 – 19:00

19:30 **Dinner**

Friday, May 16th, 2025

Tenosynovitis, Enthesitis, Tendonitis

Chairperson: G. Sakellariou

- 08:30 - 09:00 Detection and quantification of tenosynovitis and tendon tears (*C. Duftner*)
- 09:00 - 09:30 Enthesitis: B-mode and Doppler findings (*C. Dejaco*)
- 09:30 - 10:00 **Live demonstration:** Tenosynovitis, Enthesitis (*C. Duftner, C. Dejaco*)
- 10:00 - 11:00 **Workshop 5:** Supervised practical session: Tenosynovitis and Enthesitis (*all faculty*)
- 11:00 - 11:30 **Coffee break**

Microcrystal deposits and calcifications of ligaments, muscles, cartilage and synovia

Chairperson: S. Ohrndorf

- 11:30 - 12:00 Gout: characteristic ultrasound findings (*G. Sakellariou*)
- 12:00 - 12:30 CPPD-disease and soft tissue calcifications: ultrasound findings (*P. Hanová*)
- 12:30 - 13:00 **Live demonstration:** Ultrasound findings in gout and CPPD disease (*G. Sakellariou, P. Hanová*)
- 13:00 - 14:00 **Lunch**

14:00 - 15:15 **Workshop 6:** Supervised practical session:
Crystal arthropathies (*all faculty*)

Review of intermediate course learning objectives

Chairperson: C. Duftner

15:15 - 16:15 What have we learnt in this course –
key messages from all presentations
(*W. Hartung*)

16:15 - 17:00 Image Quiz (*L. Coronel Tarancón*)

17:00 - 18:30 **Workshop 7:** Supervised practical session:
Standard scans and intermediate course
pathologies (*all faculty*)

18:30 - 18:45 **Summary, closing remarks and
evaluation (C. Duftner)**

This course is supported by: