MUSCULOSKELETAL SONOGRAPHY COURSE
FOR RHEUMATOLOGISTS
- ADVANCED LEVEL -

May 26th – 28th, 2021
Innsbruck, Austria

This course is scientifically endorsed by:
Course opening: Wednesday, May 26th, 2021 – 16.00
Course closing: Friday, May 28th, 2021 – 19.00

Official course language: English

Congress Venue:
Hotel Grauer Bär
Universitätsstraße 5-7
6020 Innsbruck, Austria
www.innsbruck-hotels.at/hotel-grauer-baer/das-hotel

Scientific Organizers:

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Managed by Punctata GmbH andric.punctata@icloud.com
in the name of the “Verein zur Förderung der Hämatologie, Onkologie und Immunologie”, Innsbruck, Austria
**Faculty / Instructors**

Christian Dejaco, MD, PhD, MBA (Bruneck, Italy), EULAR teacher
Christina Duftner, MD, PhD (Innsbruck, Austria), EULAR teacher
Wolfgang Hartung, MD (Bad Abbach, Germany), EULAR teacher
Andrea Klauser, MD (Innsbruck, Austria), EFSUMB teacher
Alexander Loizides, MD (Innsbruck, Austria), EFSUMB teacher
Peter Mandl, MD, PhD (Vienna, Austria), EULAR teacher
Ingrid Möller, MD (Barcelona, Spain), EULAR teacher
Giorgio Tamborrini, PhD (Switzerland), EULAR teacher
Alen Zabotti, MD (Udine, Italy), EULAR teacher
Wolfgang Schmidt, MD (Berlin, Germany), 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 specifically from EULAR member countries.

The course fee is **990 EUR** per participant (excl. taxes; lodging and food included).
OBJECTIVES (in accordance with EULAR guidelines)
• To refresh basic and intermediate level course contents
• To learn advanced level pathologies including characteristic B-mode and Doppler findings in inflammatory rheumatic diseases
• To learn findings in patients with peripheral nerve entrapment syndromes
• To learn characteristic findings in vasculitis and connective tissue diseases
• To get an introduction into the recognition of soft tissue tumors, sports injuries and pediatric rheumatology
• To learn about new developments and their relevance in the field of musculoskeletal ultrasound

MAIN TOPICS
• Basic, intermediate and advanced level pathologies and ultrasound based differential diagnoses of rheumatic diseases
• Peripheral nerve entrapment syndromes
• Ultrasound in vasculitis and connective tissue diseases
• Sonographic findings in patients with tumours, sports injuries and children with rheumatic diseases
• New developments: sonoelastography, 3D/4D ultrasound

LIVE DEMONSTRATIONS
• To demonstrate standard scans, basic, intermediate and advanced level pathologies in patients with rheumatic diseases
• To demonstrate sonography of peripheral nerves and vessels
• To discuss common artefacts and pitfalls

WORKSHOPS
• Supervised hands-on scanning of patients with
rheumatic diseases

- Supervised introduction into sonography of peripheral nerves
- Supervised hands-on scanning of temporal arteries and salivary glands

**REQUIREMENTS OF ATTENDEES**

- The number of musculoskeletal ultrasound scans performed will be questioned. Previous performance of >400 is strongly recommended before participating in the advanced-level course.
16:00 - 17:00  
**Registration**

17:00 - 17:15  
Welcome (C. Duftner, G. Weiss, M. Schirmer)

**Optimisation of technical settings**
*Chairperson:* C. Duftner

17:15 - 17:25  
What the rheumatologist needs to know about Power Doppler settings (A. Zabotti)

**REFRESHER: Standard scans and specific pathologies at small joints/hands and feet**
*Chairperson:* I. Möller

17:25 – 17:50  
Standard scans (basic, intermediate and advanced level) sonoanatomy of joints and periarticular structures (G. Tamborrini)

17:50 – 18:10  
Important differential diagnoses to synovitis: tumors and nodules of the hand (G. Tamborrini)

18:10 – 18:25  
**Live demonstration:** B-mode and Power Doppler findings in Rheumatoid Arthritis (G. Tamborrini)

18:25 – 18:45  
Case series: Differentiation of rheumatoid arthritis, psoriatic arthritis, crystal arthropathies and osteoarthritis by sonography (A. Zabotti)
18:45 – 19:30  **Workshop 1:** Supervised practical session: hands and feet in patients with rheumatic diseases (*all faculty*)

**Satellite symposium (sponsored by TBN)**
*Chairperson:*  M. Schirmer
19:30 – 20:00

20:15  **Dinner**
REFRESHER: Standard scans and specific pathologies at large joints of upper limbs
Chairperson: A. Zabotti

08:30 – 09:00 Standard scans and basic, intermediate and advanced level pathologies of shoulder (W. Schmidt)

09:00 – 09:20 Live demonstration: Standard scans and pathologies shoulder joint (W. Schmidt)

09:20 – 09:50 Standard scans and basic, intermediate and advanced level pathologies of elbow (I. Möller)

09:50 – 10:10 Live demonstration: Standard scans and pathologies elbow (I. Möller)

10:10 – 10:30 Case series: Specific pathologies in shoulder scans of patients with polymyalgia rheumatica, rheumatoid arthritis and degenerative disorders (C. Duftner)

10:30 – 11:00 Coffee break

11:00 – 13:00 Workshop 2: Supervised practical session: large joints of upper limbs in patients with rheumatic diseases (all faculty)

13:00 – 14:00 Lunch
REFRESHER: ligament lesions
Chairperson: C. Duftner
14:00 – 14:25 Ligament lesions including sport injuries (G. Tamborini)

REFRESHER: Standard scans and specific pathologies at large joints of lower limbs
Chairperson: C. Duftner
14:25 – 14:55 Standard scans and basic, intermediate and advanced level pathologies of hip and knee (W. Hartung)
15:15 – 15:35 Standard scans and basic, intermediate and advanced level pathologies of ankle (P. Mandl)
15:35 – 15:55 Live demonstration: Standard scans and pathologies ankle (P. Mandl)
15:55 – 16:15 Coffee break
16:15 – 17:45 Workshop 3: Supervised practical session: large joints of lower limbs in patients with rheumatic diseases (all faculty)

REFRESHER: Enthesal lesions
Chairperson: I. Möller
17:45 – 18:05 Enthesitis: specific findings and quantification (A. Zabotti)
18:05 – 18:20 Case series: Specific pathologies in crystal arthropathies and sarcoidosis (*C. Dejaco*)

18:20 – 19:15 **Workshop 4:** Supervised practical session on entheses and ligaments of upper and lower limb (*all faculty*)

**Satellite symposium (sponsored by TBN)**
*Chairperson:* C. Duftner
19:15 – 19:45

20:00 *Dinner*
Role of ultrasound in vasculitis
Chairperson: C. Dejaco

08:30 – 09:10 Evaluation of vessels and detection of vasculitis by sonography: Diagnostic value in clinical practice, ultrasound settings and possible pitfalls (W. Schmidt)

09:10 – 09:30 Live demonstration: Ultrasound of temporal arteries and large vessels (W. Schmidt)

09:30 – 10:30 Workshop 5: Supervised practical session of temporal arteries and large vessels (all faculty)

10:30 – 11:00 Coffee break

Special indications of ultrasound in rheumatology
Chairperson: P. Mandl

11:00 – 11:20 Muscle sonography: Myositis, Myopathy and (sports related) muscle injury (I. Möller)

11:20 – 11:40 Specific aspects of ultrasound in pediatric rheumatology (W. Schmidt)

11:40 – 12:00 Sonography of salivary glands in patients with Sjögren’s syndrome (C. Dejaco)

12:00 – 12:20 Soft tissue masses, loose bodies, foreign bodies and common tumors
12:20 – 12:40  Value of ultrasound guided interventions in clinical practice (C. Duftner)

12:40 – 13:00  Scanning of the sacroiliac joints (A. Klauser)

13:00 – 13:15  **Live demonstration:** Sacroiliac joint sonography (A. Klauser)

13:15 – 14:15  **Lunch**

**Peripheral nerve sonography in rheumatology**
*Chairperson:*  I. Möller

14:15 – 15:00  Sonoanatomy and pathology of peripheral nerves (A. Loizides)

15:00 – 15:20  **Live demonstration:** Sonography of peripheral nerves (A. Loizides)

15:20 – 16:00  **Workshop 6:** Supervised practical session: Sonography of peripheral nerves (*all faculty*)

16:00 – 16:30  **Coffee break**

**Research of sonography in rheumatology**
*Chairperson:*  W. Schmidt

16:30 – 16:45  Upcoming ultrasound technologies in rheumatology: e.g. new diagnostic and therapeutic approaches to the carpal tunnel syndrome (A. Loizides)

16:45 – 17:00  How to improve your ultrasound skills (courses, e-learning) (P. Mandl)
17:00 – 17:30 Case series/Quiz: Uncommon sonographic pathological findings in rheumatology *(W. Hartung)*

**Practical skills examination**

17:30 – 18:50 **Workshop 7/ exam**: Examination of practical ultrasound skills and discussion of images and cases *(all international faculty)*

18:50 – 19:00 **Summary, closing remarks and evaluation (M. Schirmer)**
This course is supported by: