MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS - ADVANCED LEVEL -

September 21st – 23rd, 2021
Innsbruck, Austria

This course is scientifically endorsed by:
Course opening: Tuesday, September 21st, 2021 – 16.00
Course closing: Thursday, September 23rd, 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
**GENERAL INFORMATION**

**Faculty / Instructors**
*Christian Dejaco, MD, PhD, MBA (Bruneck, Italy), EULAR teacher*
*Christina Duftner, MD, PhD (Innsbruck, Austria), 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 (Switzerland), 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.
**SCIENTIFIC PROGRAMME**

*Tuesday, September 21st, 2021*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:00 - 17:00</td>
<td>Registration</td>
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<tr>
<td>17:00 - 17:15</td>
<td>Welcome (C. Duftner, G. Weiss, M. Schirmer)</td>
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**Optimisation of technical settings**  
*Chairperson:* C. Duftner

17:15 - 17:25 What the rheumatologist needs to know about Power Doppler settings *(C. Duftner)*

**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 *(C. Dejaco)*
18:45 – 19:30 Workshop 1: Supervised practical session: hands and feet in patients with rheumatic diseases (all faculty)

Satellite symposium
Chairperson: M. Schirmer
19:30 – 20:00

20:15 Dinner
**Wednesday, September 22nd, 2021**

**REFRESHER: Standard scans and specific pathologies at large joints of upper limbs**  
*Chairperson: C. Dejaco*

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 – 12:45  
**Workshop 2:** Supervised practical session: large joints of upper limbs in patients with rheumatic diseases (*all faculty*)

12:45 – 13:40  
**Lunch**
Lunch symposium (kindly supported by Janssen)
Chairperson: C. Duftner
13:40 – 14:00 The new therapeutic option in PsA: Guselkumab – study highlights (D. Haschka)

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

Role of ultrasound in vasculitis
Chairperson: C. Dejaco
14:25 – 15:05 Evaluation of vessels and detection of vasculitis by sonography: Diagnostic value in clinical practice, ultrasound settings and possible pitfalls (W. Schmidt)
15:05 – 15:25 Live demonstration: Ultrasound of temporal arteries and large vessels (W. Schmidt)
15:25 – 15:45 Coffee break
15:45 – 16:45 Workshop 3: Supervised practical session of temporal arteries and large vessels (all faculty)

Special indications of ultrasound in rheumatology – Part I
Chairperson: P. Mandl
16:45 – 17:05 Specific aspects of ultrasound in pediatric rheumatology (W. Schmidt)
REFRESHER: Enthesal lesions
Chairperson: I. Möller

17:05 – 17:25 Enthesitis: specific findings and quantification (C. Dejaco)

17:25 – 17:45 Case series: Specific pathologies in crystal arthropathies and sarcoidosis (C. Duftner)

17:45 – 18:45 Workshop 4: Supervised practical session on entheses and ligaments of upper and lower limb (all faculty)

Satellite symposium (kindly supported by Lilly)
Chairperson: M. Schirmer

18:45 – 19:15 Synovial-enthesiale Komplex der PsA - Einfluss von IL17A (G. Holak)

19:30 Dinner
Thursday, September 23rd, 2021

REFRESHER: Standard scans and specific pathologies at large joints of lower limbs
Chairperson: A. Loizides

08:30 – 09:00 Standard scans and basic, intermediate and advanced level pathologies of hip and knee (I. Möller)

09:00 – 09:20 Live demonstration: Standard scans and pathologies hip and knee (I. Möller)

09:20 – 09:40 Standard scans and basic, intermediate and advanced level pathologies of ankle (P. Mandl)

09:40 – 10:00 Live demonstration: Standard scans and pathologies ankle (P. Mandl)

10:00 – 10:20 Coffee break

10:20 – 11:15 Workshop 5: Supervised practical session: large joints of lower limbs in patients with rheumatic diseases (all faculty)

Special indications of ultrasound in rheumatology – Part II
Chairperson: P. Mandl

11:15 – 11:35 Muscle sonography: Myositis, Myopathy and (sports related) muscle injury (I. Möller)
11:35 – 11:55  Sonography of salivary glands in patients with Sjögren’s syndrome (C. Dejaco)

11:55 – 12:15  Soft tissue masses, loose bodies, foreign bodies and common tumors (A. Loizides)

12:15 – 12:35  Value of ultrasound guided interventions in clinical practice (A. Klauser)

12:35 – 12:55  Scanning of the sacroiliac joints (A. Klauser)

12:55 – 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: A. Klauser

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 (P. Mandl)

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)