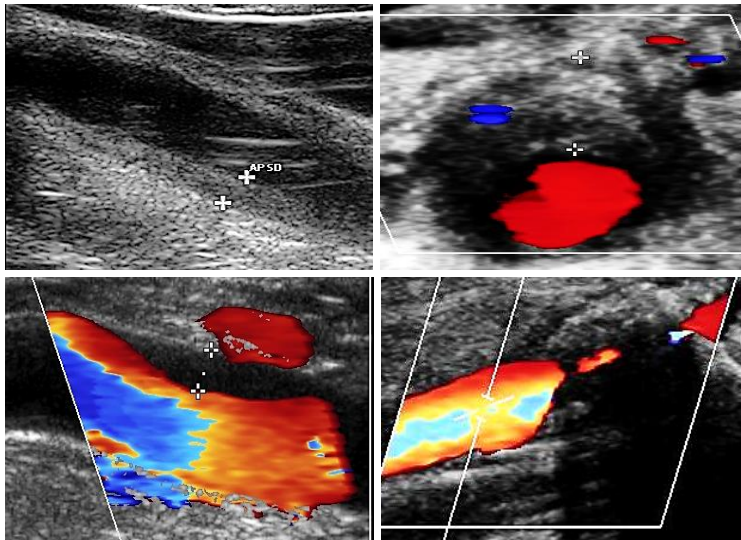


**MUSCULOSKELETAL SONOGRAPHY COURSE
FOR RHEUMATOLOGISTS
- ADVANCED LEVEL -**

**September 21st – 23rd, 2021
Innsbruck, Austria**



This course is scientifically endorsed by:

GENERAL INFORMATION

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:

Christina Duftner, MD/PhD

Medical University Innsbruck/Tirol Kliniken

Clinical Department of Internal Medicine II

6020 Innsbruck, Austria

Christian Dejaco, MD/PhD, MBA

Südtiroler Sanitätsbetrieb

Krankenhaus Bruneck

39031 Bruneck, Italy

Co-Organizer:

Michael Schirmer, MD, Associate Professor

Medical University Innsbruck

Clinical Department of Internal Medicine II

6020 Innsbruck, Austria

Organizing Secretariat:

Margit Bonatti, Austria

E-mail: margit.bonatti@chello.at

***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 the advanced-level course.

SCIENTIFIC PROGRAMME

Tuesday, September 21st, 2021

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 (*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 (sponsored by TBN)

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 – 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. Tamborrini)*

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 (*I. Möller*)

14:55 – 15:15 **Live demonstration:** Standard scans and pathologies hip and knee (*I. Möller*)

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 Entesitis: specific findings and quantification (*C. Dejaco*)

18:05 – 18:20 Case series: Specific pathologies in
crystal arthropathies and sarcoidosis (C.
Duftner)

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***

Thursday, September 23rd, 2021

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

(A. Loizides)

- 12:20 – 12:40 Value of ultrasound guided interventions in clinical practice (A. Klauser)
- 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. Schmidt*)

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:

