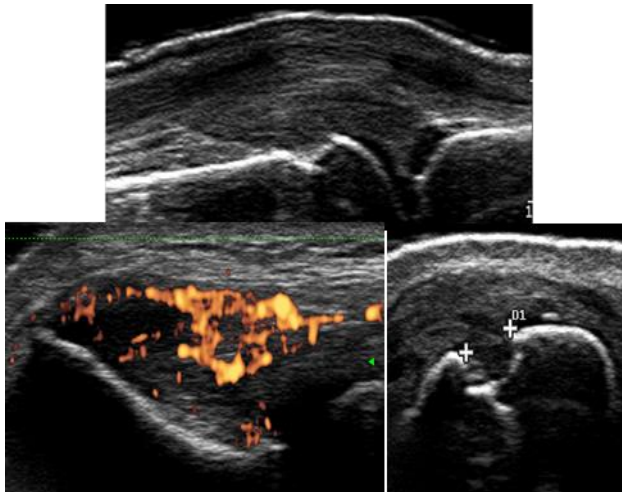


**MUSCULOSKELETAL SONOGRAPHY COURSE
FOR RHEUMATOLOGISTS
- BASIC LEVEL -**

**September 14th – 16th, 2017
Innsbruck, Austria**



This course is scientifically endorsed by:

GENERAL INFORMATION

Course opening: Thursday, September 14th, 2017 - 12.00

Course closing: Saturday, September 16th, 2017 - 14.15

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

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On behalf of MAW, Vienna, Austria; the Austrian Society of Rheumatology and Rehabilitation and the Verein zur Förderung der Hämatologie, Onkologie und Immunologie, Innsbruck

GENERAL INFORMATION

Faculty / Instructors

Marina Backhaus, MD (Berlin, Germany), EULAR teacher
Christian Dejaco, MD, PhD, MBA (Graz, Austria), EULAR teacher
Christina Duftner, MD, PhD (Innsbruck, Austria), EULAR teacher
Petra Hánová, MD (Prague, Czech Republic), EULAR teacher
Wolfgang Hartung, MD (Bad Abbach, Germany), EULAR teacher
Peter Mandl, MD, PhD (Vienna, Austria), EULAR teacher
Wolfgang Schmidt, MD (Berlin, Germany), EULAR teacher

Participants

The number of participants is limited to 25.

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 **900 EUR** per participant (tax, lodging and food included).

OBJECTIVES (in accordance with EULAR guidelines)

- To learn basic normal musculoskeletal Ultrasonographic (MSUS) anatomy
- To learn basic pathological MSUS findings
- To learn the systematic standardized sonographic scanning method of each anatomical region
- Applications, indications and limitations of MSUS in rheumatology
- Image documentation
- Basics of Colour and Power Doppler application to detect synovial and enthesal inflammation

MAIN TOPICS

- Ultrasound physics and technology, technical characteristics of ultrasound equipments in rheumatology, applications, indications and limitations of MSUS
- MSUS anatomy, artefacts and misinterpretation in MSUS
- Standardized sonographic scanning method of each anatomical region (shoulder, elbow, wrist and hand, hip, knee, ankle and foot) according to EULAR guidelines
- Basic pathological sonographic findings (tendinosis, tenosynovitis, partial and complete tendon tear, enthesitis, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis).
- Reporting US findings and diagnosis

LIVE DEMONSTRATIONS

- To demonstrate standard scans according to EULAR guidelines
- To discuss common artefacts and pitfalls

WORKSHOPS

- Practical handling of the ultrasound system settings
- 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 musculoskeletal lesions
- Supervised assessment of the basic sonographic symptoms or inflammation severity in grades

REQUIREMENTS OF ATTENDEES

- There is no experience in musculoskeletal sonography required to attend the basic level ultrasound course

SCIENTIFIC PROGRAMME

Thursday, September 14th, 2017

12:00 - 13:00 **Registration**

13:00 - 13:15 Welcome (*C. Duftner, G. Weiss*)

Application, indications and limitations of ultrasound in rheumatology

Chairperson: C. Dejaco

13:15 - 13:45 Applications and limitations of ultrasound in rheumatology (*W. Schmidt*)

Ultrasound physics and technology

Chairperson: W. Schmidt

13:45 - 14:00 Technical requirements, physics (*W. Hartung*)

14:00 - 14:30 How to optimize grey-scale and Doppler settings (*P. Mandl*)

14:30 - 15:15 **Workshop 1:** optimizing ultrasound settings (*all faculty*)

15:30 - 16:00 **Coffee break**

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

Chairperson: W. Hartung

16:00 - 16:20 Sonographic pattern of the different musculoskeletal tissues (*P. Hánová*)

- 16:20 - 16:50 Systematic investigation of wrist and hand – normal MSUS anatomy (C. Duftner)
- 16:50 - 17:00 **Live demonstration:** Standard scans and normal MSUS anatomy of wrist and hands (C. Duftner)
- 17:00 - 18.00 **Workshop 2:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of wrist and hands (*all faculty*)

Satellite symposium (sponsored by MSD)

Chairperson: M. Schirmer

- 18:00 - 19:00 New developments in the field of musculoskeletal ultrasound and their clinical impact (A. Klauser)

19:30 ***Dinner***

Friday, September 15th, 2017

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

Chairperson: C. Duftner

08:30 - 09:00 Systematic investigation of the elbow – normal MSUS anatomy (*P. Hánová*)

09:00 - 09:15 **Live demonstration:** Standard scans and normal MSUS anatomy of the elbow (*P. Hánová*)

09:15 - 10:30 **Workshop 3:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of elbow (*all faculty*)

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

11:00 - 11:30 Systematic investigation of the shoulder – normal MSUS anatomy (*M. Backhaus*)

11:30 - 11:45 **Live demonstration:** Standard scans and normal MSUS anatomy of the shoulder (*M. Backhaus*)

11:45 - 13:00 **Workshop 4:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of shoulder (*all faculty*)

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

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

Chairperson: P. Hánová

- 14:00 - 14:15 Systematic investigation of the hip – normal MSUS anatomy (*W. Hartung*)
- 14:15 - 14:30 **Live demonstration:** Standard scans and normal MSUS anatomy of the hip (*W. Hartung*)
- 14:30 - 15:15 **Workshop 5:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of hip (*all faculty*)
- 15:15 - 15:45 Systematic investigation of the knee – normal MSUS anatomy (*W. Schmidt*)
- 15:45 - 16:00 **Live demonstration:** Standard scans and normal MSUS anatomy of the knee (*W. Schmidt*)
- 16:00 - 16:30 **Coffee break**
- 16:30 - 17:30 **Workshop 6:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of knee (*all faculty*)

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

Chairperson: P. Mandl

- 17:30 - 18:00 Systematic investigation of the ankles and feet – normal MSUS anatomy (*C. Dejaco*)
- 18:00 - 18:15 **Live demonstration:** Standard scans and normal MSUS anatomy of the ankles and feet (*C. Dejaco*)

18:15 - 19:30 **Workshop 7:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of ankles and feet (*all faculty*)

20:00 ***Dinner***

Saturday, September 16th, 2017

Basic pathologies, image documentation, MSUS artefacts and pitfalls

Chairperson: C. Duftner

- 08:30 - 09:00 Basic course pathologies part 1: Synovitis, Bursitis, Tenosynovitis (*M. Backhaus*)
- 09:00 - 09:30 Basic course pathologies part 2: Erosions, Osteophytes, Enthesitis (*P. Mandl*)
- 09:30 – 09:45 Image documentation and reporting ultrasound findings and diagnosis (*C. Dejaco*)
- 09:45 - 10:15 MSUS artefacts and pitfalls (*P. Mandl*)
- 10:15 - 10:45 **Coffee break**
- 10:45- 12:00 **Workshop 8:** Supervised practical session on patients: Basic course pathologies (*all faculty*)

What we learnt so far....

Chairperson: C. Dejaco

- 12:00 - 12:30 **Live demonstration:** Standard scans and normal MSUS anatomy of wrists, hands, elbow and shoulder (*W. Hartung*)
- 12:30 - 13:00 **Live demonstration:** Standard scans and normal MSUS anatomy of hips, knees, ankle and feet (*P. Mandl*)
- 13:00 - 14:00 **Workshop 9:** Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of wrist, hands, elbow, shoulder, hip, knee (*all faculty*)

14:00 - 14:15 ***Summary, closing remarks and evaluation
(M. Schirmer)***

This course is supported by: