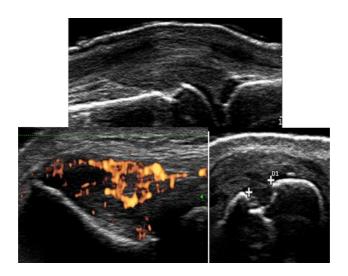
#### MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS - BASIC LEVEL -

### October 9<sup>th</sup> – 11<sup>th</sup>, 2019 Innsbruck, Austria



This course is scientifically endorsed by:



#### **GENERAL INFORMATION**

**Course opening:** Wednesday, October 9<sup>th</sup>, 2019 – 16.00 **Course closing:** Friday, October 11<sup>th</sup>, 2019 – 18.15

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

Medical University Innsbruck/Tirol Kliniken Clinical Department of Internal Medicine II 6020 Innsbruck. Austria

#### Christian Dejaco, MD/PhD, MBA

Medical University Graz
Department of Rheumatology and Immunology
8036 Graz, Austria

#### Senior-Organizer:

#### Michael Schirmer, MD

Medical University Innsbruck Clinical Department of Internal Medicine II 6020 Innsbruck, Austria

#### Organizing Secretariat:

Margit Bonatti, Austria

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Managed by Punctata GmbH <u>andric.punctata@icloud.com</u> in the name of the "Verein zur Förderung der Hämatologie, Onkologie und Immunologie", Innsbruck, Austria

#### **GENERAL INFORMATION**

#### Faculty / Instructors

Peter Balint, MD (Budapest, Hungary), EULAR teacher Christian Dejaco, MD, PhD, MBA (Graz, Austria), EULAR teacher

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

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

Annamaria Iagnocco, MD (Torino, Italy), EULAR teacher Andrea Klauser, MD (Innsbruck, Austria), EFSUMB teacher Peter Mandl, MD, PhD (Vienna, Austria), EULAR teacher Johannes Strunk, MD (Köln, 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 <a href="mailto:margit.bonatti@chello.at">margit.bonatti@chello.at</a> 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 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 entheseal 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**

#### Wednesday, October 9th, 2019

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

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

## Application, indications and limitations of ultrasound in rheumatology

Chairperson: C. Dejaco

17:15 - 17:45 Applications and limitations of ultrasound in

rheumatology (P. Balint)

#### Ultrasound physics and technology

Chairperson: J. Strunk

17:45 - 18:00 Technical requirements, physics (W.

Hartung)

18:00 - 18:30 How to optimize grey-scale and Doppler

settings (P. Balint)

18:30 - 19:15 Workshop 1: optimizing ultrasound

settings (all faculty)

20.00 **Dinner** 

#### Thursday, October 10th, 2019

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

Chairperson: W. Hartung

08:30 - 08:50 Sonographic pattern of the different

musculoskeletal tissues (C. Duftner)

08:50 – 09:20 Systematic investigation of wrist and

hand – normal MSUS anatomy (C.

Duftner)

09:20 – 09:30 Live demonstration: Standard scans

and normal MSUS anatomy of wrist and hands

(C. Duftner)

09:30 – 10:30 Workshop 2: Supervised practical session on

healthy subjects: Standard scans and normal MSUS anatomy of wrist and hands (all faculty)

10:30 - 11:00 Coffee break

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

Chairperson: C. Duftner

11:00 – 11:30 Systematic investigation of the elbow – normal

MSUS anatomy (C. Dejaco)

11.30 - 11:45 Live demonstration: Standard scans and

normal MSUS anatomy of the elbow

(C. Dejaco)

11:45 – 13.00	<b>Workshop 3:</b> Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of elbow <i>(all faculty)</i>
13:00 - 14:00	Lunch
14:00 - 14:30	Systematic investigation of the shoulder – normal MSUS anatomy ( <i>J. Strunk</i> )
14:30 - 14:45	<b>Live demonstration</b> : Standard scans and normal MSUS anatomy of the shoulder ( <i>J. Strunk</i> )
14:45 - 16:00	<b>Workshop 4:</b> Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of shoulder (all faculty)
16:00 - 16:30	Coffee Break
Standard sonographic scans and normal MSUS anatomy of the hip and knee Chairperson: J. Strunk	
16:30 - 16:45	Customatic investigation of the him margar
	Systematic investigation of the hip – normal MSUS anatomy (W. Hartung)
16:45 - 17:00	
16:45 - 17:00 17:00 - 17:45	MSUS anatomy (W. Hartung)  Live demonstration: Standard scans and normal MSUS anatomy of the hip (W.

18:15 - 18:30	<b>Live demonstration</b> : Standard scans and normal MSUS anatomy of the knee ( <i>P. Balint</i> )
18:30 - 19:30	<b>Workshop 6:</b> Supervised practical session on healthy subjects: Standard scans and normal MSUS anatomy of knee (all faculty)
20:15	Dinner

#### Friday, Oktober 11th, 2019

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

Chairperson: P. Mandl 08:30 - 09:00 Systematic investigation of the ankles and feet normal MSUS anatomy (P. Mandl) 09:00 - 09:15 Live demonstration: Standard scans and normal MSUS anatomy of the ankles and feet (P. Mandl) 09:15 - 10:30 **Workshop 7:** Supervised practical session on

healthy subjects: Standard scans and normal MSUS anatomy of ankles and feet (all faculty)

10:30 - 11:00 Coffee break

#### Basic pathologies, image documentation, MSUS artefacts and pitfalls

Chairperson: C. Duftner 11:00 - 11:30 Basic course pathologies part 1: Synovitis, Bursitis, Tenosynovitis (A. lagnocco) 11:30 - 12:00 Basic course pathologies part 2: Erosions, Osteophytes, Enthesitis (*P. Mandl*) 12:00 – 12:15 Image documentation and reporting ultrasound findings and diagnosis (C. Dejaco) 12:15 - 12:45

MSUS artefacts and pitfalls (J. Strunk)

#### 12:45 - 13:45 **Lunch**

#### Lunch symposium (sponsored by UCB)

Chairperson: C. Duftner

13:45- 14:15 "Spondyloarthritis – genderspezifisch

betrachtet" (J. Held)

14:15- 15:15 Workshop 8: Supervised practical session on

patients: Basic course pathologies (all faculty)

#### What we learnt so far ....

Chairperson: C. Dejaco

15:15 - 15:45 Live demonstration: Standard scans and

normal MSUS anatomy of wrists, hands,

elbow and shoulder (J. Strunk)

15:45 - 16:15 Live demonstration: Standard scans and

normal MSUS anatomy of hips, knees, ankle

and feet (W. Hartung)

16:15 - 18:00 **Workshop 9:** Supervised practical session on

healthy subjects: Standard scans and normal MSUS anatomy of wrist, hands, elbow,

shoulder, hip, knee (all faculty)

18:00 - 18:15 Summary, closing remarks and evaluation

(M. Schirmer)

This course is supported by:



















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