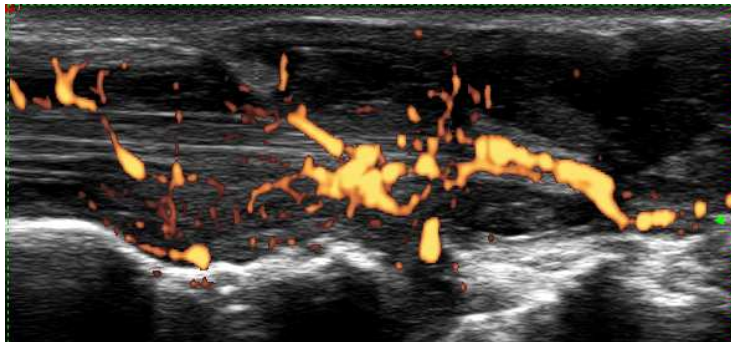


**MUSCULOSKELETAL SONOGRAPHY  
COURSE IN RHEUMATOLOGY  
- ADVANCED LEVEL -  
Graz, November 7th – 9th, 2018**



This course has been scientifically endorsed by:



Dear colleague,

ultrasound is increasingly used in rheumatology for diagnostic and monitoring purposes: It is valuable to detect subclinical inflammation in arthritis and may support the exclusion of active inflammation in patients with chronic joint pain. Sonography may also be useful in patients with suspected large vessel arteritis, Sjögren's syndrome, carpal tunnel syndrome and several other rheumatic conditions. In this advanced level EUROSON School course we will present the state of the art of ultrasound findings in inflammatory and non-inflammatory musculoskeletal conditions, connective tissue diseases and vasculitis. In addition, we will teach the application of sonography for the investigation of nerves, trauma and tumours. This course is composed of clinical lectures, live demonstrations and hands-on sessions in small groups.

All speakers and tutors are experienced sonographers and certified EULAR teachers. The majority of speakers are also EFSUMB level 3 sonographers.

We invite all physicians and health professionals interested to learn the applications of sonography in rheumatology to this EUROSON School course.

We hope to welcome you in November 2018 in Graz, Austria

**Christian Dejaco and Rusmir Husic**

## GENERAL INFORMATION

### Course opening

Wednesday, November 7th, 2018 - h 17.00

### Course closing

Friday, November 9th, 2018 - h 19.00

### Official course language

English

### Congress Venue

Hotel Weitzer  
Grieskai 12-16,  
8020 Graz, Austria  
[www.weitzer.com](http://www.weitzer.com)

### Scientific Organizer

#### **Christian Dejaco, MD, PhD, MBA**

Medical University Graz; Department of Rheumatology and Immunology; Rheumatology service; South Tyrol Health Trust; Hospital of Bruneck

#### **Rusmir Husic, MD**

Medical University Graz; Department of Rheumatology and Immunology;

### Faculty

*Wolfgang Hartung, Germany (EFSUMB level 3, EULAR teacher),*

*Wolfgang Schmidt, Germany (EFSUMB level 3, EULAR teacher),*

*Lene Terslev, Denmark (EFSUMB level 3, EULAR teacher),*

*Christian Dejaco, Austria (EFSUMB level 3, EULAR teacher),*

*Christina Duftner, Austria (EULAR teacher)*

*Rusmir Husic, Austria (EULAR teacher),*

*Peter Mandl, Austria (EFSUMB level 3, EULAR teacher),*

*Annamaria Iagnocco, Italy (EFSUMB level 3, EULAR teacher),*

### Organizing Secretariat

#### **Noelle Tybery**

Department of Rheumatology and Immunology  
8036 Graz, Austria

### Course registration

Course applications (using the form below) containing a contact e-mail address should be e-mailed to [noelle.tybery@klinikum-graz.at](mailto:noelle.tybery@klinikum-graz.at) or faxed to +43-316-38517813. For questions, please call +43-316-38517779

The course fee is **900 EUR** per participant (tax, 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 tumours, 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 diagnosis 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
- 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

### **REQUIREMENTS OF ATTENDEES**

- Previous participation in basic and intermediate-level courses as well as previous performance of >400 ultrasound scans is recommended

### **EXAM OF PRACTICAL SKILLS**

- A final practical exam will be offered to participants by international faculty members

### **COURSE REGISTRATION**

The course is open for all attendees from EULAR and EFSUMB member countries. Applications should be e-mailed to [noelle.tybery@klinikum-graz.at](mailto:noelle.tybery@klinikum-graz.at)

## SCIENTIFIC PROGRAMME

Wednesday, November 7<sup>th</sup>, 2018

16:00-17:00      **Registration**

17:00-17:15      Welcome (C.Dejaco)

### Optimisation of technical settings

Chairperson: C. Duftner

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

### Refresher: standard scans and specific pathologies of hands and feet

Chairperson: C. Duftner

17:25-17:50      Standard scans; basic, intermediate and advanced level pathologies at hands and feet (A. Iagnocco)

17:50-18:10      Quantification and scoring systems of synovitis and tenosynovitis, minimal requirements of documentation (A. Iagnocco)

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

18:25-18:45      Case series: Differentiation of rheumatoid arthritis, psoriatic arthritis, and osteoarthritis by sonography (R. Husic)

18:45-19:30

**Workshop 1:** Supervised practical session: Hands and feet in patients with rheumatic diseases (*all faculty*)

19:30-20:00

**Satelite Symposium:**  
Sponsored bei UCB

20:00

**Dinner**

**Thursday, November 8<sup>th</sup>, 2018**

**Refresher: standard scans and specific pathologies at large joints of upper limbs**

*Chairperson: A. Iagnocco*

8:30-9:00	Standard scans; basic, intermediate and advanced level pathologies of elbow ( <i>C. Dejaco</i> )
9:00-9:20	<b>Live demonstration:</b> Standard scans and pathologies of elbow ( <i>C. Dejaco</i> )
9:20-9:50	Standard scans; basic, intermediate and advanced level pathologies of shoulder ( <i>W. Schmidt</i> )
9:50-10:10	<b>Live demonstration:</b> Standard scans and pathologies of the Shoulder ( <i>W. Schmidt</i> )
10:10-10:30	Case series: Specific pathologies in shoulders of patients with polymyalgia rheumatica, rheumatoid arthritis and degenerative disorders ( <i>C. Duftner</i> )
10:30-11:00	<b>Coffee break</b>
11:00-13:00	<b>Workshop 2:</b> Supervised practical session: large joints of upper limbs in patients with rheumatic diseases ( <i>all faculty</i> )
13:00-14:00	<b>Lunch</b>

**Refresher: standard scans and specific pathologies at large joints of lower limbs**

*Chairperson: R. Husic*

14:00-14:30	Standard scans; basic, intermediate and advanced level pathologies of hip and knee ( <i>W. Hartung</i> )
14:30-14:50	<b>Live demonstration:</b> Standard scans and pathologies of hip and knee ( <i>W. Hartung</i> )
14:50-15:10	Standard scans; basic, intermediate and advanced level pathologies of ankle ( <i>P. Mandl</i> )
15:10-15:30	<b>Live demonstration:</b> Standard scans and pathologies of ankle ( <i>P. Mandl</i> )
15:30-15:45	Case series: Specific pathologies in crystal arthropathies and sarcoidosis ( <i>C. Duftner</i> )
15:45-16:15	<b>Coffee break</b>
16:15-17:45	<b>Workshop 3:</b> Supervised practical session: large joints of lower limbs in patients with rheumatic diseases ( <i>all faculty</i> )

**Refresher: enthesal and ligament lesions**

*Chairperson: P. Mandl*

17:45-18:05	Enthesitis: specific findings and quantification ( <i>L. Terslev</i> )
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18:05-18:30	Ligament lesions including sport injuries ( <i>L. Terslev</i> )
18:30-19:15	<b>Workshop 4:</b> Supervised practical session: Supervised practical session on entheses and ligaments of lower limb ( <i>all faculty</i> )
19:15 – 19:45	<b>Satelite Symposium:</b> sponsered bei BMS
20:00	<b>Dinner</b>

**Friday, November 9<sup>th</sup> , 2018**

### **Role of ultrasound in vasculitis**

*Chairperson:* L. Terslev

8:30-9:10	Evaluation of vessels and detection of vasculitis by sonography: Diagnostic value in clinical practice, ultrasound settings and possible pitfalls ( <i>W. Schmidt</i> )
9:10-9:30	<b>Live demonstration:</b> Ultrasound of temporal arteries and large vessels ( <i>W. Schmidt</i> )
9:30-10:30	<b>Workshop 5:</b> Supervised practical session of temporal arteries and large vessels ( <i>all faculty</i> )
10:30-11:00	<b>Coffee break</b>

### **Special indications of sonography in rheumatology**

*Chairpersons:* C. Dejaco

11:00- 11:20	Muscle sonography: Myositis, Myopathy and (sports related) muscle injury ( <i>P. Mandl</i> )
11:20- 11:40	Specific aspects of ultrasound in pediatric rheumatology ( <i>W. Schmidt</i> )
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 tumours  
(*L. Terslev*)

12:20- 12:40      Value of ultrasound-guided  
interventions in clinical practice (*C.  
Duftner*)

12:40- 13:00      Scanning of sacroiliac joints (*W.  
Hartung*)

13:00- 13:15      **Live demonstration:** Sacroiliac joint  
sonography (*W. Hartung*)

13:15-14:15      **Lunch**

### **Peripheral nerve sonography for the rheumatologist**

*Chairperson:*    *W. Schmidt*

14:15-15:00      Sonoanatomy and pathology of  
peripheral nerves (*W. Hartung*)

15:00-15:20      **Live demonstration:** Sonography of  
peripheral nerves (*W. Hartung*)

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**

*Chairpersons:*    *W. Hartung*

16:30- 16:45      What are the upcoming ultrasound  
technologies in rheumatology?  
(sonoelastography, 3- and 4-  
dimensional MSUS) (*A. Iagnocco*)

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 (*L. Terslev*)

### **Practical skills examination**

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

18:50-19:00      **Summary and closing remarks** (*C.  
Dejaco*)



## REGISTRATION FORM

MUSCULOSKELETAL SONOGRAPHY COURSE FOR  
RHEUMATOLOGISTS  
-Advanced Level -

Fax: (+43)316-385-17813 or Mail: [noelle.tybery@klinikum-graz.at](mailto:noelle.tybery@klinikum-graz.at)

Name: \_\_\_\_\_

First name: \_\_\_\_\_ Titel: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Please pay the registration fee not later than**

**30.6.2018 on account : 20241086373,**

**BLZ: 56.000 to Hypo Bank Styria**

**IBAN: AT55 5600 0202 4108 6373**

**BIC: HYSTAT2G**

**Titled : "Sonography Course 2018 – your Name"**