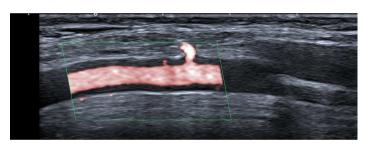


## MUSCULOSKELETAL SONOGRAPHY COURSE IN RHEUMATOLOGY - ADVANCED LEVEL-Graz, April 17th – 19th, 2024



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.

Most speakers and tutors are experienced sonographers and certified EULAR teachers as well as EFSUMB level 3 sonographers. 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 April 2024 in Graz, Austria

**Christian Dejaco and Rusmir Husic** 

#### **GENERAL INFORMATION**

Course opening Wednesday, April 17<sup>th</sup>, 2024 - h 17.00

**Course closing** Friday, April 19<sup>th</sup>, 2024 - h 19.00

Official course language English

Congress Venue Hotel Novapark Fischeraustraße 22, 8051 Graz www.novapark.at

#### 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

Luis Coronel, Spain (EULAR teacher), rheumatologist Wolfgang Schmidt, Germany (EFSUMB level 3, EULAR teacher), rheumatologist Christian Dejaco, Austria (EFSUMB level 3, EULAR teacher), rheumatologist Christina Duftner, Austria (EULAR teacher), rheumatologist Rusmir Husic, Austria (EULAR teacher), rheumatologist Peter Mandl, Austria (EFSUMB level 3, EULAR teacher).

rheumatologist

Raphael Micheroli, Switzerland, (EULAR teacher), rheumatologist Sarah Ohrndorf, Germany, (EULAR teacher), rheumatologist Giorgio Tamborrini, Switzerland (EFSUMB level 3, EULAR teacher), rheumatologist Tobias DeZordo, Italy, radiologist

**Tutor for practical workshops** *Tommaso Buzzegoli, Italy, radiologist* 

**Organizing Secretariat** *Noelle Tybery* Department of Rheumatology and Immunology 8036 Graz, Austria

#### **Course registration**

Course applications (no specific form required) containing a contact e-mail address should be e-mailed to **noelle.tybery@klinikum-graz.at** or faxed to +43-316-38517813. For questions, please call +43-316-38517779

Registration is open for all attendees from EULAR member countries. The number of participants is limited to 25; for workshops, there will be a maximum of 5 participants per tutor.

The course fee is **1000 EUR** per participant (tax, lodging and food included).

# **OBJECTIVES** (in accordance with EULAR recommendations)

- 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 and salivary glands

## **REQUIREMENTS OF ATTENDEES**

 Prvious participation at basic and intermetiate-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 (not valid for EULAR certificate)

## **COURSE REGISTRATION**

The course is open for all attendees from EFSUMB member countries. Applications should be e-mailed to noelle.tybery@klinikum-graz.at

## SCIENTIFIC PROGRAMME

## Day 1

Registration 16:00-17:00 Welcome (C. Dejaco) 17:00-17:15 Refresher: standard scans and specific pathologies of hands and feet Chairperson: C. Duftner Standard scans; basic, intermediate 17:15-17:45 and advanced level pathologies at hands and feet (S. Ohrndorf) Live demonstration: B-mode and 17:45-18:00 Power Doppler findings in Rheumatoid Arthritis (S. Ohrndorf) 18:00-18:45 Workshop 1: Supervised practical session: Hands and feet in patients with rheumatic diseases (C. Duftner, S. Ohrndorf, L. Coronel, R. Husic) 18:45-19:10 Quantification and scoring systems of synovitis and tenosynovitis, minimal requirements of documentation (C. Duftner) Case series hands: Differentiation of 19:10-19:30 rheumatoid arthritis, psoriatic arthrtis, and osteoarthritis by sonography (R. Husic)

19:30-20:00	Satelite Symposium: to be named
20:15	Dinner
	Day 2
Refresher: stand large joints of up	ard scans and specific pathologies at per limbs
Chairperson: C.	. Dejaco
8:30-9:00	Standard scans; basic, intermediate and advanced level pathologies of elbow <i>(L. Coronel)</i>
9:00-9:30	Standard scans; basic, intermediate and advanced level pathologies of shoulder ( <i>G. Tamborrini</i> )
	Live demonstration: Standard scans and pathologies of large joints of
9:30-9:50	upper limbs <i>(G. Tamborrini)</i>
9:30-9:50 9:50-10:10	upper limbs <i>(G. Tamborrini)</i> Case series: Specific pathologies in shoulder scans of patients with polymyalgia rheumatica, rheumatoid arthritis and degenerative disorders <i>(C. Duftner)</i>

10:35-11:40	<i>Workshop 2:</i> Supervised practical session: large joints of upper limbs in patients with rheumatic diseases ( <i>G. Tamborrini, L. Coronel, R. Micheroli,</i>	15:30-16:00	Ligament lesions including sport injuries (T. Dezordo)
	P. Mandl)	16:00-16:30	Coffee break
large joints of lo Chairperson: R	. Husic	16:30-17:30	<i>Workshop 4:</i> Supervised practical session: Entheses and ligaments in patients with rheumatic diseases ( <i>R. Micheroli, S. Ohrndorf, P. Mandl, G.</i>
11:45-12:15	Standard scans; basic, intermediate and advanced level pathologies of hip		Tamborrini)
	and knee (R. Micheroli)	<b>Role of ultrasou</b> Chairperson: F	
12:15-12:30	Live demonstration: Standard scans		
	and pathologies of hip and knee ( <i>R. Micheroli</i> )	17:30-18:10	Evaluation of vessels and detection of vasculitis by sonography: Diagnostic value in clinical practice, ultrasound
12:30-12:50	Standard scans; basic, intermediate and advanced level pathologies of ankle (P. Mandl		settings and possible pitfalls (W. Schmidt)
12:50-13:00	<b>Live demonstration</b> : Standard scans and pathologies of ankle ( <i>P. Mandl</i> )	18:10-18:30	<b>Live demonstration:</b> Ultrasound of temporal arteries and large vessels <i>(W. Schmidt)</i>
13:00-14:00	Lunch	18:30-19:20	<i>Workshop 5:</i> Supervised practical session: Supervised practical session
14:00-15:00	<i>Workshop 3:</i> Supervised practical session: large joints of lower limbs in patients with rheumatic diseases (P. Mandl, R. Micheroli, T. Dezordo, L.		on large vessels (W. Schmidt, C. Dejaco, C. Duftner, R. Micheroli)
	Coronell)	19:20-19:50	Satelite Symposium: to be named
		20:30	Dinner
<b>Refresher: enthe</b> Chairperson: P	esal and ligament lesions . Mandl		
15:00-15:30	Enthesitis: specific findings and quantification ( <i>R. Micheroli</i> )		

## Day 3

Special indications o Chairpersons:	f sonography in rheumatology (1) <i>C. Dejaco</i>
8:30- 08:50	Muscle sonography: Myositis, Myopathy and (sports related) muscle injury <i>(G. Tamborrini)</i>
08:50- 9:05	Specific aspects of ultrasound in pediatric rheumatology (W. Schmidt)
9:05- 9:20	Sonography of salivary glands in patients with Sjögren`s syndrome <i>(C. Dejaco)</i>
9:20- 9:35	Soft tissue masses, loose bodies, foreign bodies and common tumours <i>(L. Coronel)</i>
9:35-10:30	<i>Workshop 6:</i> Supervised practical session: Supervised practical session on salivary glands and other special indications ( <i>P. Mandl, L. Coronel, W. Schmidt, G. Tamborrini</i> )
10:30-11.00	Coffee break
Special indications o Chairpersons:	f sonography in rheumatology (2) <i>R. Husic</i>
11:00- 11:20	Value of ultrasound-guided interventions in clinical practice <i>(C. Duftner)</i>
11:20- 11:45	Scaning of sacroiliac joints (T. Dezordo)

11:45- 12:00	Live demonstration: Sacroiliac joint sconography ( <i>T. Dezordo</i> )
12:00-13:00	<i>Workshop 7:</i> Supervised practical session: Freestyle – the participants decide what to scan ( <i>R. Husic, C. Duftner, T. Buzzegoli, T. Dezordo</i> )
13:00-14:00	Lunch
	e sonography for the rheumatologist
14:00-14:30	Sonoanatomy and pathology of peripheral nerves and ( <i>T. Dezordo</i> )
14:30-15:00	<b>Live demonstration:</b> Sonography of peripheral nerves ( <i>T. Dezordo</i> )
15:05-16:00	<i>Workshop 8:</i> Supervised practical session: Sonography of peripheral
	nerves (T. Dezordo, T. Buzzegoli, L Coronel, G. Tamborrini)
16:00-16:30 <b>(</b>	
	Coronel, G. Tamborrini)
Research of sor	Coronel, G. Tamborrini) Coffee break nography in rheumatology
Research of sor Chairpersons:	Coronel, G. Tamborrini) Coffee break nography in rheumatology <i>R. Husic</i> What are the upcoming ultrasound technologies in rheumatology? (sonoelastography, articifical interlligence dimensional MSUS) ( <i>S.</i>

17:00-17:30 Case series/Quiz: Uncommon sonographic pathological findings in rheumatology (R. Micheroli)

#### Practical skills examination

Workshop 9 exam: Examination of 17:30-18:30 practical ultrasound skills and discussion of images and cases (C. Dejaco, W. Schmidt, S. Ohrndorf)

18:30-19:00 Summary and closing remarks (R. Husic)





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