



# MUSCULOSKELETAL ULTRASOUND IN RHEUMATOLOGY BASIC COURSE

Belgrade, 20-22.02.2025



Hotel M, Belgrade



## General Information and Course Programme

**Congress Venue:** *Hotel M, Belgrade, Serbia*

**Date:** *February 20 – 22, 2025*

**Official language:** *English*

**Executive director of the Course:** *Prof. Predrag Ostojić, Serbia*

**Scientific Director of the Course:** *Prof. Annamaria Iagnocco, Italy*

**Organizing Secretariat:** *Rheumatology Association of Serbia*

**Secretary of the Course:** *Milica Basarić and Milica Grujić*

**Assistant Secretaries of the Course:** *Marko Perović and Marija Atanasković Popović*

**Technical organizer:** *Tourist agency Mondorama doo, Nis, Serbia*

### Faculty

The speakers will come from major European musculoskeletal ultrasound research centers and are rheumatologists mostly involved in previous EULAR courses.

### The contacted faculty is:

*Annamaria Iagnocco, Italy; Peter Mandl, Austria; Peter Balint, Hungary; Nemanja Damjanov, Serbia; Violeta Maria Vlad, Romania; Mihaela Micu Cosmina, Romania; Giasna Giokis, Greece; Vlado Skakić, Serbia, Slavica Prodanović, Serbia; Branko Barać, Serbia*

### Instructors

*Annamaria Iagnocco, Italy; Peter Mandl, Austria; Peter Balint, Hungary; Nemanja Damjanov, Serbia; Violeta Maria Vlad, Romania; Mihaela Micu Cosmina, Romania; Giasna Giokis, Greece; Vlado Skakić, Serbia, Slavica Prodanović, Serbia; Branko Barać, Serbia; Milica Grujić, Serbia; Milica Basarić, Serbia*

## Registration for this course is open to all EULAR member countries

- The number of participants is limited to 30
- Some pharmaceutical companies will support the course logistically and with sponsorship
- Sponsors will not have influence on the programme, its content or speakers
- There will be an evaluation of the course / meeting by attendees
- The course is CME accredited by the Health Council of Serbia

## INVITATION TO PARTICIPATE

Registration fee	<b>850</b> EUR
Registration fee&accommodation	<b>1020</b> EUR
Single room supplement (for two nights)	<b>110</b> EUR

**Registration fee include:** Course, educational material, lunch, 4 coffee breaks, dinner (February 21st, 2025 )

**Registration fee & accommodation include:** Course, educational material, lunch, 4 coffee breaks, 2 dinners (February, 20th and February 21st, 2025 ), accommodation ( two nights in double room at Hotel M Belgrade )

## Contact and Technical Organizer

### **Tourist agency Mondorama doo**

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[www.mondorama.rs](http://www.mondorama.rs)

[www.mondorama-kongresi.rs](http://www.mondorama-kongresi.rs)

Registration is done online via the website:

<https://msus2025.ures.org.rs/>

## SPEAKERS – INSTRUCTORS

1. **Prof. Predrag Ostojić** – MD, PhD, Professor of Internal Medicine and Rheumatology at School of Medicine, University of Belgrade, Director of Institute of Rheumatology, Belgrade, Serbia.
2. **Prof. Annamaria Iagnocco** - MD, PhD, Professor of Rheumatology, Department of Clinical and Biological Sciences, University of Turin, Torino, Italy
3. **Prof. Nemanja Damjanov** - MD, PhD, Full Professor of Internal Medicine, Rheumatology, Belgrade University School of Medicine, Serbia.
4. **Giasna Giokis** - MD, Consultant Rheumatologist, Scientific Associate of Hippocraton Hospital of Thessaloniki, 4th Department of Pathology, Private Practice Katerini, Greece.
5. **Assoc. prof. Peter Mandl** – MD, PhD, Division of Rheumatology, Medical University of Vienna, Austria.
6. **Prof. Peter Balint** – MD, PhD, FRCP (Glasgow), President of the Hungarian Association of Rheumatologists, Musculoskeletal Radiology Group, Medical Imaging Clinic, Semmelweis University, Head of Department, Consultant Rheumatologist, 3rd Rheumatology Department, National Institute of Musculoskeletal Diseases, Budapest, Hungary.
7. **Violeta Vlad** – MD, PhD, Centre of Rheumatology St. Maria, University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania.
8. **Mihaela Micu** – MD, Rehabilitation Clinical Hospital Cluj Napoca, Romania.
9. **Slavica Prodanović** – MD, PhD, Internal Medicine Specialist-rheumatologist at Euromedik Hospital, Belgrade, Serbia
10. **Ass. Branko Barać** – MD, PhD, internal medicine specialist – rheumatologist at Institute of Rheumatology, Belgrade, Serbia
11. **Primarius Vlado Skakić** - MD, internal medicine specialist – rheumatologist, Nis, Serbia.
12. **Milica Basarić** – MD, Specialist in physical medicine and rehabilitation – physiatrist and rheumatologist at Institute of Rheumatology, Belgrade, Serbia
13. **Ass. Milica Grujić** – MD, PhD, Internal Medicine Specialist - rheumatologist at Institute of Rheumatology, Belgrade, Serbia

## CONGRESS SECRETARIAT OPENING HOURS

Thursday, February 20 <sup>th</sup> , 2025	<b>12:00 – 19:10</b>
Friday, February 21 <sup>st</sup> , 2025	<b>08:30 – 20:00</b>
Saturday, February 22 <sup>nd</sup> , 2025	<b>09:00 – 14:00</b>

## CERTIFICATE OF ATTENDANCE

Participants can receive their certificate of attendance during the closing session on the 22<sup>nd</sup> February 2025.

To receive the certificate of attendance it is mandatory to complete and submit the evaluation form, at the Course Secretariat, before the closing session.

## OBJECTIVES

- To learn technical characteristics and setting of ultrasound equipment for rheumatology
- To learn basic normal musculoskeletal ultrasonographic anatomy (MSUS).
- To learn basic pathological MSUS findings
- To learn the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines
- Applications, indications and limitations of MSUS in rheumatology
- Image documentation
- Basics of Colour and Power Doppler application to detect synovial and enthesis inflammation

## MAIN TOPICS

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

## WORKSHOP

- 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

## SCIENTIFIC PROGRAMME:

*Thursday, February 20<sup>th</sup>, 2025.*

Time	Programme
10:00 – 12:00	<b>Registration</b>
12:00 – 12:15	<b>Introduction</b> <i>P. Ostojic, A. Iagnocco</i>
12:15 – 13:00	<b>Entry test</b> <i>N. Damjanov</i>
	<b><u>Chair: N. Damjanov, P. Ostojic</u></b>
13:00 – 13:30	<b>Ultrasound in rheumatology: why?</b> <i>N. Damjanov</i>
13:30 – 14:00	<b>Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology.</b> <i>P. Balint</i>
14:00 – 14:45	<b>Ultrasound pathologies and elementary lesions in RMDs.</b> <i>A. Iagnocco</i>
14:45 – 15:15	<b>Which Ultrasound equipment to use for RMDs</b> <i>B. Barac</i>
15:15 – 15:45	<b>Coffee break</b>
15:45 – 17:00	<b>Workshop: How to use and optimize the setting of the Ultrasound Equipment.</b> <i>Faculty and tutors: A. Iagnocco, P. Balint, B. Barac, V. Skakić, S. Prodanović, M. Grujić</i>
	<b><u>Chair: M. Micu, P. Ostojic</u></b>
17:00 – 17:40	<b>Ultrasound of the hip. Normal findings and basic Ultrasound pathology.</b> <i>Lecture: M. Micu (20') and live demo N. Damjanov (15' - 2 screens)</i>
17:40 – 19:10	<b>Workshop: How to perform an Ultrasound examination of the hip (healthy subjects and patients with hip pathology).</b> <i>Faculty and tutors: N. Damjanov, M. Micu, V. Vlad, G. Giokis, B. Barac, M. Basarić</i>



**Friday, February 21<sup>st</sup>, 2025.**

**Chair: V. Vlad, G. Giokis**

08:30 – 09:05 **Ultrasound of the knee. Normal findings and basic Ultrasound pathology.**  
*Lecture: V. Vlad (20') and live demo G. Giokis (15' - 2 screens).*

09:05 – 10:30 **Workshop: How to perform an Ultrasound examination of the knee (healthy subjects and patients with hip pathology).**  
*Faculty and tutors: V. Vlad, G. Giokis, N. Damjanov, M. Micu, V. Skakić, M. Basarić*

10:30 – 10:50 **Coffee break**

**Chair: P. Mandl, S. Prodanović**

10:50 – 11:25 **Ultrasound of the ankle and foot. Normal findings and basic Ultrasound pathology.**  
*Lecture: P. Mandl (20') and live demo S. Prodanovic (15' - 2 screens).*

11:25 – 12:45 **Workshop How to perform an Ultrasound examination of the ankle and foot healthy subjects and patients with hip pathology).**  
*Faculty and tutors: P. Mandl, S. Prodanović, A. Iagnocco, P. Balint, B. Baračić, M. Grujić*

12:45 – 13:45 **Lunch**

**Chair: P. Ostojic, V. Vlad**

13:45 – 14:20 **Ultrasound of the shoulder. Normal findings and basic Ultrasound pathology.**  
*Lecture: G. Giokis (20') and live demo V. Vlad (15' - 2 screens).*

14:20 – 15:50 **Workshop: How to perform an Ultrasound examination of the shoulder (healthy subjects and patients with hip pathology).**  
*Faculty and tutors G. Giokis, V. Vlad, P. Mandl, M. Basarić, B. Baračić, M. Grujić)*

**Chair: M. Micu, M. Basaric**

15:50 – 16:25 **Ultrasound of the elbow. Normal findings and basic Ultrasound pathology.**  
*Lecture: N. Damjanov (20') and live demo M. Micu (15' - 2 screens).*

16:25 – 16:50 **Coffee break**



- 16:50 – 18:00      **Workshop: How to perform an Ultrasound examination of the elbow (healthy subjects and patients with elbow pathology).**  
*Faculty and tutors: N. Damjanov, M. Micu, P. Mandl, S. Prodanović, A. Iagnocco, M. Grujić*
- Chair: A. Iagnocco V. Skakic**
- 18:00 – 18:35      **Ultrasound of the hand and wrist. Normal findings and basic Ultrasound pathology.**  
 Lecture A. Iagnocco (20') and live demo P. Balint (15' - 2 screens)
- 18:35 – 20:00      **Workshop: How to perform an Ultrasound examination of the hand and wrist (healthy subjects and patients with hand and wrist pathology).**  
*Faculty and tutors: A. Iagnocco, P. Balint, G. Giokis, V. Vlad, P. Mandl, V. Skakić*
- 20:30                **Dinner**

**Saturday, February 22<sup>nd</sup>, 2025.**

**Chair: P. Balint, V. Skakic**

- 09:00 – 09:30      **Basic sonographic-guided procedures.**  
*N. Damjanov*
- 09:30 – 09:50      **B Mode Artifacts in Musculoskeletal Ultrasound.**  
*V. Skakic*
- 09:50 – 10:05      **Ultrasound report**  
*S. Prodanovic*
- 10:05 – 10:30      **Coffee break**
- Chair: P. Balint, V. Skakic**
- 10:30 – 11:30      **Interactive discussion on normal and pathological Ultrasound images**  
*N. Damjanov, A. Iagnocco*
- 11:30 – 13:00      **Workshop: Supervised hands-on-scanning of patients with different rheumatic diseases.**  
*Faculty and tutors: N. Damjanov, A. Iagnocco, P. Balint, V. Skakic, S. Prodanovic, M. Micu*
- 13:00 – 13:45      **Exit test**
- 13:45 – 14:00      **Closing remarks**  
*P. Ostojic, A. Iagnocco*