



General information and Course programme of the

1<sup>st</sup> MUSCULOSKELETAL SONOGRAPHY COURSE  
FOR RHEUMATOLOGISTS - BASIC -  
Zagreb, January 19<sup>th</sup> - 21<sup>st</sup>, 2012

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## ORGANIZATION AND COMMITTEE

**Scientific Organizer**  
Prof. Annamaria Iagnocco

**Local Organizer**  
Porin Perić, MD, PHD,

**Local Co-organizer**  
Nadica Laktašić- Žerjavić, MD, PHD

**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:

Peter Balint, Hungary  
Marco Matucci Cerinic, Italy  
Nemanja Damjanov, Serbia  
Miroslav Harjaček, Croatia  
Annamaria Iagnocco, Italy  
Nadica Laktašić-Žerjavić, Croatia  
Esperanza Naredo, Spain  
Francesco Porta, Italy  
Porin Perić, Croatia  
Goran Radunović, Serbia

### Instructors

Mislav Cerovec, Croatia  
Darija Granec, Croatia  
Kristina Kovač, Croatia  
Nadica Laktašić-Žerjavić, Croatia  
Miroslav Mayer, Croatia  
Esperanza Naredo, Spain  
Tomislav Nemčić, Croatia  
Francesco Porta, Italy  
Porin Perić, Croatia  
Goran Radunović, Serbia

## GENERAL INFORMATION

**Course opening**  
Thursday, January 19th, 2012 - h 12:00

**Course closing**  
Saturday, January 21st, 2012 - h 15:10

**Participants**  
The number of participants is limited to 30

**Official language**  
English

**Congress Venue**  
**Hotel Dubrovnik**, Gajeva 1, 10000 Zagreb, Croatia  
Phone: +385 1 4863 555, Fax: +385 1 4863 550

**Accommodation**  
**Atlantis Travel d.o.o.**, Petrinjska 59, 10000 Zagreb, Croatia  
Hotel accommodation can be booked through Agency Atlantis Travel. All information can be found on the Agency website and on e-mail: zagreb@atlantis-travel.hr / www.atlantis-travel.eu

**Scientific Organizer: Prof. Annamaria Iagnocco**  
Rheumatology Unit,  
Dipartimento di Medicina Interna e Specialità Mediche,  
Sapienza Università di Roma, Roma, Italy  
e-mail: annamaria.iagnocco@uniroma1.it

**Local Organizer: Porin Perić, MD, PHD**  
Department of Rheumatology,  
Clinical Hospital Center, Zagreb,  
Kišpatićeva 12, 10000 Zagreb, Croatia  
e-mail: porin.peric@gmail.com

**Organizing Secretariat Croatian Society for Rheumatology**  
Šubićeva 9, 10000 Zagreb, Croatia  
Phone: +385 1 2388-171, Fax: +385 1 2388-289  
e-mail: dnaglic@kbc-zagreb.hr, porin.peric@gmail.com  
www.reumatologija.org

### **Institutional**

#### **Organizer:**

Clinical Hospital  
Center Zagreb,  
Department of  
Rheumatology,  
University of Zagreb,  
Croatia.

### **Scientific**

#### **Indorsement:**

European League  
Against Rheumatism  
(EULAR)  
Croatian Society for  
Rheumatology

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**Musculoskeletal sonography course for rheumatologists, Zagreb 2012** is intended to be a combination of lectures and practical sessions. The course consists of theoretical talks and supervised hands-on scanning of healthy persons and/or patients with musculoskeletal disorders.

**Sponsorship:** ESAOTE, General Electric, Olympus, MSD, Abbott, Pfizer, Roche. ESAOTE, GE and Olympus will provide ultrasound equipment free of charge.

Sponsors will not have any influence on the course programme, scientific and other content, or speakers in any way.

The Course is in a proces of CME accreditation at the Croatian Ministry of Health.

Registration is intended to be opened for all EULAR member countries.

Formal evaluation of the course will be performed by all attendees at the end of each course day.

The number of participants is limited to 30.

This 3-day course fee will be **1000 EUR** per participant (lodging and food is included in the course price).

## OBJECTIVES

- To learn technical characteristics and setting of ultrasound equipments 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 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 the EULAR guidelines
- Basic pathological sonographic findings ( tendinosis, tenosynovitis, partial and complete tendon tear, entesopathy, 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 assesment of the basic somographic symptoms or inflammation severity in grades

## TIMETABLE

- Musculoskeletal Sonography Course for Rheumatologists, Basic Level, consists of 15,5 hours of activities within 3 days:
- 6 hrs 10 minutes ( 39% of total time) for lectures
- 9 hrs 20 minutes (61% of total time) for supervised hands-on scanning of models and/or patients with musculoskeletal disorders

## SCIENTIFIC PROGRAMME

**Thursday, January 19th, 2012.**

12:00-14:00 Registration

12:00-13:30 Lunch

14:00-14:15 Welcome **Đ. Babić-Naglić, P. Perić**

14:15-14:30 Entering test of knowledge

**Chairpersons: P. Balint, P. Perić**

14:30-15:00 History and basic physics of MSUS. **P. Perić**

15:00-15:20 Coffee break

15:10-16:00 Normal tissue and joint anatomy. US and correlative gross anatomy and histology. **P. Balint**

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16:00-16:25 Artifacts and misinterpretation in MSUS. **P. Balint**

16:25-16:50 Technical characteristics and setting of ultrasound equipments for rheumatology. **A. Iagnocco**

16:50-17:10 **Coffee break**

17:10-18:40 **Workshop:** Supervised practical handling of the ultrasound machine settings. Normal MSUS anatomy.

**Chairpersons:** **M. Matucci-Cerinic, P. Perić**

18:40-19:10 Reporting ultrasound findings and diagnosis.  
**M. Matucci-Cerinic**

19:10-20:00 **Workshop:** Supervised reporting of ultrasound findings and diagnosis.

20:30 **Dinner**

**Friday, January 20th, 2012.**

**Chairpersons:** **T. Nemčić, N. Damjanov**

09:00-09:40 Sonographic semiology (tendinosis, tenosynovitis, partial and complete tendon tear, entesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis).  
**N. Damjanov**

09:40-10:20 Entesitis and entesopathy. **P. Balint**

10:20-10:40 **Coffee break**

10:40-11:10 Standardized scanning of the hip: normal and basic pathologic findings. **G. Radunović**

11:10-12:30 **Workshop:** Supervised scanning technique of hip. Normal and basic pathological findings

12:30-13:00 Standardized scanning of the knee: normal and basic pathological findings **F. Porta**

13:00-14:20 **Workshop:** Supervised scanning technique of knee. Normal and basic pathological findings

14:20-15:30 **Lunch**

**Chairpersons:** **E. Naredo, P. Perić**

15:30-15:50 Standardized scanning of the shoulder: normal and basic pathological findings. **E. Naredo**

15:50-17:50 **Workshop:** Supervised scanning technique of shoulder. Normal and basic pathological findings

20:00 **Dinner**

**Saturday, January 21st, 2012.**

**Chairpersons:** **N. Laktašić-Žerjavić, P. Perić**

09:00-09:20 Standardized scanning of the wrist and hand: normal and basic pathological findings. **P. Perić**

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09:20-09:40	Standardized scanning of the elbow: normal and basic pathological findings. <b>N. Laktašić-Žerjavić</b>
09:40-10:00	Standardized scanning of the ankle and foot: normal and basic pathological findings. <b>G. Radunović</b>
10:00-10:30	Coffee break
10:30-11:00	Standardized scanning of sacroiliacal joints: normal and basic pathological findings. <b>M. Harjaček.</b>
11:00-13:20	<b>Workshop:</b> Supervised scanning technique of wrist, hand, elbow, ankle and feet. Normal and basic pathological findings
13:20-13:40	Coffee break
13:40-14:10	Test of knowledge
14:10-15:10	Lunch and certificate issuing

### Registration fees:

This 3-day course fee will be **1000 EUR** per participant (lodging and food is included in the course price). It is recommended to make reservation of accommodation directly to **Atlantis Travel** agency:  
mail: [zagreb@atlantis-travel.hr](mailto:zagreb@atlantis-travel.hr) tel. +385 1 4811155, fax +385 1 4818914  
Registration deadline: 20th December 2011.

### Registration fees include:

- Admission to all conference sessions
- Conference KIT
- Conference session materials
- Certificate of attendance and CME certificate
- Coffee breaks and lunches, as specified in the program

### Registration instructions:

To register for the Course you must fill in the form and send it, together with the payment of the registration fee to the Organizational Secretariat.  
No registrations will be made without payment of the registration fee.  
The Organizational Secretariat will inform the participant that he or she has been registered for the Course.

**You can find registration application on web site [www.atlantis-travel.eu](http://www.atlantis-travel.eu)!**

Methods of payment: The registration fee may be paid by bank transfer.

### BANK DETAILS:

Raiffeisen bank Austria dd  
Address: Petrinjska 59, Zagreb  
In favour of : Atlantis Travel d.o.o.  
IBAN: HR 4324840081500155209  
SWIFT CODE : RZBHHR2X  
Reference number : 11-15910-12

### BANK DETAILS (for payment in Kunas)

Atlantis travel d.o.o.  
Petrinjska 59, Zagreb,  
Account: 2484008-1100439430  
Reference number : 15910-12

**Amount should be net of bank commission !**

The copy of bank transfer must be sent together with the registration form to the Organizational Secretariat. No registration will be made without payment.

**Cancellations:** The Secretariat must be informed in writing of any cancellations. Eighty percent of the sum paid will be refunded for cancellations made before December, 20th 2011. No money will be refunded for cancellations made after that date. For more information, please visit the web sites:

[www.reumatologija.org](http://www.reumatologija.org)

[www.atlantis-travel.eu](http://www.atlantis-travel.eu)

[www.eular.org](http://www.eular.org)

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