General information and Course programme of the


This course has been scientifically endorsed by EULAR
Scientific Director
Prof. Annamaria Iagnocco

Executive director of the Course
Porin Perić, MD, PHD, Assistent Professor

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
- Nemanja Damjanov Serbia
- Annamaria Iagnocco Italy
- Nadica Laktašić-Žerjavić Croatia
- Mihaela Micu Romania
- Esperanza Naredo Spain
- Francesco Porta Italy
- Porin Perić Croatia
- Goran Radunović Serbia
- Violeta Vlad Romania

Instructors
- Mislav Cerovec Croatia
- Nemanja Damjanov Serbia
- Darija Granec Croatia
- Tatjana Kehler Croatia
- Nadica Laktašić-Žerjavić Croatia
- Miroslav Mayer Croatia
- Mihaela Micu Romania
- Tomislav Nemčić Croatia
- Francesco Porta Italy
- Porin Perić Croatia
- Goran Radunović Serbia
- Violeta Vlad Romania

Course opening
Thursday, May 29th, 2014
- 12:00 h

Course closing
Saturday, May 31st, 2014
- 15:00 h

Congress Venue
**Hotel Dubrovnik**, Gajeva 1, 10000 Zagreb, Croatia
www.hotel-dubrovnik.hr

Reservations
Phone: +385 1 48 111 55, Fax: +385 1 48 189 14
Email: zagreb@atlantis-travel.hr, www.atlantis-travel.eu

Participants
The number of participants is limited to 30

Official language
English

**Scientific Organizer:** Prof. Annamaria Iagnocco

**Executive director of the Course:** Porin Perić, MD, PHD, Assistant Professor - Department of Rheumatology, Clinical Hospital Center Zagreb, Klišpatičeva 12, 10000 Zagreb, Croatia, email: 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
email: dnglic@kbc-zagreb.hr, porin.peric@gmail.com
www.reumatologija.org
Musculoskeletal sonography course for rheumatologists, Zagreb 2014 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, Olympus, Philips, MSD, GE, AbbVie, Roche, Pfizer. ESAOTE, Olympus, Philips and GE 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 process 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 the Course.

Registration fee: 1000 EUR per person (three days course). Food and accommodation are included in the price.

The number of participants will be 30 people.
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 assessment of the basic somographic symptoms or inflammation severity in grades

TIMETABLE
- Musculoskeletal Sonography Course for Rheumatologists, Basic Level, consists of 20 hours of activities within 3 days (lectures: 30% of total time; practical training on models and/or patients with musculoskeletal disorders: 70%)

SCIENTIFIC PROGRAMME

Thursday, May 29th, 2014.

<table>
<thead>
<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>12:00-14:00</td>
<td>Registration</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Welcome  Đ. Babić-Naglić, P. Perić, A. Iagnocco</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>Entering test of knowledge</td>
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3rd MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS - BASIC LEVEL -

**Programme**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:30-15:00</td>
<td>History and basic physics of MSUS. V. Vlad</td>
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<tr>
<td>15:00-15:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:20-16:00</td>
<td>Normal tissue and joint anatomy. US and correlative gross anatomy and histology. P. Balint</td>
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<tr>
<td>16:00-16:25</td>
<td>Artifacts and misinterpretation in MSUS. P. Balint</td>
</tr>
<tr>
<td>16:25-16:50</td>
<td>Technical characteristics and setting of ultrasound equipments for rheumatology. A. Iagnocco</td>
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**Chairpersons:** P. Balint, P. Perić

<table>
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<tr>
<th>Time</th>
<th>Programme</th>
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<tbody>
<tr>
<td>16:50-17:10</td>
<td>Coffee break</td>
</tr>
<tr>
<td>18:40-19:10</td>
<td>Reporting ultrasound findings and diagnosis. F. Porta</td>
</tr>
<tr>
<td>19:10-20:30</td>
<td>Workshop: Supervised reporting of ultrasound findings and diagnosis.</td>
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<tr>
<td>20:30</td>
<td>Dinner</td>
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**Chairpersons:** F. Porta, P. Perić

**Technical characteristics and setting of ultrasound equipments for rheumatology. A. Iagnocco**
<table>
<thead>
<tr>
<th>TIME</th>
<th>PROGRAMME</th>
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<tbody>
<tr>
<td>09:00-09:40</td>
<td>Chairpersons: T. Kehler, N. Damjanov</td>
</tr>
<tr>
<td></td>
<td>Sonographic semiology (tendinitis, tenosynovitis, partial and complete tendon tear, entesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis). N. Damjanov</td>
</tr>
<tr>
<td>09:40-10:20</td>
<td>11:10-12:30 Workshop: Supervised scanning technique of hip. Normal and basic pathological findings</td>
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<tr>
<td>10:20-10:40</td>
<td>12:30-13:00 Standardized scanning of the knee: normal and basic pathological findings F. Porta</td>
</tr>
<tr>
<td>10:40-11:10</td>
<td>Chairpersons: E. Naredo, P. Perić</td>
</tr>
<tr>
<td></td>
<td>13:00-14:20 Workshop: Supervised scanning technique of knee. Normal and basic pathological findings</td>
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<tr>
<td></td>
<td>14:20-15:30 Lunch</td>
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<td>TIME</td>
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<tr>
<td>15:30-15:50</td>
<td>Standardized scanning of the shoulder: normal and basic pathological findings. <strong>E. Naredo</strong></td>
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<tr>
<td>15:50-18:00</td>
<td><strong>Workshop:</strong> Supervised scanning technique of the shoulder. Normal and basic pathological findings</td>
</tr>
<tr>
<td>20:00</td>
<td><strong>Dinner</strong></td>
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**Saturday, May 31st, 2014.**

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

<table>
<thead>
<tr>
<th>TIME</th>
<th>PROGRAMME</th>
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<tbody>
<tr>
<td>09:00-09:20</td>
<td>Standardized scanning of the wrist and hand: normal and basic pathological findings. <strong>P. Perić</strong></td>
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<tr>
<td>09:20-10:20</td>
<td><strong>Workshop:</strong> Supervised scanning technique of wrist and hand. Normal and basic pathological findings</td>
</tr>
<tr>
<td>10:20-10:40</td>
<td>Standardized scanning of the elbow: normal and basic pathological findings. <strong>N. Laktašić-Žerjavić</strong></td>
</tr>
<tr>
<td>10:40-12:00</td>
<td><strong>Workshop:</strong> Supervised scanning technique of elbow. Normal and basic pathological findings</td>
</tr>
<tr>
<td>12:00-12:20</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>12:20-12:40</td>
<td>Standardized scanning of the ankle and foot: normal and basic pathological findings. <strong>G. Radunović</strong></td>
</tr>
</tbody>
</table>
Workshop: Supervised scanning technique of ankle and foot. Normal and basic pathological findings.

Test of knowledge

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, email: zagreb@atlantis-travel.hr
Phone: +385 1 4811155, Fax: +385 1 4818914
Registration deadline: May 1st 2014.

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 programm

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
Methods of payment:
The registration fee may be paid by bank transfer. Kuna and foreign currency account of Atlantis Travel.

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: 11-56-2014

BANK DETAILS (for payment in Kunas)
Atlantis travel d.o.o.
Petrinjska 59, Zagreb,
Account: 2484008-1100439430
Reference number: 11-56-2014

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 May 1st 2014. No money will be refunded for cancellations made after that date.

For more information, please visit the web sites:

www.reumatologija.org
www.atlantis-travel.eu
www.eular.org
Authorized Distributor
GE Healthcare

SPONSORS
General information and Course programme of the
3\textsuperscript{rd} MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS - BASIC LEVEL -
Zagreb, May 29\textsuperscript{th} - May 31\textsuperscript{st}, 2014.

This course has been scientifically endorsed by \textit{EULAR}