MUSCULOSKELETAL
ULTRASOUND
in RHEUMATOLOGY
BASIC COURSE

This course is endorsed by

Rome, March 26-28, 2020
Course Chair
Annamaria Iagnocco
Musculoskeletal ultrasound in rheumatology is a rapidly evolving imaging tool which has registered an increasing and widespread use over the last decades. Currently it is utilized for assessing different rheumatic pathologies and evaluating various abnormalities both in degenerative and inflammatory diseases. Due to its limited cost, wide equipment availability and feasibility it is used as a bedside procedure in the clinical rheumatology practice. Nonetheless the presence of a high number of experts in the field, there are still many rheumatologists who are willing to learn the use and applications of musculoskeletal ultrasound in rheumatology, with an increasing demand of attending ultrasound courses. The Course in musculoskeletal ultrasound in rheumatology, which has the EULAR Scientific Endorsement, is an educational initiative which has the aim of assisting rheumatologists to learn ultrasound. The faculty of the Course in musculoskeletal ultrasound in rheumatology is represented by prestigious experts in the field and who are also faculty members of the EULAR Sonography Courses.

Prof. Annamaria Iagnocco
Course Chair

FACULTY
Annamaria Iagnocco, Torino - IT
Peter Vince Balint, Budapest - HU
Nemanja Damjanov, Belgrade - SR
Andrea Delle Sedie, Pisa - IT
Georgios Filippou, Ferrara - IT
Emilio Filippucci, Jesi (AN) - IT
Walter Grassi, Jesi (AN) - IT
Zunaid Karim, Wakefield - UK
Mihaela Cosmina Micu, Cluj-Napoca - RO
Sarah Ohrndorf, Berlin - DE

SUPERVISORS
Marco Canzoni, Roma - IT
Orazio De Lucia, Milano - IT
Luca Idolazzi, Verona - IT
Andrea Picchianti Diamanti, Roma - IT
Garifallia Sakellariou, Pavia - IT
Ilaria Tinazzi, Negrar (VR) - IT
Alen Zabotti, Udine - IT
### PROGRAMME

#### Thursday, March 26

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12.00 - 12.50</td>
<td>Registration</td>
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<tr>
<td>12.50 - 13.00</td>
<td><strong>Course Opening</strong>&lt;br&gt;A. Iagnocco, Torino - IT</td>
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<td><strong>Chair:</strong> A. Iagnocco, Torino - IT</td>
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<tr>
<td>13.00 - 13.30</td>
<td>Applications, indications and limitations of US in rheumatology&lt;br&gt;S. Ohrndorf, Berlin - DE</td>
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<td>13.30 - 14.00</td>
<td>Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology.&lt;br&gt;N. Damjanov, Belgrade - SR</td>
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<td>14.00 - 14.30</td>
<td>Sonographic semiology. Definitions for US pathologies and elementary lesions in RMDs.&lt;br&gt;A. Iagnocco, Torino - IT</td>
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<td>14.30 - 15.00</td>
<td>Technical characteristics and setting of US equipment in rheumatology. Holding the probe, equipment settings and optimization.&lt;br&gt;E. Filippucci, Jesi (AN) - IT</td>
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<tr>
<td>15.00 - 15.30</td>
<td>Hints on Doppler physics and techniques. Color or power Doppler?&lt;br&gt;Z. Karim, Wakefield - UK</td>
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<tr>
<td>15.30 - 16.00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>16.00 - 18.00</td>
<td>Workshop 1: Appropriate use of the US equipment. US settings and B-mode/Doppler optimization. Sonoanatomy and appropriate acquisition of the MSUS images in healthy individuals (joint space, joint recesses, joint capsule, cortical profile, hyaline cartilage, tendons, bursae, ligaments, muscles and nerves).&lt;br&gt;Faculty and Tutors</td>
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<td><strong>Chair:</strong> G. Filippou, Ferrara - IT</td>
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<tr>
<td>18.00 - 18.30</td>
<td><strong>US of the hip. Normal findings and basic US pathology.</strong>&lt;br&gt;Lecture: M.C. Micu, Cluj-Napoca - RO&lt;br&gt;Live demo: G. Filippou, Ferrara - IT</td>
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<tr>
<td>18.30 - 20.00</td>
<td>Workshop 2: Sonoanatomy and standard scans of the hip. How to perform an US examination in healthy subjects and obtain US images.&lt;br&gt;Faculty and Tutors</td>
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Friday, March 27

**Chair: S. Ohrndorf, Berlin - DE**

08.30 - 09.00  **US of the knee. Normal findings and basic US pathology.**
*Lecture:* E Filippucci, Jesi (AN) - IT
*Live demo:* A. Delle Sedie, Pisa - IT

09.00 - 10.30  **Workshop 3: Sonoanatomy and standard scans of the knee. How to perform an US examination in healthy subjects and obtain US images.**
*Faculty and Tutors*

10.30 - 10.45  **Coffee Break**

**Chair: P.V. Balint, Budapest - HU**

10.45 - 11.15  **US of the ankle and foot. Normal findings and basic US pathology.**
*Lecture:* A. Delle Sedie, Pisa - IT
*Live demo:* P.V. Balint, Budapest - HU

*Faculty and Tutors*

12.45 - 13.45  **Lunch**

**Chair: A. Delle Sedie, Pisa - IT**

13.45 - 14.15  **US of the shoulder. Normal findings and basic US pathology.**
*Lecture:* P.V. Balint, Budapest - HU
*Live demo:* Z. Karim, Wakefield - UK

*Faculty and Tutors*

**Chair: N. Damjanov, Belgrade - SR**

15.45 - 16.15  **US of the elbow. Normal findings and basic US pathology.**
*Lecture:* S. Ohrndorf, Berlin - DE
*Live demo:* N. Damjanov, Belgrade - SR

16.15 - 16.30  **Coffee Break**

16.30 - 17.30  **Workshop 6: Sonoanatomy and standard scans of the elbow. How to perform an US examination in healthy subjects and obtain US images.**
*Faculty and Tutors*

**Chair: M.C. Micu, Cluj-Napoca - RO**

17.30 - 18.00  **US of the hand and wrist. Normal findings and basic US pathology.**
*Lecture:* E. Filippucci, Jesi (AN) - IT
*Live demo:* M.C. Micu, Cluj-Napoca - RO

18.00 - 19.30  **Workshop 7: Sonoanatomy and standard scans of the hand and wrist. How to perform an US examination in healthy subjects and obtain US images.**
*Faculty and Tutors*
### Saturday, March 28

**Chair: E. Filippucci, Jesi (AN) - IT**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08.30 - 09.00</td>
<td><strong>Basic skills in sonographic-guided procedures</strong></td>
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<td>N. Damjanov, Belgrade - SR</td>
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<tr>
<td>09.00 - 09.20</td>
<td><strong>Artifacts, pitfalls and misinterpretations in MSUS</strong></td>
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<td>Z. Karim, Wakefield - UK</td>
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<td>09.20 - 09.45</td>
<td><strong>Reporting ultrasound findings and diagnosis. Image documentation</strong></td>
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<td>G. Filippou, Ferrara - IT</td>
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<tr>
<td>09.45 - 10.15</td>
<td><strong>Coffee Break</strong></td>
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**Chair: A. Iagnocco, Torino - IT**

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<tr>
<td>10.15 - 10.45</td>
<td><strong>US findings vs Clinical findings: Who is the winner?</strong></td>
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<td>S. Ohrndorf, Berlin - DE</td>
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<td>10.45 - 11.15</td>
<td><strong>US in RMDs</strong></td>
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<td>W. Grassi, Jesi (AN) - IT</td>
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<td>11.15 - 13.15</td>
<td><strong>Workshop 8: Supervised hand-on-scanning of patients with different rheumatic diseases</strong></td>
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<td>Faculty and Tutors</td>
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<tr>
<td>13.15 - 13.30</td>
<td><strong>Closing remarks</strong></td>
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<td>A. Iagnocco, Torino - IT</td>
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**Scientific Chair**
Prof. Annamaria Iagnocco  
Professor of Rheumatology  
Università degli Studi di Torino  
Turin, Italy  
EULAR President Elect

*Local organizer:* Dr. Marco Canzoni

Registration will be open to all EULAR Member Countries and worldwide. Participants will give their formal evaluation of the course. The sponsors will not have any influence on the programme, its content or speakers.

**Accreditation**
An application has been made to the EACCME® for CME accreditation of this event.

**Objectives**
- to learn the indications and limits of musculoskeletal (MS) ultrasound (US) in rheumatology  
- to learn sonoanatomy and identify different musculoskeletal structures in healthy subjects by US  
- to learn standard scans in different anatomic areas according to EULAR guidelines  
- to learn ultrasound-detectable abnormalities in rheumatology

**Main topics**
Applications, indications and limits of MSUS in rheumatology; US physics and technology; US patterns of MS structures; MSUS artifacts; appropriate use and positioning of the probe; US settings and B-mode/Doppler optimization; standard scans of the shoulder, elbow, wrist, hand, hip, knee, ankle and foot; basic US pathology (tendinosis, tenosynovitis, tendon lesions, enthesopathy, enthesitis, bursitis, cortical abnormalities, calcifications, cartilage abnormalities, joint effusion, synovial hypertrophy, synovitis); interpretation of US images; US report and documentation; US diagnosis; basic skills in US-guided procedures.

**Workshops** (small groups, with supervisor)
- US Setting  
- Sonoanatomy standard scans of the shoulder, elbow, wrist, hand, hip, knee, ankle and foot in healthy subjects  
- Training in elementary US basic lesions  
- US Sessions in patients with rheumatic diseases
**Course Venue**
Hotel Massimo D’Azeglio  
Via Cavour, 18  
00184 Rome, Italy

**Registration Desk**
The Organizing Secretariat will be available on-site from March 26 to March 28, as follows:  
Thursday, March 26  12.00 - 20.30 hrs  
Friday, March 27  08.00 - 20.00 hrs  
Saturday, March 28  08.00 - 14.00 hrs

**Language**
The official language of the Course will be English. Simultaneous translation will not be provided.

**Course badges**
A badge will be provided on-site together with the Course kit. Participants are kindly requested to always wear their name badge during the Course.

**Registration fees**
- REGISTRATION FEE: €850,00  
- FULL REGISTRATION FEE: €1,100,00

The registration fee includes:  
participation in the scientific sessions, course kit, certificate of attendance, lunch, coffee breaks

The full registration fee includes:  
participation in the scientific sessions, course kit, certificate of attendance, lunch, coffee breaks, social dinner and 2 nights accommodation
HOW TO REGISTER
On the website https://web.aimgroupinternational.com/2020/mskrome is available an “on line” registration form with payment by credit card in security certificate mode “Verisign” and “SSB”. An invoice will be issued as written confirmation of your registration by the Organizing Secretariat.

PAYMENTS
All major credit cards are accepted (American Express, VISA, Eurocard/Master Card).

Bank Transfer
Please transfer the payment to: AIM Italy srl
Bank details: Intesa San Paolo - Filiale di Viale Conizugna 62 - Milano
IBAN: IT57D03069094571000000005623
swift/BIC: BCITITMM
The payment transfer form should clearly state the name(s) of the delegate(s) and should clearly state Rome Musculoskeletal

Organizing Secretariat

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