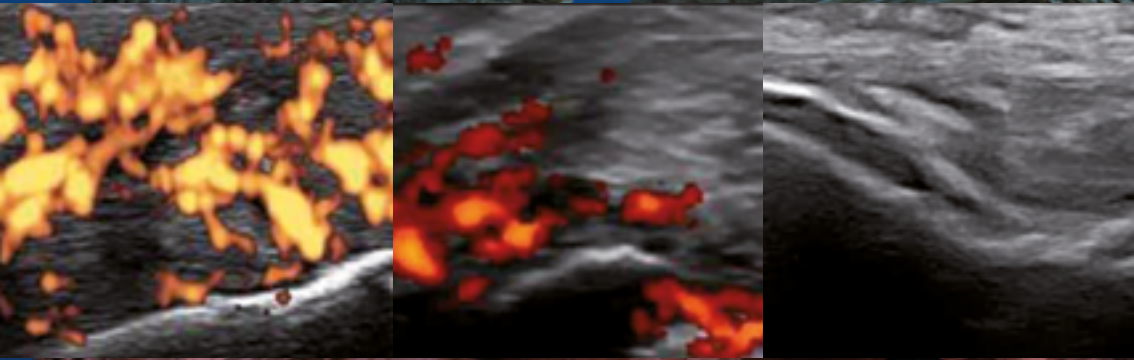


# MUSCULOSKELETAL ULTRASOUND in RHEUMATOLOGY BASIC COURSE



*This course is endorsed by*

**eular**

EUROPEAN ALLIANCE  
OF ASSOCIATIONS  
FOR RHEUMATOLOGY

Rome, 14-16 december 2023

Course Chair

Annamaria Iagnocco

# COURSE PRESENTATION

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**, Turin - IT  
**Maria Antonietta D'Agostino**, Rome - IT  
**Nemanja Damjanov**, Belgrade - SR  
**Christian Dejaco**, Bruneck (BZ) - IT  
**Andrea Delle Sedie**, Pisa - IT  
**Christina Duftner**, Innsbruck - AT  
**Emilio Filippucci**, Jesi (AN) - IT  
**Dana Fodor**, Cluj-Napoca - RO  
**Giasna Giokits Kakavouli**, Katerini - GR  
**Mihaela Cosmina Micu**, Cluj-Napoca - RO  
**Porin Perić**, Zagreb - HR

## SUPERVISORS

**Marco Canzoni**, Rome - IT  
**Mirco Magnani**, Bologna - IT  
**Luca Navarini**, Rome - IT  
**Carlo Perricone**, Perugia - IT  
**Garifallia Sakellariou**, Pavia - IT

# PROGRAMME

## Thursday, December 14

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12.00 - 12.50

Registration

12.50 - 13.00

### **Course Opening**

A. Iagnocco, Torino - IT

### **Chair: A. Iagnocco, Torino - IT**

13.00 - 13.30

### **Applications, indications and limitations of US in rheumatology**

D. Fodor, Cluj-Napoca - RO

13.30 - 14.00

### **Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology**

N. Damjanov, Belgrade - SR

14.00 - 14.30

### **Sonographic semiology. Definitions for US pathologies and elementary lesions in RMDs**

A. Iagnocco, Torino - IT

14.30 - 15.00

### **Technical characteristics and setting of US equipment in rheumatology. Holding the probe, equipment settings and optimization**

E. Filippucci, Jesi (AN) - IT

15.00 - 15.30

### **Hints on Doppler physics and techniques. Color or power Doppler?**

A. Delle Sedie, Pisa - IT

15.30 - 16.00

*Coffee Break*

16.00 - 18.00

### **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)**

Faculty and Supervisors

### **Chair: C. Duftner, Innsbruck - AT**

18.00 - 18.30

### **US of the hip. Normal findings and basic US pathology**

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

**Live demo:** G. Giokits Kakavouli, Katerini - GR

18.30 - 19.30

### **Workshop 2: Sonoanatomy and standard scans of the hip. How to perform an US examination in healthy subjects and obtain US images.**

Faculty and Supervisors

# PROGRAMME

## Friday, December 15

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**Chair: G. Giokits Kakavouli, Katerini - GR**

08.30 - 09.00

**US of the knee. Normal findings and basic US pathology**

**Lecture:** D. Fodor, Cluj-Napoca - RO

**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 Supervisors

10.30 - 10.45

*Coffee Break*

**Chair: C. Dejaco, Bruneck (BZ) - IT**

10.45 - 11.15

**US of the ankle and foot. Normal findings and basic US pathology**

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

**Live demo:** C. Dejaco, Bruneck (BZ) - IT

11.15 - 12.45

**Workshop 4: Sonoanatomy and standard scans of the ankle and foot. How to perform an US examination in healthy subjects and obtain US images**

Faculty and Supervisors

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:** C. Duftner, Innsbruck - AT

**Live demo:** D. Fodor, Cluj-Napoca - RO

14.15 - 15.45

**Workshop 5: Sonoanatomy and standard scans of the shoulder. How to perform an US examination in healthy subjects and obtain US images**

Faculty and Supervisors

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

15.45 - 16.15

**US of the elbow. Normal findings and basic US pathology**

**Lecture:** G. Giokits Kakavouli, Katerini - GR

**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 Supervisors

**Chair: M.A. D'Agostino, Rome - IT**

17.30 - 18.00

**US of the hand and wrist. Normal findings and basic US pathology**

**Lecture:** M.A. D'Agostino, Rome - 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 Supervisors

# PROGRAMME

## Saturday, December 16

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### Chair: E. Filippucci, Jesi (AN) – IT

- 08.30 - 09.00            **Basic skills in sonographic-guided procedures**  
N. Damjanov, Belgrade - SR
- 09.00 - 09.20            **Artifacts, pitfalls and misinterpretations in MSUS**  
P. Perić, Zagreb - HR
- 09.20 - 09.45            **Reporting ultrasound findings and diagnosis**  
**Image documentation**  
M.A. D'Agostino, Rome - IT
- 09.45 - 10.15            *Coffee Break*

### Chair: A. Iagnocco, Torino – IT

- 10.15 - 10.45            **US findings vs Clinical findings: Who is the winner?**  
C. Duftner, Innsbruck - AT
- 10.45 - 11.15            **US in RMDs**  
E. Filippucci, Jesi (AN) - IT
- 11.15 - 13.15            **Workshop 8: Supervised hand-on-scanning of patients**  
**with different rheumatic diseases**  
Faculty and Supervisors
- 13.15 - 13.30            **Closing remarks**  
A. Iagnocco, Torino - IT

# GENERAL INFORMATION

## Scientific Chair

Prof. Annamaria Iagnocco  
Professor of Rheumatology  
Università degli Studi di Torino  
Turin, Italy  
EULAR President

*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.

## 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 and pitfalls; 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 in patients with RMDs

# GENERAL INFORMATION

## ORGANIZING SECRETARIAT



### AIM Group International | Milan Office

Via G. Ripamonti, 129

20141 Milan, Italy

Tel. +39 02 566011

[mskrome@aimgroup.eu](mailto:mskrome@aimgroup.eu)

## COURSE VENUE

Hotel Massimo D'Azeglio

Via Cavour, 18

00184 Rome, Italy

## REGISTRATION DESK

The Organizing Secretariat will be available onsite as follows:

Thursday, December 14 12.00 - 20.00

Friday, December 15 08.00 - 19.30

Saturday, December 16 08.00 - 13.30

## 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/2023/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.

# GENERAL INFORMATION

## 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: IT57D0306909457100000005623

swift/BIC: BCITITMM

The payment transfer form should clearly state the name(s) of the delegate(s) and should clearly state Rome Musculoskeletal.

## CANCELLATION POLICY

Notification of cancellation must be sent in writing to [mskrome@aimgroup.eu](mailto:mskrome@aimgroup.eu).

Cancellations of registration will be accepted until the 7th of November 2023, subject to an administrative charge of 30% of the registration fee.

No refund on cancellations sent after 7th of November 2023.

## UNEXPECTED CANCELLATION OF THE EVENT OR IMPOSSIBILITY TO HOLD IT

In the unlikely case that the "Musculoskeletal Ultrasound in Rheumatology Basic Course" cannot be held in whole or in part due to any event beyond the Organisers' control or force majeure (such as riot, fire, explosion, accident, flood, earthquake, sabotage, strikes, acts of law or regulation by Italian or foreign Authorities, epidemic outbreak, sanitary emergency, etc) the Congress Organisers cannot be held liable for any damage, cost, or loss incurred, such as registration fee, transportation and accommodation costs, or any other direct or indirect loss or consequential damage.



