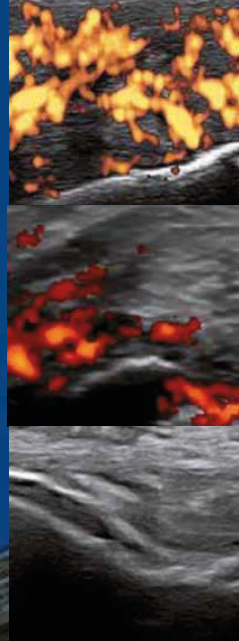


# MUSCULOSKELETAL ULTRASOUND in RHEUMATOLOGY



**BASIC COURSE**

**INTERMEDIATE COURSE**

**Rome, 3-5 December 2026**

**Course Chair: Annamaria Iagnocco**

These courses have been scientifically endorsed by





## FACULTY OF THE COURSES

### FACULTY

**Annamaria Iagnocco**, Turin - IT  
**Ahmed Abogamal**, Cairo - EG  
**Maria Antonietta D'Agostino**, Rome - IT  
**Nemanja Damjanov**, Belgrade - SRB  
**Orazio De Lucia**, Milan - IT  
**Andrea Delle Sedie**, Pisa - IT  
**João Dias**, Torres Novas - PT  
**Emilio Filippucci**, Jesi (AN) - IT  
**Giasna Giokits**, Katerini - GR  
**Peter Mandl**, Wien - AT  
**Mihaela Cosmina Micu**, Cluj-Napoca - RO  
**Chiara Rizzo**, Barcellona - ES  
**Violeta Vlad**, Bucharest - RO

### SUPERVISORS

**Marco Canzoni**, Rome - IT  
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**Garifallia Sakellariou**, Pavia - IT  
**Andrea Zoli**, Rome -IT

### SCIENTIFIC COMMITTEE

*Course Chair* - **Annamaria Iagnocco**  
*Scientific Committee* - **Marco Canzoni**





# BASIC COURSE PRESENTATION

## 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.

## SCIENTIFIC CHAIR

Prof. Annamaria Iagnocco

Professor of Rheumatology Università degli Studi di Torino - Turin, Italy

*Local organizer: Dr. Marco Canzoni*

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 limitations of musculoskeletal ultrasound (MSUS) in rheumatology
- to learn sonoanatomy and identify different musculoskeletal structures in healthy subjects by Ultrasound
- to learn standard scans in different anatomic areas according to EULAR guidelines
- to learn ultrasound-detectable abnormalities in rheumatology

## MAIN TOPICS

Applications, indications and limitations of MSUS in rheumatology; Ultrasound physics and technology; Ultrasound patterns of musculoskeletal structures; MSUS artifacts and pitfalls; appropriate use and positioning of the probe; Ultrasound settings and B-mode/Doppler optimization; standard scans of the shoulder, elbow, wrist, hand, hip, knee, ankle and foot; basic Ultrasound pathology; interpretation of Ultrasound images; Ultrasound report and documentation; Ultrasound diagnosis; basic skills in Ultrasound-guided procedures.



# BASIC COURSE PRESENTATION

**Workshops** (small groups, with supervisor)

- Ultrasound 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.

## CME PROVIDER



### AIM Education

Viale E. Forlanini, 23 - 20134 Milan, Italy

Tel. +39 02 566011 - [cme@aimgroup.eu](mailto:cme@aimgroup.eu) - [www.aimeducation.it](http://www.aimeducation.it)

## UEMS/EACCME ACCREDITATION



An application will be submitted to the EACCME® for CME accreditation of this event

# BASIC COURSE PROGRAMME

December 3<sup>rd</sup>, 2026

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12.00 - 12.45 **Registration**

12.45 - 12.50 **Introduction**

A. Iagnocco, Turin - IT

12.50 - 13.00 **EULAR Competency assessment in MSUS**

A. Iagnocco, Turin - IT

*Chair: A. Iagnocco, Turin - IT*

13.00 - 13.30 **Ultrasound in rheumatology: applications, indications and limitations**

N. Damjanov, Belgrade - SRB

13.30 - 13.55 **Ultrasound physics and technology. Ultrasound equipment for RMDs**

E. Filippucci, Jesi (AN) - IT

13.55 - 14.25 **Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology**

N. Damjanov, Belgrade - SRB

14.25 - 15.00 **Ultrasound pathologies and elementary lesions in RMDs**

A. Iagnocco, Turin - IT

15.00 - 15.20 **How to hold the probe, optimize the B-mode settings and acquire ultrasound images**

J. Dias, Torres Novas - PT

15.20 - 15.45 **Artifacts in Musculoskeletal Ultrasound**

G. Gioktis, Katerini - GR

15.45 - 16.15 Coffee break

16.15 - 17.45 **Workshop - How to use the Ultrasound equipment and optimize its setting**

Faculty and tutors



## BASIC COURSE PROGRAMME

*Chair: A. Abogamal, Cairo - EG*

- 17.45 - 18.15 **Ultrasound of the hip. Normal findings and basic Ultrasound pathology**  
**Lecture** - P. Mandl, Wien - AT  
**Live demo** - G. Gioktis, Katerini - GR
- 18.15 - 19.30 ***Workshop* - Sonoanatomy and stanrdard scans of the hip. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**  
Faculty and tutors

# BASIC COURSE PROGRAMME

December 4<sup>th</sup>, 2026

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*Chair: G. Gioktis, Katerini - GR*

08.30 - 09.00 **US of the knee. Normal findings and basic Ultrasound pathology**

**Lecture:** O. De Lucia, Milan - IT

**Live demo:** A. Abogamal, Cairo - EG

9.00 - 10.30 **Workshop - Sonoanatomy and standard scans of the knee. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**

Faculty and tutors

10.30 - 10.45 Coffee break

*Chair: J. Dias, Torres Novas - PT*

10.45 - 11.15 **Ultrasound of the ankle and foot. Normal findings and basic Ultrasound pathology**

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

**Live demo:** J. Dias, Torres Novas - PT

11.15 - 12.45 **Workshop - Sonoanatomy and standard scans of the ankle and foot. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**

Faculty and tutors

*Chair: C. Rizzo, Barcellona - ES*

12.45 - 13.15 **US of the shoulder. Normal findings and basic Ultrasound pathology**

**Lecture:** A. Abogamal, Cairo - EG

**Live demo:** C. Rizzo, Barcellona - ES

13.15 - 14.15 Lunch

14.15 - 15.45 **Workshop - Sonoanatomy and standard scans of the shoulder. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**

Faculty and tutors



## BASIC COURSE PROGRAMME

*Chair: V. Vlad, Bucharest - RO*

15.45 - 16.15 **Ultrasound of the elbow. Normal findings and basic Ultrasound pathology**

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

**Live demo:** V. Vlad, Bucharest - RO

16.15 - 16.30 Coffee break

16.30 - 17.30 **Workshop - Sonoanatomy and standard scans of the elbow. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**

Faculty and tutors

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

17.30 - 18.00 **US of the hand and wrist. Normal findings and basic Ultrasound pathology**

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

**Live demo:** A. Abogamal, Cairo - EG

18.00 - 19.30 **Workshop - Sonoanatomy and standard scans of the hand and wrist. How to perform an Ultrasound examination in healthy subjects and obtain Ultrasound images**

Faculty and tutors



# BASIC COURSE PROGRAMME

December 5<sup>th</sup>, 2026

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

08.30 - 09.00 **Ultrasound in arthritis (RA, SpA): why and when?**

E. Filippucci, Jesi (AN) - IT

09.00 - 09.25 **Ultrasound in osteoarthritis and crystal-related arthritis (Gout, CPPD): why and when?**

E. Filippucci, Jesi (AN) - IT

09.25 - 09.45 **Ultrasound in musculoskeletal soft tissue pathology: why and when?**

A. Delle Sedie, Pisa - IT

09.45 - 10.00 **Ultrasound report**

C. Rizzo, Barcellona - ES

10.00 - 10.15 **Basic skills in sonographic-guided procedures**

N. Damjanov, Belgrade - SRB

10.15 - 10.45 Coffee break

*Chair: A Iagnocco, Turin - IT*

10.45 - 11.15 **Interactive discussion on normal and pathological Ultrasound images**

J. Dias, Torres Novas - PT

11.15 - 13.15 **Workshop - Supervised hands-on-scanning of patients with different rheumatic diseases**

Faculty and tutors

13.15 - 13.30 **Closing remarks**

A. Iagnocco, Turin - IT

# INTERMEDIATE COURSE PRESENTATION

## COURSE PRESENTATION

The Intermediate Course will focus on a wide spectrum of rheumatic and musculoskeletal pathologies.

It is designed for participants with previous performance of a minimum of 10 standardised MSUS examinations of each joint region (i.e., shoulder, elbow, wrist & hand, hip, knee, ankle & foot).

Since this course is one of the criteria for EULAR Competency Assessment in MSUS in Rheumatology

- Level 1, **if you are interested in obtaining the EULAR certificate at the end of the intermediate course to confirm that you are following an EULAR training path**, you will need to have attended one of the following courses:

- criterion 1, EULAR Online Introductory Ultrasound Course
- criterion 2, Basic EULAR MSUS Course
- criterion 3, Intermediate EULAR MSUS course
- criterion 4, Advanced EULAR MSUS course

(or other equivalent level of Basic/Intermediate MSUS courses by other national societies / EULAR scientifically endorsed MSUS Courses)

For more details, please follow this link: <https://esor.eular.org/course/view.php?id=94>

**Please note that if you are not interested in obtaining the Intermediate Certificate for your EULAR training Course, you are not required to have previously attended one of these courses.**

## CHAIR

Prof. Annamaria Iagnocco

Professor of Rheumatology Università degli Studi di Torino-Turin, Italy

*Local organizer: Dr. Marco Canzoni*

Participants will give their formal evaluation of the course.

The sponsors will not have any influence on the programme, its content or speakers.

## LEARNING OBJECTIVES

Learning objectives

- To know the Doppler physics, technology, settings and artefacts.
- To know the application, indications and limitations of Doppler in rheumatology.
- To identify the spectrum of rheumatic and musculoskeletal abnormalities in each anatomic area (e.g. joint synovitis, tenosynovitis, enthesopathy, tendinosis, paratenonitis, tendon sub/luxation, tendon impingement, tendon tears, bone erosions, osteophytes, ganglia and cysts, articular cartilage lesions, peri- and intra-articular microcrystal deposit, soft tissue calcifications).
- To detect and quantify synovial, tenosynovial, and enthesal inflammation.

# INTERMEDIATE COURSE PRESENTATION

- To detect and quantify structural joint damage (i.e. bone, tendons, cartilage).
- To perform sonographic-guided periarticular and intra-articular injections.

## CME PROVIDER



### AIM Education

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Tel. +39 02 566011 - [cme@aimgroup.eu](mailto:cme@aimgroup.eu) - [www.aimeducation.it](http://www.aimeducation.it)

## UEMS/EACCME ACCREDITATION



An application will be submitted to the EACCME® for CME accreditation of this event

# INTERMEDIATE COURSE PROGRAMME

December 3<sup>rd</sup>, 2026

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11.00 - 12.30 **Registration**

12.30 - 12.35 **Introduction**  
A. Iagnocco, Turin - IT

12.35 - 12.45 **EULAR Competency assessment in MSUS**  
A. Iagnocco, Turin - IT

*Chair: P. Mandl, Wien - AT*

12.45 - 13.15 **Doppler physics and technology. Doppler setting optimisation. Doppler artefacts and pitfalls**  
A. Delle Sedie, Pisa - IT

13.15 - 13.45 **Applications, indications, and limitations of Doppler in RMDs**  
M. Micu, Cluj-Napoca - RO

13.45 - 14.15 **B-mode and Doppler synovitis and tenosynovitis: definition, detection, quantification and pitfalls**  
E. Filippucci, Jesi (AN) - IT

14.15 - 15.45 **Workshop - Supervised practical handling of Doppler US machine settings and Doppler artefacts. Supervised hands-on scanning of patients with synovitis and tenosynovitis**  
Faculty and tutors

*Chair: J. Dias, Torres Novas - PT*

15.45 - 16.15 **US tendon abnormalities (tendinosis, tears, sub/luxation, impingement, calcifications): definition, detection, quantification, and pitfalls**  
A. Delle Sedie, Pisa - IT

16.15 - 16.45 Coffee break

16.45 - 17.15 **B-mode and Doppler enthesopathy, enthesitis, paratenonitis and dactylitis: definition, detection, quantification, and pitfalls**  
J. Dias, Torres Novas - PT



## INTERMEDIATE COURSE PROGRAMME

17.15 - 18.45 **Workshop - Supervised hands-on scanning of patients with tendon abnormalities and dactylitis**

Faculty and tutors

*Chair: A. Abogamal, Cairo - EG*

18.45 - 19.15 **US bone abnormalities (bone erosions, osteophytes), ganglia and cysts: definition, detection, quantification, and pitfalls**

P. Mandl, Wien - AT

# INTERMEDIATE COURSE PROGRAMME

**December 4<sup>th</sup>, 2026**

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

08.30 - 09.00 **US cartilage abnormalities: definition, detection, quantification, and pitfalls**

M. Micu, Cluj-Napoca - RO

09.00 - 09.30 **US assessment of crystal arthropathies: definition, detection, quantification, and pitfalls**

E. Filippucci, Jesi (AN) - IT

09.30 - 10.45 **Workshop - Supervised hands-on scanning of patients with bone lesions, cartilage abnormalities and peri- and intra-articular microcrystal deposits**

Faculty and tutors

10.45 - 11.00 Coffee break

*Chair: O. De Lucia, Milan - IT*

11.00 - 11.30 **US diagnosis of ankle and foot pathology**

O. De Lucia, Milan - IT

11.30 - 12.00 **US diagnosis of knee pathology**

A. Abogamal, Cairo - EG

12.00 - 12.30 **US diagnosis of hip pathology**

V. Vlad, Bucharest - RO

12.30 - 13.30 Lunch

13.30 - 15.00 **Workshop - Supervised hands-on scanning of patients with lower limb inflammatory and degenerative diseases**

Faculty and tutors

*Chair: V. Vlad, Bucharest - RO*

15.00 - 15.30 **US diagnosis of wrist and hand pathology**

G. Giokits, Katerini - GR



## INTERMEDIATE COURSE PROGRAMME

15.30 - 16.00 **US diagnosis of elbow pathology**

C. Rizzo, Barcellona - ES

16.00 - 16.15 Coffee break

16.15 - 16.45 **US diagnosis of shoulder pathology**

O. De Lucia, Milan - IT

16.45 - 18.15 ***Workshop* - Supervised hands-on scanning of patients with upper limb inflammatory and degenerative diseases**

Faculty and tutors



# INTERMEDIATE COURSE PROGRAMME

**December 5<sup>th</sup>, 2026**

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*Chair: N. Damjanov, Belgrade - SRB*

08.30 - 09.15 **US-guided periarticular and intra-articular fluid aspirations and injections**

N. Damjanov, Belgrade - SRB

09.15 - 09.45 **US-guided synovial biopsies**

C. Rizzo, Barcellona - ES

09.45 - 11.15 ***Workshop - Supervised US-guided procedures***

Faculty and tutors

11.15 - 11.45 Coffee break

*Chair: A. Iagnocco, Rome - IT*

11.45 - 12.15 **How to write and publish a paper on MSUS?**

A. Iagnocco, Rome - IT

12.15 - 12.50 **Interactive discussion on normal and pathological Ultrasound images**

J. Dias, Torres Novas - PT

12.50 - 13.00 **Closing remarks**

A. Iagnocco, Rome - IT

# GENERAL INFORMATION

## Organizing Secretariat



## AIM Italy | Milan Office

Viale E. Forlanini 23

20134 Milan, Italy

Tel. +39 02 566011

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

## Course Venue

### Cavour Congress Center

Via Cavour, 50/A

00184 Rome, Italy

## Registration Desk

The Organizing Secretariat will be available onsite as follows:

Thursday, December 3 11.00 - 19.30

Friday, December 4 08.00 - 19.30

Saturday, December 5 08.00 - 13.30

## Language

The official language of the Course is 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.

## Coffee Breaks and Lunch

### BASIC COURSE

Thursday, December 3	Friday, December 4	Saturday, December 5
15.45-16.15 Coffee break	10.30-10.45 Coffee break 13.15-14.15 Lunch 16.15-16.30 Coffee break	10.15-10.45 Coffee break



# GENERAL INFORMATION

## INTERMEDIATE COURSE

Thursday, December 3	Friday, December 4	Saturday, December 5
16.15-16.45 Coffee break	10.45-11.00 Coffee break 12.30-13.30 Lunch 16.00-16.15 Coffee break	11.15-11.45 Coffee break

### Registration Fee

- Registration fee: € 900,00

*The registration fee includes:*

participation in the scientific sessions, course kit, certificate of attendance, lunch breaks and coffee breaks.

Online registration is requested by the November 22, 2026 through the following link

<https://eventi2026.webaimgroup.eu/mskrome/>

### Certificate of attendance

Participants will be able to download the Certificate of Attendance upon completion of the online evaluation form they will receive by email at the end of the Congress.

### Privacy Policy

The information on the processing of personal data in accordance with the European Regulation no. 679 of 2016 is available in the Congress website <https://eventi2026.webaimgroup.eu/mskrome/>



