Musculoskeletal Ultrasound in Rheumatology - Basic Course

Rome, March 26-28, 2020

Chair: Prof. Annamaria Iagnocco

Venue: Hotel METROPOLE, Via Principe Amedeo, 3 - 00185 Rome, Italy

Official Language: English

Application for endorsement to this Course has been submitted to the Italian Society for Rheumatology

Registration will be open to all EULAR Member Countries

Participants will give their formal evaluation of the course

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

Sponsors: Abbvie, Alfasigma, Biogen, BMS, General Electric, Samsung, Sanofi Genzyme

CME Accreditation provided. For the Italian participants the course will be accredited by the Italian Ministry of Health, in relation with the Italian Continuing Medical Educational program (ECM)

Course registration fee: 800 euros (including lodging and food: 1100 euros)

Objectives

- to learn the indications and limitations 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 limitations 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; interpretation of US images; US report and documentation; US diagnosis; basic skills in US-guided procedures.

Workshops (small groups, with supervisors)

- 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.

**Faculty**

Annamaria Iagnocco, Nemanja Damjanov, Christian Dejaco, Andrea Delle Sedie, Georgios Filippou, Emilio Filippucci, Walter Grassi, Zunaid Karim, Peter Mandl, Wolfgang Schmidt

**Tutors:** A. Batticciotto, L. Idolazzi, N. Possemato, A. Zabotti

**Scientific Organiser:** Annamaria Iagnocco

**Local Organiser:** Marco Canzoni
Scientific Programme

March 26, 2020

12.00 - 12.50 Registration and light refreshments
12.50 - 13.00 Introduction A Iagnocco

Chair: A. Iagnocco
13.00 - 13.30 Applications, indications and limitations of US in rheumatology W Schmidt
13.30 - 14.00 Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology N Damjanov
14.00 - 14.30 Sonographic semiology. Definitions for US pathologies and elementary lesions in RMDs. A Iagnocco
14.30 - 15.00 Technical characteristics and setting of US equipment in rheumatology. Holding the probe, equipment settings and optimization. E Filippucci
15.00 - 15.30 Hints on Doppler physics and techniques. Color or power Doppler? Z Karim

15.30 - 16.00 Coffee break
16.00 - 18.00 Workshop 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 tutors

Chair: G. Filippou
18.00 - 18.30 US of the hip. Normal findings and basic US pathology. Lecture (P Mandl) and live demo (G Filippou).
18.30 - 19.30 Workshop Sonoanatomy and standard scans of the hip. How to perform an US examination in healthy subjects and obtain US images. Faculty and tutors
March 27, 2020

**Chair: W Schmidt**

**08.30 - 09.00** US of the knee. Normal findings and basic US pathology. Lecture (**E Filippou**) and live demo (**A Delle Sedie**).

**9.00 - 10.30 Workshop** 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: C Dejaco**

**10.45 - 11.15** US of the ankle and foot. Normal findings and basic US pathology. Lecture (**Delle Sedie**) and live demo (**C Dejaco**).

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

**12.45 - 13.45** Lunch

**Chair: A Delle Sedie**


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

**Chair: N. Damjanov**

**15.45 - 16.15** US of the elbow. Normal findings and basic US pathology. Lecture (**W Schmidt**) and live demo (**N Damjanov**).

**16.15 - 16.30** Coffee break

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

**Chair: P Mandl**

**17.30 - 18.00** US of the hand and wrist. Normal findings and basic US pathology. Lecture (**E Filippucci**) and live demo (**P Mandl**)

**18.00 - 19.30 Workshop** 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**
March 28, 2020

**Chair: E Filippucci**

8.30 - 9.00 Basic skills in sonographic-guided procedures N. Damjanov
9.00 - 9.20 Artifacts, pitfalls and misinterpretations in MSUS Z Karim
9.20 - 9.45 Reporting ultrasound findings and diagnosis. Image documentation G Filippou

9.45 - 10.15 Coffee break

**Chair: A Iagnocco**

10.15 - 10.45 US findings vs Clinical findings: Who is the winner? W Schmidt
10.45 - 11.15 US in RMDs W Grassi
11.15 - 13.15 Workshop Supervised hand-on-scanning of patients with different rheumatic diseases. Faculty and tutors
13.15 - 13.30 Closing remarks A Iagnocco

13.30 Light refreshments