Musculoskeletal Ultrasound in Rheumatology - Basic Course

Rome, March 15-17, 2018

Chair: Prof. Annamaria Iagnocco

Venue: Starhotels Metropole, Rome Italy

Official Language: English

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: Italian Society for Rheumatology, General Electric, ESAOTE

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: 850 euros (including lodging and food: 1100 euros)

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.
Course Presentation

Musculoskeletal ultrasound in rheumatology is a rapidly evolving imaging technique 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 increasing numbers 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 SIR 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 Italian experts in the field and by international speakers who are faculty members of the EULAR Sonography Courses.

Annamaria Iagnocco  
Course coordinator

Faculty

Annamaria Iagnocco, George Bruyn, Marco Cimmino, Maria Antonietta D’Agostino, Nemanja Damjanov, Salvatore D’Angelo, Andrea Delle Sedie, Georgios Filippou, Emilio Filippucci, Walter Grassi, Hilde Berner Hammer, Peter Mandl, Esperanza Naredo, Lene Terslev, Wolfgang Schmidt

Tutors

Alberto Batticciotto, Marco Canzoni, Luca Idolazzi, Garifallia Sakellariou, Alen Zabotti

Scientific Programme

March 15th, 2018

12.00 - 12.50  Registration

12.50 - 13.00  Course Opening

**Annamaria Iagnocco (Chairperson of the Course)**

**Mauro Galeazzi (President Italian Society for Rheumatology)**

Chair: A. Iagnocco

13.00 - 13.25  US in rheumatology

W. Grassi

13.25 - 13.50  Sonographic pattern of musculoskeletal tissues and correlations with anatomy and histology

W. Schmidt

13.50 - 14.15  Sonographic semiology (tendinosis, tenosynovitis, partial and complete tendon tear, entesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis).

A. Iagnocco


P. Mandl
14.40 - 15.05 Applications and limitations of US in rheumatology.
G. Bruyn

15.05 - 15.30 Technical characteristics and setting of US equipment in rheumatology.
E. Naredo

15.30 - 15.55 Doppler physics and techniques. Doppler setting and optimization. Color or power Doppler?
L. Terslev

15.55 - 16.15 Artifacts and misinterpretation in MSUS.
H.B. Hammer

16.15 - 16.30 Coffee break

16.30 - 18.30 Workshop 1 Appropriate use of the US equipment. US settings and B-mode/Doppler optimization. Sonoanatomy: appropriate acquisition of the MSUS images in healthy individuals (muscles, tendons, bursae, ligaments, nerves, cartilage, joint space, joint recesses, joint capsule, cortical profile).
Faculty and Tutors

Chair: M.A. D’Agostino
18.30 - 19.00 US of the hip. Normal findings and basic US pathology.
Lecture: H.B. Hammer
Live demo: A. Delle Sedie.

Faculty and Tutors

21.00 Dinner

March 16th, 2018

Chair: L. Terslev
08.30 - 09.00 US of the knee. Normal findings and basic US pathology.
Lecture: E. Filippucci
Live demo: M.A. D’Agostino.

Faculty and Tutors

10.30 - 10.45 Coffee break

Chair: W. Schmidt
Lecture: G. Bruyn
Live demo: L. Terslev
Faculty and Tutors

13.00 - 13.45  Lunch

Chair: G. Bruyn
   Lecture: A. Delle Sedie
   Live demo: E. Naredo
Faculty and Tutors

Chair: N. Damjanov
   Lecture: N. Damjanov
   Live demo: G. Filippou

16.15 - 16.30  Coffee break

Faculty and Tutors

Chair: H.B. Hammer
18.00 - 18.30  US of the hand and wrist. Normal findings and basic US pathology.
   Lecture: M.A. D’Agostino
   Live demo: E. Filippucci
Faculty and Tutors

21.00  Dinner

March 17th, 2018

Chair: E. Filippucci
08.30 - 08.55  Basic skills in sonographic-guided procedures
   N. Damjanov
08.55 - 09.15  US in arthritis and OA: from inflammation to structural damage lesions.
   P. Mandl
09.15 - 09.35  US findings vs Clinical findings: Who is the winner?
   W. Schmidt
Chair: A Iagnocco

09.35 - 09.55  US or MRI?
    M.A. Cimmino

09.55 - 10.10  Coffee break

10.10 - 10.30  Imaging of rheumatic diseases: spondyloarthritis
    S. D’Angelo

10.30 - 10.55  Imaging of rheumatic diseases: rheumatoid arthritis, osteoarthritis and crystal
    arthropathies
    G. Filippou

10.55 - 13.25  Workshop 8 Supervised hand-on-scanning of patients with different rheumatic
    diseases.
    Faculty and supervisors

13.25 - 13.30  Closing remarks
    A. Iagnocco