6th MUSCULOSKELETAL SONOGRAPHY COURSE
INTERMEDIATE LEVEL COURSE
Belgrade, 5th-7th October, 2017

ORGANIZER
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www.belgrade-course.org
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GENERAL INFORMATION

Congress Venue
Best Western Hotel M
Bulevar Oslobodjenja 56a, 11000 Belgrade

Course opening
Thursday, October 5th, 2017 12.00

Course closing
Saturday, October 7th, 2017 16:00

Participants
Minimal planned number of participants is 30. The number of participants is limited to 40.

Official language
English

Registration is opened for all interested health professionals who finished either a EULAR basic MSUS course or a EULAR scientifically-endorsed basic MSUS course. Participants should have attended the EULAR Introductory US Online.

This Course is recommended for rheumatologists.

We offer two options for registration fee:

- Option A: course, educational material, 3 lunches, 4 coffee breaks, 2 dinners, accommodation (2 nights in Hotel Best Western Hotel M) - Fee: 940€.
- Option B: course, educational material, 3 lunches, 4 coffee breaks, 1 dinner (6th October) - Fee: 700€.

To register please use online registration form provided at the web site: www.belgrade-course.org
To apply for the Intermediate MSUS Course, applicants have to fulfill following requirements:

- Participants should have attended the EULAR Introductory US Online course and either a EULAR basic MSUS course or a EULAR scientifically-endorsed basic MSUS course.
- Prior to acceptance to the course, applicants should send to the Faculty members a total of 6 normal examinations of each joint region in one Power Point file (i.e. shoulder, elbow, wrist & hand, hip, knee, ankle & foot), according to the EULAR Guidelines for Musculoskeletal Ultrasound in Rheumatology (Ref. Backhaus M, et al. Ann Rheum Dis 2001).
- Images should be presented in a power point file. Important: Each slide should include: - One imaged structure each in longitudinal and transverse plane - A legend with the anatomic area, imaged structure and scanning planes - Parameters of the ultrasound machine - Identity of the person scanned should be removed.
- The Faculty members need to provide assessment and feedback. Applicants might need to be asked to repeat the ultrasound examinations and submit the images again for assessment by the Faculty.
- Upon approval of the assessment, the applicant needs to be asked to register for the course.
- The organization and procedures for the above process should be provided by the convenor/organiser of the MSUS intermediate course.
- Participants should be asked to bring a total of 60 normal ultrasound examinations (each in a power point presentation) on a USB stick to the course. The Faculty reserves the right to randomly request and audit the full set of ultrasound examinations from each participant.
FACULTY AND INSTRUCTORS

Peter Balint, Hungary
Geogre Bruyn, Netherlands
Nemanja Damjanov, Serbia
Georgios Filippou, Italy
Annamaria Iagnocco, Italy
Mihaela Mici, Romania
Ingrid Möller, Spain
Esperanza Naredo, Spain
Francesco Porta, Italy
Goran Radunović, Serbia
Violeta Vlad, Romania
Jelena Vojinović, Serbia
Slavica Prodanović, Serbia
Milica Basarić, Serbia
Sanja Milutinović, Serbia
INTERMEDIATE LEVEL MSUS COURSE

OBJECTIVES:

- To review the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines
- To learn colour and power Doppler physics, application, indications and limitations
- To learn definition, ultrasound presentation and quantification of synovitis, synovial hypertrophy, effusion, erosion, tendinopathy, tenosynovitis, entesitis and degenerative lesions
- To assess, quantify and/or score joint lesions
- To learn basic skills to perform sonographic-guided musculoskeletal injections
- To understand the role of musculoskeletal US in clinical and research practice

MAIN TOPICS:

- Role of colour and power Doppler in rheumatology
- Colour and power Doppler physics and technology
- Applications, indication and limitations of colour and power Doppler
- Ultrasound presentation of synovitis, effusion, erosions, tendinopahties, tenosynovitis, entesitis and degenerative lesions
- Role of ultrasound in diagnosis and monitoring of metabolic arthritis
- Role of ultrasound in assessment of skin
- Role of ultrasound in monitoring patients with inflammatory joint diseases
- Standards of safety of ultrasound-guided punctures and injections

WORKSHOP:

- Practical handling of the ultrasound machine settings and use of Colour and power Doppler technology
- Supervised scanning of the patients with inflammatory and degenerative joint disease focused on detection of synovitis, effusion, erosions, tendinopathies, tenosynovitis, entesitis and degenerative lesions.
- Supervised basic sonographic-guided musculoskeletal injections
October 5th 2017, Thursday

11:00 - 13:00 Registration
12:00 - 13:00 Lunch
13:00 - 13:15 Welcome - A. Iagnocco, N. Damjanov
13:15 - 13:45 Entering test of knowledge (S. Prodanović, S. Milutinović)

Chairpersons: A. Iagnocco, G. Filippou

13:45 - 14:25 Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipment for rheumatology (A. Iagnocco)
14:25 - 15:05 US semiology: synovitis; bursitis; bony cortex abnormalities; ligaments, cartilage, muscles and nerves damage. Definition, detection and quantification (G. Filippou)
16:25 - 16:50 Coffee break

Chairpersons: G. Bruyn, P. Balint

16:50 - 17:30 Essential US lesions: Color Doppler and Power Doppler (i.e. basis, optimizing, settings and applications). Color and Power Doppler artifacts (E. Naredo)
17:30 - 18:00 Essential US lesions: tendinopathies, tenosynovitis (G. Bruyn)
18:00 - 18:30 Essential US lesions: enthesitis, enthesopathy (P. Balint)

October 6th 2017, Friday

08:30 - 10:00 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative joint and periarticular soft tissue disorders. How to detect and quantify musculoskeletal lesions

10:00 - 10:20 Coffee break
Chairpersons: E. Naredo, F. Porta
10:20 - 10:50 Standardized scanning of the inflammatory and degenerative shoulder (E. Naredo)
10:50 - 11:20 Standardized scanning of the inflammatory and degenerative elbow (G. Radunović)
11:20 - 11:50 Standardized scanning of the inflammatory and degenerative hand and wrist (F. Porta)
11:50 - 13:20 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative shoulder, elbow, wrist and hand
13:20 - 14:30 Lunch
Chairpersons: I. Moller, V. Vlad
14:30 - 15:00 Standardized scanning of the inflammatory and degenerative hip (M. Micu)
15:00 - 15:30 Standardized scanning of the inflammatory and degenerative knee (V. Vlad)
15:30 - 16:00 Standardized scanning of the inflammatory and degenerative ankle and foot (I. Moller)
16:00 - 16:20 Coffee break
16:20 - 18:00 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative hip, knee, ankle and foot
Chairpersons: P. Balint, A. Iagnocco
18:00 - 18:30 Role of US in the assessment of patients with rheumatoid arthritis (A. Iagnocco)
18:30 - 19:00 Role of US in the assessment of patients with spondyloarthritis (P. Balint)

October 7th 2017, Saturday
Chairpersons: G. Filippou, F. Porta
09:00 - 09:30 Role of US in the diagnosis of crystal arthropathy (G. Filippou)
09:30 - 10:00 Basic US lesions: cartilage and bone lesions in osteoarthritis (F. Porta)
10:00 - 10:30 Coffee break
10:30 - 12:00 **Workshop**: Supervised hands-on scanning of patients with inflammatory and degenerative joint disorders. How to detect and quantify synovitis (including Power Doppler), cartilage and bony lesions.

Chairpersons: N. Damjanov, F. Porta

12:00 - 12:30 Ultrasonography in systemic sclerosis: from the skin to the lung (F. Porta)

12:30 - 13:00 Musculoskeletal ultrasonography in pediatric patients: normal and basic pathological findings (J. Vojinović)

13:00 - 13:35 Basic skills in sonographic-guided arthrocentesis (N. Damjanov)

13:35 - 14:40 **Workshop**: Basic skills in sonographic-guided arthrocentesis

14:40 - 15:10 Exit test of knowledge (M. Basarić, S. Milutinović) and closing remarks (A. Iagnocco, N. Damjanov)

15:10 - 16:00 Lunch and certificate issuing