

3rd MUSCULOSKELETAL SONOGRAPHY COURSE FOR RHEUMATOLOGISTS

UNDER SCIENTIFIC ENDORSEMENT OF THE
EUROPEAN LEAGUE AGAINST RHEUMATISM

BASIC AND INTERMEDIATE LEVEL
Belgrade, March 29th-31st, 2012

**GENERAL INFORMATION AND
COURSE PROGRAMME**



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ORGANIZATION COMMITTEE

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Mihaela Micu, Romania
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Goran Radunović, Serbia
Vlado Skakić, Serbia
Violeta Vlad, Romania

Instructors

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Goran Radunović, Serbia
Vlado Skakić, Serbia
Viktorija Savić, Serbia
Gordana Sušić, Serbia
Violeta Vlad, Romania

GENERAL INFORMATION

Course opening

Thursday, March 29th, 2012 - h 12.00

Course closing

Saturday, March 31st, 2012- h 17:10

Participants

The number of participants is limited to 35 per each course

Official language

English

Congress Venue

Hotel Continental Beograd

Vladimira Popovića 10, BEOGRAD,

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www.ures.org.rs

Musculoskeletal sonography course for rheumatologists, Belgrade 2012 is intended to be a combination of lectures and practical sessions. It is going to be a two-level course – basic and intermediate, each of them consisting of theoretical talks and supervised hands-on scanning of healthy persons and/or patients with musculoskeletal disorders.

Sponsorship: ABBOTT, ESAOTE, PHARMASWISS, ROCHE.

Total amount of sponsorship will not exceed 40% of total cost of the Course.

Esaote will provide ultrasound equipment free of charge. Sponsors will not have any influence on the course programme, scientific and other content, or speakers in any way.

The Course is certified as CME by the Medical Council of the Serbian Ministry of Health.

Course fee will be EUR 490 per participant (covers admission to all conference sessions, conference kit, conference session materials, certificate of attendance and CME certificate, coffee breaks and lunches, as specified in the programme). Party dinner on March 30th costs 30 Eur per participant. Course fee does not cover travel and accommodation expenses.

On-line registration and information about accommodation through the following link:

www.ures.org.rs/uscourse.html

After on-line registration the participants will be contacted by our Technical Organizer MONDORAMA Travel Agency for further details regarding payment and accommodation. Registration will be completed after payment.

For accommodation and payment details please contact the:

Technical organizer:

„Mondorama Ltd“ Travel Agency

Cara Dušana 54-72, Dušanov bazar, lok 216, 18000 Niš, Serbia

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BANK INSTRUCTIONS

For payment in RSD:

Komercijalna banka 205-118113-90

For payment in Eur:

Intermediary

DEUTSCHE BANK AG, FRANKFURT AM MAIN

SWIFT CODE: DEUTDEFF

Account With Institution

OTP BANKA SRBIJA A.D. NOVI SAD, Serbia

SWIFT CODE: OTPVRS22

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IBAN: RS35325960190001759269

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**3rd MUSCULOSKELETAL SONOGRAPHY COURSE FOR
RHEUMATOLOGISTS
Belgrade, March 29th-31st, 2012**

BASIC LEVEL:

OBJECTIVES:

- To learn technical characteristics and setting of ultrasound equipments for rheumatology
- To learn basic normal musculoskeletal ultrasonographic anatomy (MSUS).
- To learn basic pathological MSUS findings
- To learn the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines

MAIN TOPICS:

- Ultrasound physics and technology, technical characteristics of ultrasound equipments in rheumatology, applications, indications and limitations of MSUS
- MSUS anatomy, artifacts and misinterpretation in MSUS
- Standardized sonographic scanning method of each anatomical region (shoulder, elbow, wrist and hand, hip, knee, ankle and foot) according to the EULAR guidelines
- Basic pathological sonographic findings (tendinosis, tenosynovitis, partial and complete tendon tear, entesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis).
- Reporting US findings and diagnosis

WORKSHOP :

- Practical handling of the ultrasound machine settings
- Supervised identification of musculoskeletal sonoanatomy
- Supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle and foot
- Supervised hands-on scanning of patients with basic musculoskeletal lesions

SCIENTIFIC PROGRAMME:

Thursday, March 29th, 2012.

12:00-14:00 Registration

12:00-13:30 Lunch

14:00-14:15 Welcome (basic and intermediate level together) A. Iagnocco, N. Damjanov

14:15-14:40 Entering test of knowledge

14:40-15:00 History and basic physics of MSUS. G. Radunović

15:00-15:20 Coffee break

Chairpersons : A. Iagnocco, P. Balint, M. Szkudlarek

15:10-16:00 Normal tissue and joint anatomy. US and correlative gross anatomy and histology. P. Balint

16:00-16:25 Artifacts and misinterpretation in MSUS. M. Szkudlarek

16:25-16:50 Technical characteristics and setting of ultrasound equipments for rheumatology. A. Iagnocco

16:50-17:10 Coffee break

17:10-18:40 Workshop: Supervised practical handling of the ultrasound machine settings. Normal MSUS anatomy.

Chairpersons: S. Prodanović, N. Damjanov

18:40-19:10 Reporting ultrasound findings and diagnosis. S. Prodanović

19:10-20:00 Workshop: Supervised reporting of ultrasound findings and diagnosis.

Friday, March 30th, 2012.

Chairpersons: P. Balint, N. Damjanov

09:00-09:40 Sonographic semiology (tendinosis, tenosynovitis, partial and complete tendon tear, entesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities and joint synovitis). N. Damjanov

09:40-10:20 Enthesitis and enthesopathy. P. Balint

10:20-10:40 **Coffee break**

Chairpersons: M. Micu, V. Vlad

10:40-11:10 Standardized scanning of the hip: normal and basic pathologic findings. V. Vlad

11:10-12:30 Workshop: Supervised scanning technique of hip. Normal and basic pathological findings

12:30-13:00 Standardized scanning of the knee: normal and basic pathological findings M. Micu

13:00-14:20 Workshop: Supervised scanning technique of knee. Normal and basic pathological findings

14:20-15:30 **Lunch**

Chairpersons: E. Naredo, N. Damjanov

15:30-15:50 Standardized scanning of the shoulder: normal and basic pathological findings. E. Naredo

15:50-17:50 Workshop: Supervised scanning technique of shoulder. Normal and basic pathological findings

20:00- **Dinner party (facultative, extra 30 Eur)**

Saturday, March 31st, 2012.

Chairpersons: A. Bachta, G. Radunović, V. Skakić

09:00- 09:20 Standardized scanning of the wrist and hand: normal and basic pathological findings. G. Radunović

09:20- 09:40 Standardized scanning of the elbow: normal and basic pathological findings. V. Skakić

09:40:10:00 Standardized scanning of the ankle and foot: normal and basic pathological findings. A. Bachta

10:00-10:30 **Coffee break**

10:30-13:20 Workshop: Supervised scanning technique of wrist, hand, elbow, ankle and feet. Normal and basic pathological findings

13:20-13:40 **Coffee break**

13:40-14:10 Exit test of knowledge

14:10-15:10 Lunch and certificate issuing

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INTERMEDIATE LEVEL:

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, tendinopathies, 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 sonographic system

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

SCIENTIFIC PROGRAMME:

Thursday, March 29th, 2012.

12:00-14:00 Registration

12:00-13:30 Lunch

14:00-14:15 Welcome (basic and intermediate level together)
A. Iagnocco, N. Damjanov

14:15-14:30 Entering test of knowledge

Chairpersons : A. Iagnocco, E. Naredo

14:30-15:00 Which is the most appropriate US equipment for rheumatological applications? A. Iagnocco

15:00-15:20 Coffee break

15:20-16:50 Workshop: Supervised practical handling on the US machine settings. Sonoanatomy: correct acquisition of images in normal musculoskeletal structures (muscles, tendons, bursae, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsules and bony profile).

16:50- 17:10 Coffee break

Chairpersons: E. Naredo, P. Balint

17:10-17:50 Doppler physics and techniques. Colour and Power Doppler settings and its optimisation. E. Naredo

17:50- 18:30 Colour Doppler and power Doppler artefacts. P. Balint

18:40-20:00 Workshop: Supervised practical handling of colour/power Doppler. How to use and set equipment. The choice of the appropriate probe.

Friday, March 30th, 2012.

Chairpersons: A. Iagnocco, E. Naredo, F. Porta

- 09:00-09:40 Basic US lesions: synovitis, bony cortex and cartilage. Definition, detection and quantification. E. Naredo
- 09:40-11:10 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative joint disorders. How to detect and quantify synovitis, cartilage and bony lesions.
- 11:10-11:30 Coffee break
- 11:30-12:00 Basic US lesions: tendinopathies, tenosynovitis. A. Iagnocco
- 12:00-12:30 Basic US lesions: enthesitis, enthesopathy. P. Balint
- 12:30-13:00 Basic US lesions: cartilage and bone lesions in osteoarthritis. F. Porta
- 13:00-14:20 Lunch
- 14:20-15:50 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative joint and periarticular soft tissues disorders. How to detect and quantify musculoskeletal lesions
- 15:50-16:10 Coffee break

Chairpersons: M. Szkudlarek, M. Micu, V. Skakić

- 16:10-16:30 Standardized scanning of the inflammatory and degenerative shoulder. M. Szkudlarek
- 16:30-17:00 Standardized scanning of the inflammatory and degenerative elbow V. Skakić
- 17:00-17:20 Standardized scanning of the inflammatory and degenerative hip. M. Micu
- 17:20-17:50 Coffee break
- 17:50-19:00 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative shoulder, elbow, hip and knee
- 20:00 Dinner party (facultative, extra 30 Eur)

Saturday, March 31st, 2012.

Chairpersons: V. Vlad, N. Damjanov

09:00- 09:30 Standardized scanning of the inflammatory and degenerative knee V. Vlad

09:30-10:30 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative shoulder, elbow , hip and knee

10:30-10:50 Coffee break

Chairpersons: A. Bachta, G. Kakavouli, N. Damjanov

10:50-11:20 Standardized scanning of the inflammatory and degenerative hand and wrist. G. Kakavouli

11:20: 11:50 Standardized scanning of the inflammatory and degenerative ankle and foot. A. Bachta

11:50-12:20 Role of US in the diagnosis of crystal arthropathy. S. Prodanović

12:20-12:50 Basic skills in sonographic-guided arthrocentesis.
N. Damjanov

12:50-13:20 Coffee break

13:20-14:50 Workshop: Supervised hands-on scanning of patients with inflammatory and degenerative hand, wrist, ankle and foot

14:50-15:40 Workshop: Basic skills in sonographic-guided arthrocentesis

15:40-16:10 Exit test of knowledge

16:10-17:10 Lunch and certificate issuing