

**INTERMEDIATE MUSCULOSKELETAL SONOGRAPHY COURSE FOR
RHEUMATOLOGISTS
Bucharest, March 8th -10th , 2012**

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

PROGRAMME INTERMEDIATE COURSE BUCHAREST, MARCH, 2012

THURSDAY, MARCH 8TH

14.00- 14.15 Welcome- **R. Ionescu**

14.15-14.30- Entering test of knowledge

Chairpersons: E. Naredo, A. Iagnocco

14.30-15.00 Which is the most appropriate equipment for rheumatologic applications? **A. Iagnocco**

15.00- 15.30 Doppler physics and techniques- Colour and Power Doppler settings and optimization **E. Naredo**

15.30-16.00 Colour Doppler and Power Doppler artifacts **P. Balint**

16.00-16.20 **Coffee break**

16.20-18.20 ***Hands-on training***- supervised practical handling of US machine settings. Sonoanatomy: correct acquisition of images in normal musculoskeletal structures: muscles, tendons, bursae, ligaments, nerves, articular cartilage, joint space, joint recesses, joint capsule and bony profile. Supervised practical handling of colour/power Doppler – how to set the equipment. The choice of appropriate probe.

19.30- **Dinner**

FRIDAY, MARCH 9TH

Chairpersons: N. Damjanov, P. Balint, M. Micu

9.00- 9.40 Basic US lesions: synovitis, bony cortex and cartilage.
Definition, detection and quantification **N. Damjanov**

9.40-11.10 **Hands-on training** Supervised 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 **M.
Micu**

13.00- 14.20 **Lunch**

14.20- 15.50 **Hands on training** Supervised 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: E. Naredo, G. Radunovic

16.10- 16.30 Standardized scanning of inflammatory and degenerative
shoulder **E. Naredo**

16.30-17.00 Standardized scanning of inflammatory and degenerative
elbow **G. Radunovic**

17.00-17.20 Standardized scanning of inflammatory and degenerative hip
M. Micu

17.20-17.40 **Coffee break**

17.40-19.10 **Hands on training** Supervised scanning of patients with
inflammatory and degenerative shoulder, elbow and hip

20.0 **Dinner**

SATURDAY, MARCH 10TH

Chairpersons: F. Porta, E. Naredo, V. Vlad

9.00- 9.30 Standardized scanning of inflammatory and degenerative knee
V. Vlad

9.30-10.30 ***Hands on training*** Supervised scanning of patients with
inflammatory and degenerative knee

10.30-10.50 **Coffee break**

10.50-11.10 Standardized scanning of inflammatory and degenerative hand
and wrist **F. Porta**

11.10-11.30 Standardized scanning of inflammatory and degenerative ankle
and foot **V. Vlad**

11.30-12.00 Role of US in diagnosis of crystal artropathy **A. Iagnocco**

12.00-12.20 Power Doppler US in Rheumatology **E. Naredo**

12.20-12.40 Basic skills in sonographic guided musculoskeletal injections **N.
Damjanov**

12.40-14.0 **Lunch**

14.00-15.30 ***Hands on training*** Supervised scanning of patients with
inflammatory and degenerative hand, wrist, ankle and foot

15.30-17.00 ***Hands on training*** Basic skills in sonographic guided
musculoskeletal injections

17.00- 17.30 Exit test of knowledge

17.30- Certificate issuing

18.00 Closing remarks **A. Iagnocco, N. Damjanov, R. Ionescu**

