

## General information and Course program of the

**2nd MUSCULOSKELETAL SONOGRAPHY COURSE FOR  
RHEUMATOLOGISTS  
- INTERMEDIATE LEVEL -  
Bucharest, March 8<sup>th</sup> -10<sup>th</sup>, 2012**

### ORGANIZATION AND COMMITTEE

#### Scientific Director

*Prof. Annamaria Iagnocco*

Rheumatology Unit,

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#### Local organizer

*Prof. Ruxandra Ionescu*

Head of the department Internal Medicine and Rheumatology

Sf. Maria Hospital

University of Medicine and Pharmacy Carol Davila

Bucharest, Romania

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#### Faculty

The speakers will come from major European musculoskeletal ultrasound research centers and are rheumatologists involved in previous EULAR courses.

The contacted faculty is:

*Peter Balint, Hungary*

*Nemanja Damjanov, Serbia*

*Annamaria Iagnocco, Italy*

*Mihaela Micu, Romania*

*Esperanza Naredo, Spain*  
*Francesco Porta, Italy*  
*Goran Radunović, Serbia*  
*Violeta Vlad, Romania*

## **Instructors**

*Rodina Liceva Nestorova, Bulgaria*  
*Mihaela Micu, Romania*  
*Tzvetanka Petranova, Bulgaria*  
*Francesco Porta, Italy*  
*Slavica Prodanović, Serbia*  
*Goran Radunović, Serbia*  
*Violeta Vlad, Romania*

## **GENERAL INFORMATION**

### **Course opening**

Thursday, March 8th , 2012 - h 12.00

### **Course closing**

Saturday, March 10th, 2012- h 18:00

### **Participants**

The number of participants is limited to 36.

### **Official language**

English

### **Congress Venue**

#### **Sf. Maria Clinical Hospital**

Ion Mihalache Bd. 37-39,sector 1  
011172, Bucharest, Romania  
Phone, fax +40/ 21 222 40 64

### **Organizing Secretariat**

#### **Dr. Violeta Vlad**

Sf. Maria Clinical Hospital  
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tel: +40212224064  
mobile: +40723378557

Participation fee: 500 EURO ( fee includes participation tax and all meals during the course)

**Registration, booking and payment should be made through the execution of the organizer travel agency Ella Traveland. Address: 134, Constantin Noica St. Bucharest;**  
**Phone/fax:0040213156511, Mobile :0040742355773,**  
**e-mail: [office@ella.ro](mailto:office@ella.ro), [laura.sandu@ella.ro](mailto:laura.sandu@ella.ro)**

Bank details:

**ING BANK N.V. AMSTERDAM BRANCH BUCHAREST**

Bank address: 13 Kiseleff Avenue, Bucharest, sector 1

IBAN: RO11INGB0000999901857681 (EUR)

RO09BUCU029874202511RO01 (RON)

SWIFT CODE: INGBROBU

BIC:606410008

The Course is in a process of CME accreditation at the Romanian Ministry of Health.

**Musculoskeletal sonography course for rheumatologists, Bucharest 2012** is intended to be a combination of lectures and practical sessions. It is going to be an intermediate course, consisting of theoretical talks and supervised hands-on scanning of healthy persons and/or patients with musculoskeletal disorders.

Sponsorship: ABBOTT, PFIZER, MSD, ROCHE

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

Ultrasound companies will provide ultrasound equipment free of charge.

Sponsorships will cover travel and accommodation expenses for the faculty,

Course venue and organization costs.

Sponsors will not have any influence on the course programme, scientific and other content, or speakers in any way.

The Course is in a process of CME accreditation at the Romanian Ministry of Health. Registration is intended to be opened for all EULAR member countries.

***Entering test of knowledge and Exit test of knowledge*** will be performed.

Formal evaluation of the course will be performed by all attendees at the end of each course day.

**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, enthesitis 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, enthesitis and degenerative lesions.
- Supervised basic sonographic-guided musculoskeletal injections

## PROGRAMME INTERMEDIATE COURSE BUCHAREST, MARCH, 2012

THURSDAY, MARCH 8<sup>TH</sup>

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 9<sup>TH</sup>

**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 10<sup>TH</sup>

**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**