MUSCULOSKELETAL SONOGRAPHY COURSE
FOR RHEUMATOLOGISTS
- INTERMEDIATE LEVEL -

September 5th – 7th, 2018
Innsbruck, Austria

This course is scientifically endorsed by:
Course opening: Wednesday, September 5th, 2017 – 16.00
Course closing: Friday, September 16th, 2017 - 18.30

Official course language: English

Congress Venue:
Hotel Grauer Bär
Universitätsstraße 5-7
6020 Innsbruck, Austria
www.innsbruck-hotels.at/hotel-grauer-baer/das-hotel

Scientific Organizers:

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Organizing Secretariat:

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Managed by MAW, Vienna, supported by the Austrian Society of Rheumatology and Rehabilitation, Vienna; and the “Verein zur Förderung der Hämatologie, Onkologie und Immunologie”, Innsbruck, Austria
GENERAL INFORMATION

Faculty / Instructors
Peter Balint, MD (Budapest, Hungary), EULAR teacher
George Bruyn, MD (Lelystad, The Netherlands), EULAR teacher
Christian Dejaco, MD, PhD, MBA (Graz, Austria), EULAR teacher
Christina Duftner, MD, PhD (Innsbruck, Austria), EULAR teacher
Peter Mandl, MD, PhD (Vienna, Austria), EULAR teacher
Ingrid Möller, MD (Barcelona, Spain), EULAR teacher
Wolfgang Schmidt, MD (Berlin, Germany), EULAR teacher

Participants
The number of participants is limited to 30.

Practical sessions
The number of participants per teacher in practical sessions is five at maximum.

Course registration:
Course applications (with contact E-mail address, no specific form required) should be E-mailed to margit.bonatti@chello.at or faxed to +43-512-504-23415.
For questions, please call +43-512-934148 or +43-650-8626301

Registration is open for all attendees from EULAR member countries.

The course fee is 900 EUR per participant (excl. taxes; lodging and food included).
OBJECTIVES (in accordance with EULAR guidelines)
To learn
- physics/technique, applications, use and limitations of colour and power Doppler sonography in rheumatology
- intermediate level pathologies including B-mode and Doppler findings of inflammation at joints, tendons and entheses
- detection and quantification of structural changes at bones, cartilage, tendons and entheses in rheumatology
- characteristic findings in crystal arthropathies
- basics about ultrasound guided injections

MAIN TOPICS
- colour and power Doppler physics and technology; applications, use and limitations (including artifacts) of colour and power Doppler sonography
- intermediate level pathological findings (B-mode and colour/power Doppler) at joints, tendons, bursae and entheses
- structural changes at bones, tendons and entheses in rheumatology
- characteristic changes in crystal arthropathies
- ultrasound guided injections

LIVE DEMONSTRATIONS
- to demonstrate standard scans and intermediate level pathologies in patients with rheumatic diseases
- to discuss common colour and power Doppler artefacts and pitfalls
WORKSHOPS

- optimization of colour and power Doppler settings
- supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle and foot in patients with rheumatic diseases
- supervised hands-on scanning with identification of intermediate level pathologies
- supervised training of ultrasound guided injections using phantoms

TIMETABLE

Musculoskeletal Sonography Course in Rheumatology, Intermediate Level, consists of >20 hours of activities within 3 days

REQUIREMENTS OF ATTENDEES

Previous performance of >100 is strongly recommended before participating the intermediate-level course
SCIENTIFIC PROGRAMME

Wednesday, September 5th, 2018

16:00 - 17:00  Registration

17:00 - 17:15  Welcome (G. Weiss, M. Schirmer)

Application, indications and limitations of B-mode and color/power Doppler sonography in rheumatology
Chairperson:  I. Möller

17:15 - 17:45  Colour and power Doppler physics, settings and artifacts (G. Bruyn)

17:45 - 18:30  Use of B-mode and colour/power Doppler to detect and quantify synovial inflammation in rheumatology; differentiation of synovitis from ganglia and cysts (G. Bruyn)

18:30 - 19:00  Live demonstration: B-mode and colour/power Doppler findings in rheumatology (C. Dejaco)

19:00 - 19:30  Workshop 1: Supervised practical session: Doppler settings as well as B-mode and Doppler changes in patients with rheumatic diseases (all faculty)

Satellite symposium (sponsored by NN)
Chairperson:  M. Schirmer
19:30 - 20:00  ...........

20:00  Dinner (sponsored by NN)
Thursday, September 6th, 2018

Structural joint lesions in rheumatology
Chairperson: C. Duftner

08:30 - 09:15 Morphology and quantification of bone erosions, osteophytes and cartilage damage (P. Mandl)

09:15 - 09:45 Live demonstration: Structural lesions in patients with rheumatic diseases (P. Mandl)

09:45 - 11:00 Workshop 2: Supervised practical session: Structural lesions in patients with rheumatic diseases (all faculty)

11:00 - 11:30 Coffee break

Tendon and bursal pathologies: Inflammatory and structural lesions
Chairperson: P. Balint

11:30 - 12:30 Tendon and bursal pathologies at shoulder: tendinosis, paratenonitis, tendon subluxation/luxation, intrasubstance tendon lesions, tendon impingement, tendon tears (I. Möller)

12:30 - 13:15 Live demonstration: Standard scans and tendon/bursal pathologies at shoulder in rheumatic diseases (I. Möller)

13:15 - 14:15 Lunch
14:15 - 15:15  **Workshop 3:** Supervised practical session: Shoulder pathologies in patients with rheumatic diseases (*all faculty*)

**Sonography-guided periarticular and articular injections**
*Chairperson: I. Möller*

15:45 - 16:15  Performance and value of sonography guided periarticular and articular injections (*P. Balint*)

16:15 - 16:30  **Live demonstration:** Sonography guided injections using a phantom (*P. Balint*)

16:30 - 17:00  **Coffee break**

17:00 - 18:30  **Workshop 4:** Supervised practical session using phantoms: Ultrasound guided injections (*all faculty*)

**Satellite symposium (sponsored by NN)**
*Chairperson: NN*

18:30 - 19:30  ............

20:00  **Dinner (sponsored by NN)**
**Friday, September 7th, 2018**

**Tenosynovitis, Enthesitis, Tendonitis**  
*Chairperson: W. Schmidt*

08:30 - 09:00 Detection and quantification of tenosynovitis and tendon tears (*C. Duftner*)

09:00 - 09:30 Enthesitis: B-mode and Doppler findings (*C. Dejaco*)

09:30 - 10:00 **Live demonstration:** Tenosynovitis, Enthesitis (*C. Duftner, C. Dejaco*)

10:00 - 11:00 **Workshop 5:** Supervised practical session: Tenosynovitis and Enthesitis (*all faculty*)

11:00 - 11:30 **Coffee break**

**Microcrystal deposits and calcifications of ligaments, muscles, cartilage and synovia**  
*Chairpersons: P. Mandl*

11:30 - 12:00 Gout: characteristic ultrasound findings (*W. Schmidt*)

12:00 - 12:30 CPPD-disease and soft tissue calcifications: ultrasound findings (*I. Möller*)

12:30 - 13:00 **Live demonstration:** Ultrasound findings in gout and CPPD disease (*W. Schmidt, I. Möller*)

13:00 - 14:00 **Lunch**
14:00- 15:00  **Workshop 6:** Supervised practical session: Crystal arthropathies (*all faculty*)

**Review of intermediate course learning objectives**
*Chairpersons: C. Dejaco*

15:00- 16:00  What have we learnt in this course – key messages from all presentations (*W. Schmidt*)

16:00- 16:45  Image Quiz (*P. Balint*)

16:45 - 17:15  **Coffee break**

17:15 - 18:45  **Workshop 7:** Supervised practical session: Standard scans and intermediate course pathologies (*all faculty*)

18:45-19:00  **Summary, closing remarks and evaluation (M. Schirmer)**
This course is supported by: