



**Intermediate Ultrasound Course  
in Antalya, Turkey  
October 3-5, 2019**

**Programme**

**Venue: The Marmara Hotel, Antalya, Turkey**

**Course fee including course registration, hotel for 3 nights & meals: 950 €**

**Number of participants: 60**

**Language: English**

**Reserve your participation by email: [usgantalya@gmail.com](mailto:usgantalya@gmail.com)**

**Educational Objectives**

Identify the spectrum of musculoskeletal pathology with ultrasound that commonly appears in rheumatological practice

Know physics and application of Doppler sonography for musculoskeletal ultrasound

Ability to perform sonographic-guided articular and periarticular injections.

**This course has been  
scientifically endorsed by**

**eular**  
fighting rheumatic & musculoskeletal  
diseases together

## **Scientific organizers**

Prof. Marina Backhaus  
Parkklinik Weißensee  
Dept. Internal Medicine, Rheumatology and Clinical Immunology  
Schoenstrasse 80, 13086 Berlin, Germany

Prof. Wolfgang A. Schmidt  
Immanuel Krankenhaus Berlin  
Medical Centre for Rheumatology Berlin-Buch  
Lindenberger Weg 19, 13125 Berlin, Germany

Prof. Ender Terzioglu  
Akdeniz University Medical School Department of Internal Medicine  
Division of Rheumatology and Clinical Immunology-Allergy,  
07050 Antalya, Turkey

## **Organizing Secretariat**

Secretary: Prof. Ender Terzioglu  
Akdeniz University Medical School Department of Internal Medicine  
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07050 Antalya, Turkey

**Email: [usgantalya@gmail.com](mailto:usgantalya@gmail.com)**

## **DMR Turizm**

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## **Faculty (All speakers are EULAR teachers):**

Prof. Marina Backhaus, Germany  
Dr. George Bruyn, The Netherlands  
PD Dr. Sarah Ohrndorf, Germany  
Prof. Nevsun Inanc, Turkey  
PD Dr. Peter Mandl, Austria  
Dr. Esperanza Naredo, Spain  
Prof. Dr. Ingrid Möller, Spain  
Prof. Dr. Salih Pay, Turkey  
Prof. Wolfgang Schmidt, Germany  
Prof. Ender Terzioglu, Turkey

## **Additional tutors:**

Prof. Hakan Erdem, Turkey  
Prof. Omer Karadag, Turkey  
Prof. Veli Yazisiz, Turkey

### Requirements for participation:

- Participants should have attended a EULAR basic MSUS course or a EULAR scientifically-endorsed basic MSUS course.
- Prior to acceptance to the course, applicants should send to the 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) to the course organizers via email: [usgantalya@gmail.com](mailto:usgantalya@gmail.com) .
- 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.
- Participants should 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.
- It is highly recommended to participate in the EULAR Online Introductory Ultrasound Course ( <http://www.eular-us-onlinecourse.org/> ) before attending this EULAR-endorsed Intermediate Ultrasound Course. The online course is required for those aiming at achieving Level I EULAR competency in Musculoskeletal Ultrasound.

## Schedule

Thursday, 3<sup>rd</sup> October

	Topic	Speaker	
8.00	Registration		
9.00	Opening	Ender Terzioglu	
9.15	Indications for B-mode ultrasound in Rheumatology	Wolfgang Schmidt	
9.35	Indications for Doppler ultrasound in Rheumatology	Salih Pay	
9.55	Physics of Doppler ultrasound	Peter Mandl	
10.15	Doppler settings	Esperanza Naredo	
10.30	Machine settings - focus on Doppler settings	Hands-on scanning	No rotation
11.15	Coffee break		
11.30	Brush-up sono-anatomy and structures	Hands-on scanning	Rotate once at 12.15
13.00	Lunch break		
15.00	Introduction to synovitis and tenosynovitis	Esperanza Naredo	
15.15	Pathology of the hand	Marina Backhaus	
15.45	Pathology of the hand	Hands-on scanning	Rotate every 30 min
17.15	Coffee break		
17.30	Introduction to enthesitis	Nevsun Inanc	
17.45	Pathology of the elbow	Salih Pay	
18.00	Pathology of the elbow	Hands-on scanning	Rotate every 30 min
19.30	Dinner		

Friday, 4<sup>th</sup> October

	Topic	Speaker	
9.00	Review: How to examine the shoulder	George Bruyn	
9.20	Pathology of the shoulder	Ingrid Möller	
10.00	Introduction to osteoarthritis / bone pathology	Sarah Ohrndorf	
10.30	Coffee break		
10.45	Pathology of the shoulder	Hands-on scanning	Rotate every 30 min
12.15	Pathology of the hip	Ingrid Möller	
12.30	Introduction to crystal arthropathy	George Bruyn	
13.00	Lunch break		
15.00	Pathology of the knee	Ender Terzioglu	
15.30	Pathology hip and knee	Hands-on scanning	Rotate at 16.10
16.45	Coffee break		
17.00	Pathology of foot and toes	Peter Mandl	
17.30	Pathology of foot and toes	Hands-on scanning	Rotate every 30 min
19.30	Dinner		

Saturday, 5<sup>th</sup> October

	Topic	Speaker	
9.00	Quantification: Scoring with ultrasound	Marina Backhaus	
9.45	Scoring	Hands-on scanning	Rotate at 10.15
10.45	Coffee break		
11.00	Ultrasound guided procedures	George Bruyn	
11.40	Introduction to vascular ultrasound in rheumatology	Wolfgang Schmidt	
12.00	Ultrasound guided procedures	Hands-on scanning	No rotation
12.30	Evaluation / Sono-quiz	Marina Backhaus	
13.30	Summary and Conclusions	Ender Terzioglu	
14.00	End of the course		

### Timing

	Total time	Hands-on scanning
Monday	8:00	5:15
Tuesday	8:00	4:45
Wednesday	4:45	1:30
Total	20:45	11:30