



Introduction to Musculoskeletal Ultrasound

Date: Saturday, 26.09.26

Venue:

Panorama Hotel
Analipseos 26 Panorama,
Thessaloniki, PC 55236, Greece

Participation fee: €500

Maximum number of participants: 32

Faculty: Konstantinos Triantafyllias, Rheumatologist

Target level of education: Advanced

Overview of the course

Ultrasound of musculoskeletal system has been established as a particularly useful tool in modern rheumatological clinical practice, essentially complementing the clinical examination in the evaluation of inflammatory and degenerative diseases. It is a portable, radiation-free imaging method that allows direct visualisation of joints, tendons, bursae and entheses, while providing at the same time real time information on the presence of synovitis, tendosynovitis, bursitis, fluid collection and enthesitis, as well as structural alterations.

This informational seminar is designed to highlight the basic principles of musculoskeletal ultrasound, proper image adjustment/ optimisation and systematic identification of the main anatomical structures, with emphasis on the interpretation of findings in Gray Scale and Power Doppler. The hands on approach will focus mainly on rheumatological pathologies, with extension to important orthopedic differential diagnoses and will focus on three main joints: the wrist, the shoulder and the knee.

Learning objectives

- Understanding of the fundamental physics of ultrasonography
- Image optimization and operation, adjustment of ultrasound equipment
- Understanding of advanced cross sectional area ultrasound anatomy of the musculoskeletal system
- Identification of pathological findings in the most common rheumatological pathologies, enhancing clinical assessment and diagnostic accuracy.
- Interpretation of normal/pathological findings in everyday clinical scenarios, with focus on three main joints: the wrist, the shoulder and the knee.

Scientific programme

Time	Topic
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08:30 – 09:00	Arrival – Registration
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09:00	Brief welcome address by the representative of Scientia
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09:00-09:30 Fundamental physical principles of Ultrasound

- Optimisation of Gray Scale Imaging
- Power Doppler settings and optimization for inflammatory activity
- Operation and settings of ultrasound devices

09:30 – 10:00 Carpal Joint – Ultrasound anatomy and key findings

- Anatomical landmarks and key views

- Synovitis, fluid collection and tendonoelytritis on Grey Scale and Power Doppler
 - Main Orthopedic differntial diagnoses
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10:00-11:30 Carpal Joint – hands on

11:30-11:45 Short coffee break

11:45-12:15 Shoulder joint – Ultrasound anatomy and key findings

- Anatomical landmarks and key views
 - Synovitis, bursitis and tendonitis on Grey Scale and Power Doppler
 - Main Orthopedic differential diagnoses
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12:15 – 13:45 Shoulder Joint – hands on

13:45 – 14:15 Short lunch break

14:15 – 14:45 Knee joint – Ultrasound anatomy and basic findings

- Anatomical landmarks and key views
 - Synovitis, fluid collection, Baker's cyst and enthesitis on Grey Scale and Power Doppler
 - Main Orthopedic differntial diagnoses
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14:45-16:15 Knee joint – hands on

16:15 – 16:30 Interactive Quiz

16:30 Closing remarks – End of seminar