

Basic and Intermediate Levels

6th International Musculoskeletal UltraSound Course

28 - 30 Nov 2019
Royal Olympic Hotel, Athens
Athens, Greece



UNDER THE AUSPICES:



Musculoskeletal Imaging Techniques - Ongoing Sonography
A task force for Greek Rheumatologists

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ORGANIZATION AND COMMITTEE

Scientific Director:**Prof. Annamaria Iagnocco**

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Local Organizer:**M.I.T.O.S. (Musculoskeletal Imaging Techniques: Ongoing Sonography - a Task Force for Greek Rheumatologists)****Faculty**

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

Organizing Committee

Giasna Giokits Kakavouli
Dimitrios Karokis
Ioannis Raftakis
Caterina Siagkri

Scientific Committee

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Ioannis Raftakis
Caterina Siagkri

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Peter Balint, Hungary
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Theodoros Dimitroulas, Greece
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Course's opening: Thursday, November 28th, 2019 - h 12:00

Course's closing: Saturday, November 30th, 2019 - h 16:30

Official language: English

Congress Venue: ROYAL OLYMPIC HOTEL, ATHENS

Organizer

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SPEAKERS - INSTRUCTORS



Abogamal Ahmed	Professor of rheumatology Consultant rheumatologist EULAR certified MSUS instructor
Bachta Arthur	MD, PhD, Senior Assistant Department of Internal Medicine and Rheumatology, Military Medical Institute, Warszawa, Poland
Balint Peter	MD, PhD, FRCP (Glasgow), Head of Department, 3 rd Rheumatology Department, National Institute of Rheumatology and Physiotherapy, Budapest, Hungary
Damjanov Nemanja	MD PhD, Full Professor of Internal Medicine, Rheumatology, Belgrade University School of Medicine, Director of the Institute, Institute of Rheumatology, Belgrade, Serbia
Delle Sedie Andrea	MD, Rheumatologist, Azienda Ospedaliero Universitaria Pisana
Dimitroulas Theodoros	MD, PhD, Assistant professor of Rheumatology UOTh
Filippou Georgios	MD, PhD, Rheumatology Clinic, University of Ferrara, Ferrara, Italy
Fortis Athanasios	MD, Orthopaedic surgeon Head of orthopaedic clinic at Panarkadian Hospital Tripoli, Greece
Iagnocco Annamaria	Professor, Dipartimento Scienze Cliniche e Biologiche, Università degli Studi di Torino, Turin, Italy
Kakavouli G. Giasna	MD, Consultant Rheumatologist, Scientific Associate of Hippocraton Hospital of Thessaloniki, 4 th Department of Pathology, Private Practice Katerini, Greece
Kampakis Georgios	MD, Rheumatologist, Athens, Greece



Karokis Dimitris	MSc, Rheumatologist, General Secretary of the M.I.T.O.S. group (Musculoskeletal Imaging Techniques: Ongoing Sonography), Patras, Greece
Katsifis Gkikas	MD, PhD, RhMSUS, Director & Chief of Rheumatology Clinic, Naval Hospital of Athens, Greece
Laskari Katerina	MD, Rheumatologist, Athens, Greece
Natskos Theodoros	Rheumatologist, Veroia, Greece
Porta Francesco	Rheumatologist, Department of Internal Medicine, Section of Rheumatology, University of Florence, Florence, Italy
Prodanović Slavica	MD, PhD, specialist of internal medicine- rheumatologist Chief of the Ultrasound Department Institute of rheumatology Klin. Ass. at School of Medicine University of Belgrade Belgrade, Serbia
Raftakis Ioannis	Rheumatologist, Deputy Head of Clinic, Department of Rheumatology, CHU Brugmann, Brussels, Belgium
Raptopoulou Amalia	MD, PhD, Rheumatologist, Veroia, Greece
Siagkri Caterina	Rheumatologist, Scientific Associate of Hippocraton Hospital of Thessaloniki, Private Practice Thessaloniki, Greece

SCIENTIFIC PROGRAM INFORMATION

Congress Secretariat Opening Hours

Thursday, 28 November 2019	12:00 - 21:00
Friday, 29 November 2019	08:30 - 18:00
Saturday, 30 November 2019	08:30 - 17:00

Certificate of Attendance

Participants can receive their certificate of attendance during the closing session on the 30th of November 2019

To receive the certificate of attendance, it is mandatory to complete and submit the evaluation form, at the Course Secretariat, before the closing session and to show the congress badge.

Congress Halls

Kallirhoe 1	ground floor	• Theory
Kallirhoe 2	ground floor	• Exhibition
Conference 1	1 st floor	• Workshop
Conference 2	2 nd floor	• Workshop
Alexander	ground floor	• Workshop

OBJECTIVES:

- To learn technical characteristics and setting of ultrasound equipment for rheumatology.
- To learn the systematic standardized sonographic scanning method of each anatomical region, according to the EULAR guidelines.
- To learn basic normal musculoskeletal ultrasonographic (MSUS) anatomy.
- To learn basic pathological MSUS findings.

MAIN TOPICS:

- Ultrasound physics and technology, technical characteristics of ultrasound equipments in rheumatology, applications, indications and limitations of MSUS.
- MSUS anatomy, artifacts and misinterpretation in MSUS.
- Standardized sonographic scanning method of each anatomical region (shoulder, elbow, wrist and hand, hip, knee, ankle and foot) according to the EULAR guidelines.
- Basic pathological sonographic findings (tendinosis, tenosynovitis, partial and complete tendon tear, enthesopathy, bursitis, calcifications, articular cartilage lesions, cortical abnormalities, erosions and joint synovitis).
- Reporting MSUS findings and diagnosis.

WORKSHOPS:

- Practical handling of the ultrasound machine settings.
- Supervised identification of musculoskeletal sonoanatomy.
- Supervised standardized sonographic scanning of the shoulder, elbow, wrist and hand, hip, knee, ankle and foot.
- Supervised hands-on scanning of patients with basic musculoskeletal lesions.

SCIENTIFIC PROGRAM

Thursday - November 28th, 2019

12:00 - 14:00	Registration	
12:00 - 13:30	Lunch	
13:30 - 13:45	Welcome	Kallirhoe 1
	G. Giokits - Kakavouli, D. Vassilopoulos	
13:45 - 14:00	Entering test of knowledge - Basic Level	
	J. Raftakis	
	Chairpersons: D. Karokis, J. Raftakis	Kallirhoe 1
14:15 - 14:45	Technical characteristics and setting of ultrasound equipments for Musculoskeletal diseases	
	J. Raftakis	
14:45 - 15:00	Mini break - hall changing	
	Chairpersons: F. Porta, G. Filippou	Kallirhoe 1
15:00 - 15:25	History and basic physics of MSUS	
	A. Abogamal	
15:25 - 16:00	Musculoskeletal anatomy. Sonographic pattern of the musculoskeletal tissues	
	G. Filippou	
16:00 - 16:30	Artifacts and misinterpretation in MSUS	
	F. Porta	
16:30 - 17:00	Coffee break	
17:00 - 18:00	Workshop: Supervised use of the US equipment and settings	Alexander, Conference 1, Conference 2
18:00 - 19:00	Workshop: Supervised Ultrasound assessment of the normal musculoskeletal tissues	Alexander, Conference 1, Conference 2
	Chairpersons: D. Karokis, G. Kampakis	Kallirhoe 1
19:00 - 19:30	Image documentation; reporting of US findings	
	G. Kampakis	
19:30 - 21:00	Workshop: Supervised ultrasound scanning of musculoskeletal disorders pathology	Alexander, Conference 1, Conference 2

SCIENTIFIC PROGRAM
Friday, November 29th, 2019

	Chairpersons: P. Balint, G. Giokits - Kakavouli	Kallirhoe 1
09:00 - 09:30	Sonographic semiology; US and correlative anatomy and histology: articular cartilage lesions, cortical abnormalities; Basic pathology of tendons and ligaments (tendinosis, calcifications, tears) N. Damjanov Live demo - P. Balint	
09:30 - 10:00	Basic synovial US lesions: Enthesitis and enthesopathy P. Balint	
10:00 - 10:30	Standardized scanning of the wrist and hand: normal and basic pathological findings D. Karokis Live demo - P. Balint	
10:30 - 11:00	Coffee break	
11:00 - 12:45	Workshop: US semiology: normal and basic pathological findings (abnormalities of hyaline cartilage, cortical bone, synovial membrane, tendons, ligaments, bursae) Chairpersons: N. Damjanov, C. Siagkri	Alexander, Conference 1, Conference 2
12:45 - 13:15	Standardized scanning of the shoulder normal and basic pathological findings C. Siagkri Live demo - N. Damjanov	Kallirhoe 1
13:15 - 13:45	Standardized scanning of the elbow: normal and basic pathological findings A. Raptopoulou Live demo - N. Damjanov	
13:45 - 14:30	Lunch	
14:30 - 17:00	Workshop: Supervised scanning of the shoulder and the elbow. Normal and basic pathological findings Chairpersons: P. Balint, J. Raftakis	Alexander, Conference 1, Conference 2
17:00 - 17:30	Standardized scanning of the hip: normal and basic pathologic findings G. Kampakis Live demo - P. Balint	Kallirhoe 1
17:30 - 18:00	Standardized scanning of the knee: normal and basic pathological findings J. Raftakis Live demo - P. Balint	

SCIENTIFIC PROGRAM

Saturday, November 30th, 2019

09:00 - 10:45	Workshop: Supervised Ultrasound scanning of the hand, wrist and hip. Normal and basic pathological findings.	Alexander, Conference 1, Conference 2
10:45 - 11:00	Coffee Break Chairpersons: A. Iagnocco, S. Prodanovic	Kallirhoe 1
11:00 - 11:30	Basic synovial US lesions: synovitis, synovial hypertrophy, tenosynovitis and bursitis; Definition, detection and quantification A. Iagnocco	
11:30 - 12:00	Standardized scanning of the ankle and foot: normal and basic pathological findings S. Prodanovic Live demo - A.Delle Sedie	
12:00 - 12:30	Application of US in the management of Musculoskeletal Diseases A. Iagnocco	
12:30 - 13:00	Light lunch Chairpersons: G. Giokits - Kakavouli, N. Damjanov	Kallirhoe 1
13:00 - 13:30	Basic skills in sonographic guided arthrocentesis N. Damjanov	
13:45 - 15:15	Workshop: Supervised ultrasound scanning of the knee, ankle and foot. Normal and basic pathological findings.	Alexander, Conference 1, Conference 2
15:15 - 16:15	Workshop: Basic skills in sonographic-guided arthrocentesis	Alexander, Conference 1, Conference 2
16:15 - 16:30	Exit test of knowledge	
16:30 - 16:45	Closing remarks and certificate issue	

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, enthesopathy 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, enthesitis and degenerative lesions.
- Role of ultrasound in diagnosis and monitoring of metabolic arthritis.
- Role of ultrasound in monitoring patients with inflammatory joint diseases.
- Standards of safety of ultrasound-guided punctures and injections sonographic system.

WORKSHOPS:

- 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.

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Thursday, November 28th, 2019

12:00 - 14:00	Registration	
12:00 - 13:30	Lunch	
13:30 - 13:45	Welcome	Kallirhoe 1
	G. Giokits - Kakavouli, D. Vassilopoulos	
13:45 - 14:00	Entering test of knowledge - Intermediate Level J. Raftakis	
	Chairpersons: D. Karokis, J.Raftakis	Kallirhoe 1
14:15 - 14:45	Sonographic pattern of the musculoskeletal tissues and technical characteristics and setting of ultrasound equipments for rheumatology J. Raftakis	
14:45 - 15:00	Mini break - hall changing	
15:00 - 16:45	Workshop: Supervised ultrasound scanning. How to use and set the ultrasound equipment. The choice of appropriate probe an of the Doppler modalities. Optimisation of Doppler settings. Doppler ultrasound artefacts	Alexander, Conference 1, Conference 2
16:45 - 17:00	Coffee break	
	Chairpersons: A. Delle Sedie, G. Filippou	Kallirhoe 1
17:00 - 17:25	Doppler physics, technology and artefacts. Doppler setting optimization G. Filippou	
17:25 - 17:50	Application, indications and limitations of Doppler in musculoskeletal US G. Katsifis	
17:50 - 18:15	Colour Doppler and power Doppler. Correlations between US imaging and histopathological findings A. Delle Sedie	
	Chairpersons: A. Abogamal, F. Porta	Kallirhoe 1
18:15 - 18:45	US: a tool for diagnosis and outcome measure in Rheumatology A. Abogamal	
18:45 - 19:15	B-mode and Doppler tenosynovitis. Definition, detection, quantification and pitfalls F. Porta	

SCIENTIFIC PROGRAM
Friday, November 29th, 2019

09:00 - 11:00	Workshop: Supervised ultrasound scanning of patients with synovitis and tenosynovitis Chairpersons: P. Balint, G. Giokits - Kakavouli	Alexander, Conference 1, Conference 2
11:00 - 11:25	Tendinosis and tendon tear. Definition, detection, quantification and pitfalls A. Bachtá	Kallirhoe 1
11:25 - 11:50	US bone abnormalities. Definition, detection, quantification and pitfalls A. Abogamal	
11:50 - 12:15	B-mode and Doppler enthesopathy and enthesitis. Definition, detection, quantification and pitfalls P. Balint	
12:15 - 12:45	US cartilage abnormalities. Definition, detection, quantification and pitfalls A. Abogamal	
12:45 - 14:15	Workshop: Supervised ultrasound scanning of patients enthesopathy/enthesitis, tendinosis and tendon tear, bone and cartilage abnormalities	Alexander, Conference 1, Conference 2
14:15 - 15:00	Lunch Chairpersons: G. Giokits - Kakavouli, C. Siagkri	Kallirhoe 1
15:00 - 15:30	US diagnosis of hip pathology G. Filippou Live demo - P. Balint	
15:30 - 16:00	US diagnosis of knee pathology G. Giokits - Kakavouli Live demo - P. Balint	
16:00 - 16:30	US diagnosis of ankle and foot pathology C. Siagkri Live demo - P. Balint	
16:30 - 17:00	Coffee Break	
17:00 - 19:30	Workshop: Supervised hands-on scanning of patients with lower extremity pathology	Alexander, Conference 1, Conference 2

SCIENTIFIC PROGRAM
Saturday, November 30th, 2019

	Chairpersons: J. Raftakis, D. Karokis	Kallirhoe 1
09:00 - 09:30	US diagnosis of shoulder pathology G. Giokits - Kakavouli Live demo - N. Damjanov	
09:30 - 10:00	US diagnosis of elbow pathology J. Raftakis Live demo - N. Damjanov	
10:00 - 10:30	US diagnosis of wrist and hand pathology D. Karokis Live demo - N. Damjanov	
10:30 - 10:45	Coffee Break	
10:45 - 12:30	Workshop: Supervised hands-on scanning of patients with upper extremity Pathology	Alexander, Conference 1, Conference 2
12:30 - 13:00	Light Lunch	
	Chairpersons: G. Giokits - Kakavouli, N. Damjanov	Kallirhoe 1
13:00 - 13:30	Basic skills in sonographic-guided arthrocentesis N. Damjanov	
	Chairpersons: A. Iagnocco	Kallirhoe 1
13:45 - 14:15	US in therapy monitoring S. Prodanovic	
14:15 - 14:45	B-mode and Doppler synovitis. Definition, detection, quantification and pitfalls A. Iagnocco	
14:45 - 16:15	Workshop: Basic skills in sonographic-guided arthrocentesis	Alexander, Conference 1, Conference 2
16:15 - 16:30	Exit tests of knowledge	
16:30 - 16:45	Closing remarks and certificate issues	

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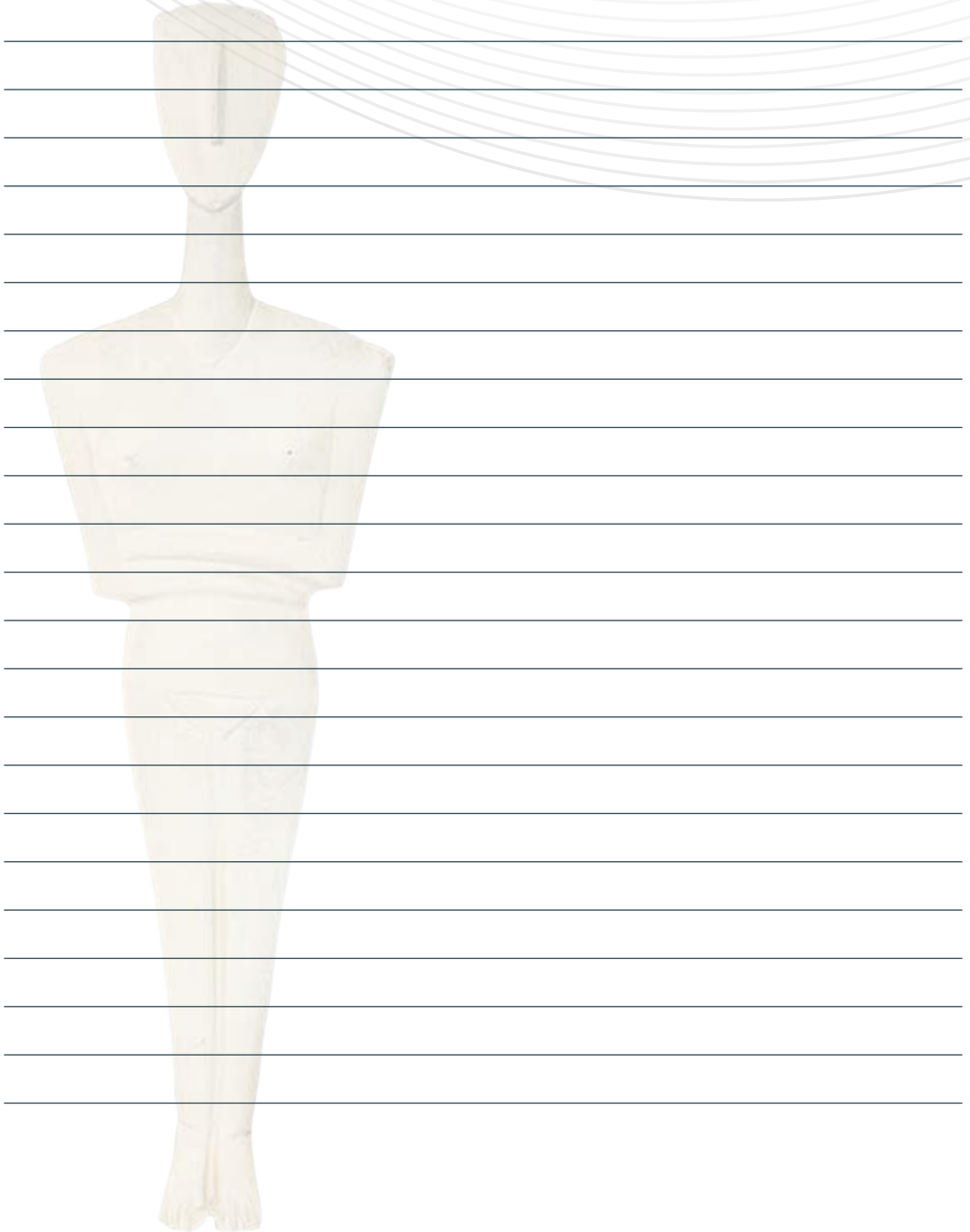


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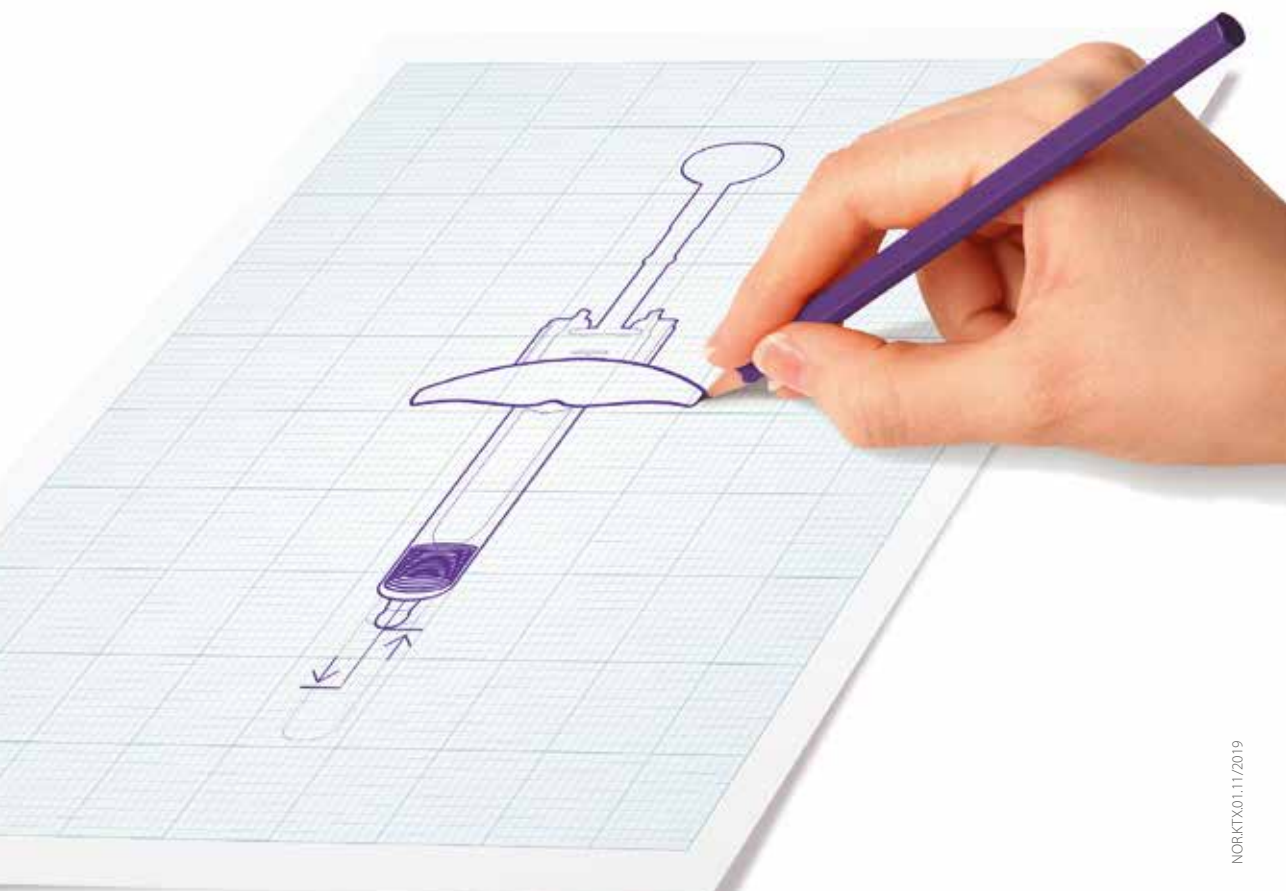
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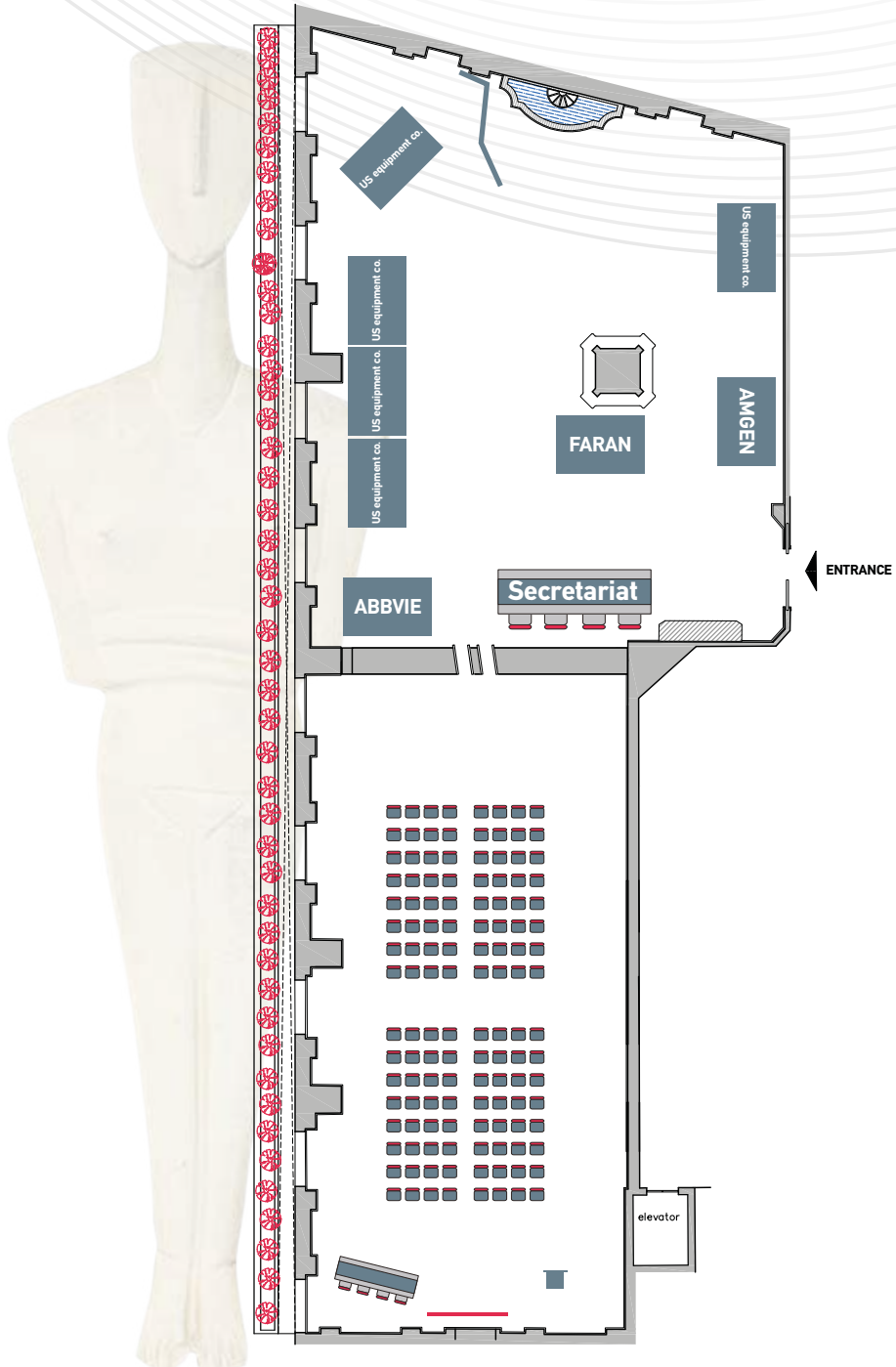
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FLOOR PLAN



10 ΧΡΟΝΙΑ

Βιβλιογραφία

1. Tocilizumab Periodic Benefit-Risk Evaluation Report (PBRER): 11/04/17 έως 10/04/18. - F. Hoffman-LaRoche Ltd (Report Nr.: 1084447).
2. EMA Website: <https://www.ema.europa.eu/en/medicines/human/EPAR/roactemra#authorisation-details-section> (τελευταία πρόσβαση: Αύγουστος 2019).
3. Jones G et al. J Rheumatol 2017;44(2):142-6 (AMBITION 5 years)
4. Gabay C et al. Lancet 2013;381(9877):1541-50. (ADACTA)
5. Dougados M et al. Ann Rheum Dis. 2013;72(1):43-50. (ACT-RAY)
6. Stone JH, et al. N Engl J Med 2017;377(4):317-328.
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