

# ATHENS CMR LEVEL 1-2

SATURDAY 05/10  
SUNDAY 06/10  
MONDAY 07/10

PREPARATION FOR LEVEL 2 & 3  
WEB SCIENTIFIC  
EVENT 2024

Organized by:

- Greek College of Clinical Applications of Cardiovascular Magnetic Resonance "CARDIOTOMI"
- First Cardiology Clinic,  
National Kapodistrian University of Athens

[2024.athenscmrlevel1.com](https://2024.athenscmrlevel1.com)

Organized by: Under the Auspices of the  
Hellenic Cardiological Society



Event endorsed by:



**EACVI**  
European Association of  
Cardiovascular Imaging



The ATHENS CMR Level 1 is accredited  
by the European Board for Accreditation  
in Cardiology (EBAC) for 24 CMEs

## INVITED FACULTY

ADAMOPOULOS S.	Advisor, Onassis Cardiac Surgery Center (OCSC), Athens GR
AGELI K.	Professor of Cardiology, Hippokration Hospital, Athens, GR
AJMONE-MARSAN N.	Assistant Professor , Leiden University Medical Center, Leiden, NL
ALETRAS A.	Professor of Biomedicine and Imaging Technologies, Aristotel University, Thessaloniki, GR
ANDROULAKIS E.	Cardiologist Specialising in CMR, Royal Brompton/Harefield University Hospitals, London, UK
BENETOS G.	Cardiologist, Athens, GR
BRATIS C.	Consultant Cardiologist, Manchester University NHS Foundation Trust, Manchester, UK
BUCH M.	Clinical Professor of Rheumatology, Manchester University, Manchester, UK
CHATZANTONIS G.	Cardiologist, Athens Medical Center, Athens, GR
CHIRIBIRI A.	Professor in Cardiovascular Imaging and Consultant Cardiologist London, UK
CHRISTIDI K.	Cardiologist, Euromedica MRI Unit, Thessaloniki, GR
DAGNA L.	Associate Professor of Internal Medicine, Vita-Salute San Raffaele University School of Medicine, Milano, IT
DANIAS P.	Attending Cardiologist, Director, Cardiac MR Center, Hygeia Hospital, Athens, GR
DE LUCA G.	Rheumatologist, Assistant Professor, Vita-Salute San Raffaele University, San Raffaele Hospital, Milan, IT
DIMITROULAS T.	Assistant Professor of Rheumatology Medical School of Aristotle University of Thessaloniki, Thessaloniki, GR
DORIA A.	Professor, Director of Postgraduate Rheumatology School Department of Medicine, Padova University School of Medicine, Padova, IT
FRIEDRICH M.	Cardiologist, Professor, Departments of Medicine and Diagnostic Radiology, McGill University, Scientific Director, Courtois Cardiovascular Signature Centre, Montreal, CA
GARGANI L.	Cardiologist and Researcher of the University of Pisa, Pisa, IT
GATZOULIS K.	Professor of Cardiology, University of Athens, Hippokration Hospital, Athens, GR
HILLIER E.	Research Associate, McGill University Health Centre, Resident Physician, Internal Medicine, University of Alberta, Alberta, CA
IAKOVOU I.	Director of Invasive Cardiology, OCSC, Athens, GR
IKONOMIDES I.	Professor of Cardiology, Attikon Hospital, Athens, GR
KAPELIOS C.	Attending Cardiologist, Advanced Heart Failure and Transplant Unit, Onassis Cardiac Surgery Center, Athens, GR
KATSIFIS G.	Rheumatologist, Director and Chief, Rheumatology Clinic, Naval Hospital of Athens, Athens, GR
KITAS G.	Professor of Rheumatology, Hygeia Hospital, Athens, GR
KLETTAS D.	Cardiologist, Hipporation Hospital, Athens, GR
KOLENTINIS M.	Cardiologist, Cardiac Imaging/CMR specialist, Athens Medical Center, Athens, GR
KOSTOPOULOU A.	Deputy Director Cardiology, OCSC Athens GR
KOURTIDOU T.	Pediatric Cardiology Consultant, OCSC, Athens, GR
KYLINTIREAS I.	SpR in Cardiology Manchester Heart Centre / Manchester Royal Infirmary , Manchester, UK
LASKARI C.	Pedokardiologist, Mitera Children's Hospital, Athens, GR
LETSAS K.	Deputy Director Cardiology, OCSC Athens GR
LEVELT E.	Professor of Cardiology and Wellcome Trust Clinical Career Development Fellow, School of Medicine, University of Leeds, Leeds, UK
MANGINAS A.	Director, Interventional Cardiology and Cardiology Department,, Mediteraneo Hospital, Athens, GR
MANOUSAKIS M.	Professor of Rheumatology, University of Athens, Athens, GR
MAOUNIS T.	Director 4th Cardiology Dpt, Henry Dunant Hospital Center Athens, GR
MARAGIANNIS D.	Cardiologist, Hippokration Hospital, Athens, GR
MATUCCI-CERINIC M.	Professor of Rheumatology at the University Vita Salute University San Raffaele, Milano, IT
MAVRAGANI C.	Rheumatologist, Assistant Professor Medical School of EKPA, Athens, GR
MAVROGENI S.	Cardiologist, Assistant Director, Onassis Cardiac Surgery Center, Athens, GR

## INVITED FACULTY

MITROUSI K.	Consultant Cardiologist Specialised in Cardiovascular MRI and CT, Interbalkan Medical Center, Thessaloniki, GR
MUKHERJEE M.	Associate Professor of Medicine, Johns Hopkins University Division of Cardiology Baltimore, USA
NAKOU E.	Cardiologist, Specialist in cardiomyopathies and advanced cardiac imaging, King's College Hospital, London, UK
NIJVELDT R.	Professor of Cardiovascular Imaging Radboud University Hospital, Nijmegen NL
NTALIANIS A.	Cardiologist, Alexandra Hospital, Athens, GR
NTOSKAS T.	Consultant Cardiologist, Specializing in Cardiac Magnetic Resonance and Heart Computed Tomography, Mediterranean Hospital of Cyprus, Limassol, CY
NOUSIAS M.	Faculty of Medicine, Martin-Luther-University Halle-Wittenberg GE
NTUSI N.	Cardiologist, Professor of Medicine, Chair and Head of Medicine at the University of Cape Town (UCT) and Groote Schuur Hospital (GSH), Cape Town, SA
NURMOHAMED M.	Professor of Rheumatology, Amsterdam Rheumatology & Immunology Center, Amsterdam, NL
PANOPOULOS S.	Rheumatologist, Laikon Hospital, Athens, GR
PAPANASTASIOU G.	Senior Manager, AI Algorithms at Pfizer" Thessaloniki, GR; and "Lead PI, at Archimedes Unit of the Athena Research Centre", Athens, GR
PEPE A.	Radiologist and Cardiologist, Associate Professor III level Cardiovascular Imaging Coordinator Deputy Director, Institute of Radiology, Department of Medicine, University of Padua Padova, IT
PLEIN S.	Professor of Cardiology and British Heart Foundation Professor of Cardiovascular Imaging at the University of Leeds, Leeds, UK
PUSHPARAJAH K.	Clinical Senior Lecturer in Paediatric Cardiology in the School of Biomedical Engineering & Imaging Sciences at King's College London, London, UK
SARRI G.	Cardiologist, Cardiology Department, Hipporation Hospital, Athens, GR
SCHWITTER J.	Médecin Chef Cardiologie, Directeur du Centre de la RM Cardiaque du CHUV, Centre Hospitalier Universitaire Vaudois Lausanne CH
SFIKAKIS P.	Professor of Internal Medicine, Athens University Medical School, Laikon Hospital, Athens, GR
SIERRA-GALAN L.	Head of Cardiology, Santa Fe Campus of the American British Cowdray Medical Center. Mexico City, MX
TOUSOULIS D.	Professor of Cardiology, University of Athens, Hippokration Hospital, Athens, GR
TSIACHRIS D.	Assistant Professor of Cardiology, University of Athens Medical School EP Lab, Athens Medical Center Athens, GR
TSOUMANI Z.	Cardiologist in CV Imaging, Royal Brompton Hospital, London, UK
VARTELA V.	Cardiologist, Onassis Cardiac Surgery Center, Athens, GR
VENETSANOPOULOU	A. Rheumatologist, Postdoctoral Researcher, School of Health Sciences, Faculty of Medicine, University of Ioannina, Ioannina, GR
VERGANELAKIS D.	Physicist, Onassis Cardiac Surgery Center, Athens, GR
VERMEULEN M.	Product Support Specialist Ultrasound & MR Medis Medical Imaging Systems, Leiden, NL
VIDALAKIS E.	Cardiologist, Athens Medical Center ,Athens, GR
VOULGARIS P.	Professor of Rheumatology, Department of Rheumatology, School of Health Sciences, Faculty of Medicine, University of Ioannina, GR
VRACHLIOTIS T.	Director of Radiology, OCSC Athens, GR
VRETTOU A.	Consultant Cardiologist, Department of Echocardiography, Attikon University Hospital, Athens, GR
WEBER B.	Director, Cardio-Rheumatology Clinic, Associate Physician, Prevention Cardiology and Cardiovascular Imaging, Assistant Professor I Harvard Medical School, Brigham and Women's Hospital, Boston, USA
XANTHIS C.	Physicist, University of Lund, Lund, SE

Welcome: **S. Mavrogeni**

**BASIC SCIENCE COURSE**

**COURSE COORDINATOR A. ALETRAS**

**CHAIR PERSONS: D. VERGANELAKIS, T. VRACHLIOTIS**

✓ *Eur Heart J CVI 2021 Current use of cardiac magnetic resonance in tertiary referral centres for the diagnosis of cardiomyopathy: the ESC EORP Cardiomyopathy/Myocarditis Registry.*

09.00-09.45

Basic CMR physics

**A. Aletras**

09.45-10.30

CMR Sequences and experience on a virtual MR scan

**C. Xanthis**

10.30-11.00

Mapping techniques. Luxury or real clinical need?

**G. Papanastasiou**

11.00-11.15

**DISCUSSION**

11:15-11.30

**BREAK**

**CMR IN CORONARY ARTERY / VASCULAR DISEASE AND CARDIAC REMODELLING**

**CHAIR PERSONS: C. AGGELI, I. IAKOVOU, V. VARTELA**

✓ *2019 Guidelines on Chronic Coronary Syndromes*

✓ *ESC Clinical Practice Guidelines*

Discussion through clinical cases

11.30-12.00

Stress CMR. Qualitative and quantitative approach

**A. Chiribiri**

12.00-12.30

Acute myocardial infarction. CMR diagnosis and evolution over a year

**R. Nijveldt**

12.30-13.00

CMR vs other imaging modalities in the evaluation of coronary artery disease

**E. Vidalakis**

13.00-13.30

Combined brain-heart OS-MRI. Scientific dream or real clinical need?

**M. Friedrich**

13.30-14.00

CMR of the coronary arteries in aneurysmatic / ectatic coronary artery disease

**M. Androulakis**

14.00-14.30

Function-perfusion and tissue characterization in aneurysmatic / ectatic coronary artery disease

**C. Bratis**

14.30-15.00

CMR in acute and chronic aortic diseases

**T. Vrachliotis**

15.00-15.15

**DISCUSSION**

15.15-16.00

**BREAK**

**CMR IN ELECTROPHYSIOLOGY AND PACEMAKERS**

**CHAIR PERSONS: T. MAOUNIS, A. KOSTOPOULOU, K. LETSAS**

✓ *2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association of Cardio-Thoracic Surgery (EACTS)*

Discussion of electrophysiologic queries through CMR cases

16.00-16.30

Role of CMR in electrophysiologists

**K. Gatzoulis**

16.30-17.00

Combined CMR scar maps and electrophysiologic maps for decision making

**D. Tsiachris**

17.00-17.30

Interventional CMR in electrophysiology

**J. Schwitter**

17.30-18.00

CMR conditional devices

**J. Schwitter**

18.00-18.30

**DISCUSSION**

18.30-18.45

**BREAK**

**CMR IN THE ERA OF MULTIMODALITY IMAGING**

**CHAIR PERSONS: G. BENETOS, A. MANGINAS, D. TOUSOULIS**

✓ *2019 Multimodality imaging in the diagnosis, risk stratification, and management of patients with dilated cardiomyopathies: an expert consensus document from the European Association of Cardiovascular Imaging*

18.45-19.15

Echo vs CMR for evaluation of cardiovascular disease in the era of Covid-19

**C. Aggeli**

19.15-19.45

SPECT vs PET-CT vs CMR for ischemia/fibrosis detection in metabolic syndromes/ diabetes mellitus

**E. Levelt**

19.45-20.15

Echo vs CMR for evaluation of pericardial diseases

**D. Klettas**

20.15-20.45

Echo vs CMR in Women diseases

**L. Sierra-Galan**

20.45-21.00

**DISCUSSION**

21.00-21.30

OS data processing.

Advantages versus the routine CMR

**E. Hillier**

**CMR IN NONISCHEMIC CARDIOMYOPATHIES / VALVULAR DISEASES / HEART FAILURE**

**CHAIR PERSONS: S. ADAMOPOULOS, M. NOUTSIAS, C. KAPELIOS**

- ✓ 2021 *Diagnosis and treatment of cardiac amyloidosis: a position statement of the ESC Working Group on Myocardial and Pericardial Diseases*
- ✓ 2021 *ESC Guidelines for the Diagnosis and Treatment of Acute and Chronic Heart Failure: The "Ten Commandments"*

<b>09.00-09.30</b>	CMR in Myocarditis <b>K. Christidi</b>
<b>09.30-10.00</b>	CMR in Hypertrophic Cardiomyopathy <b>K. Mitrousi</b>
<b>10.00-10.30</b>	CMR in Dilated Cardiomyopathy <b>P. Danias</b>
<b>10.30-11.00</b>	Arrhythmogenic Cardiomyopathy <b>Z. Tsoumani</b>
<b>11.00-11.30</b>	CMR in valvular diseases <b>M. Kolentinis</b>
<b>11.30-12.00</b>	CMR in amyloidosis. Classic and parametric indices <b>T. Ntoskas</b>
<b>12.00-12.30</b>	CMR in Heart failure with and without reduced LV ejection fraction <b>D. Maragiannis</b>
<b>12.30-12.45</b>	<b>DISCUSSION</b>
<b>12.45-13.15</b>	How to perform basic+advanced CMR measurements (personal training). Clinical cases analysed using MEDIS protocols <b>Coordinators: M. Vermeulen, R. Nijveldt</b>
<b>13.15-14.00</b>	<b>BREAK</b>

**CMR IN INFLAMMATORY/SYSTEMIC DISEASES**

**CHAIR PERSONS: A. NTALIANIS, V. VARTELA, R. VRETTOU**

- ✓ 2015 *ESC Guidelines for the diagnosis and management of pericardial diseases: The Task Force for the Diagnosis and Management of Pericardial Diseases of the European Society of Cardiology (ESC) Endorsed by: The European Association for Cardio-Thoracic Surgery (EACTS).*

<b>14.00-14.30</b>	MRI Physics of iron deposition in various organs <b>D. Verganelakis</b>
<b>14.30-15.00</b>	CMR in thalassemia <b>A. Pepe</b>
<b>15.00-15.30</b>	CMR in cardio-oncology <b>I. Kyliantiras</b>
<b>15.30-16.00</b>	CMR in neuromuscular disorders <b>G. Chatzantonis</b>
<b>16.00-16.15</b>	<b>DISCUSSION</b>
<b>16.15-16.30</b>	<b>BREAK</b>

**CMR IN CONGENITAL HEART, PULMONARY HYPERTENSION, TUMORS**

**COURSE COORDINATOR: K. PUSHPARAJAH**

**CHAIR PERSONS: C. LASKARI, E. NAKOU, K. PUSHPARAJAH**

- ✓ 2020 *ESC Clinical Practice Guidelines for the management of adult congenital heart disease*

<b>16.30-17.00</b>	Cardiac masses and tumors in children <b>C. Laskari</b>
<b>17.00-17.30</b>	CMR for congenital heart diseases when Echo is limited <b>T. Kourtidou</b>
<b>17.30-18.00</b>	Interventional MRI in congenital heart diseases/pulmonary hypertension <b>K. Pushparajah</b>
<b>18.00-18.30</b>	CMR in growing up congenital heart disease. Is it really necessary? <b>E. Nakou</b>
<b>18.30-18.45</b>	<b>DISCUSSION</b>
<b>18.45-19.00</b>	<b>BREAK</b>

**"The great party of CLINICAL CASES"**

**CHAIRPERSONS: S. MAVROGENI, C. AGGELI**

<b>19.00-19.30</b>	<b>G. Sarri</b>
<b>19.30-20.00</b>	<b>R. Vrettou</b>
<b>20.00-20.30</b>	<b>D. Vidalakis</b>
<b>20.30-21.00</b>	<b>E. Nakou</b>

**CARDIO-RHEUMATOLOGY COURSE**

✓ 2022 Cardiovascular magnetic resonance in autoimmune rheumatic diseases: a clinical consensus document by the European Association of Cardiovascular Imaging Endorsed by Hellenic Society of Cardiology, Greek Society of Rheumatology and World Scleroderma Foundation

9.00-9.05

Welcome  
**S. Mavrogeni**

**Cardio-rheumatology: the two aspects of a coin**  
**CHAIRPERSONS: G. KATSIFIS - S. MAVROGENI**

9.05-9.30

Why we need Cardio-Rheumatology?  
**G. Kitas**

9.30-10.00

Biomarkers, autoantibodies and cardiac imaging. Where we are?  
**L. Gargani**

**Autoimmune diseases with cardiac involvement SLE-APS**  
**CHAIRPERSONS: N. AJMONE-MARSAN - M. MANOUSAKIS**

10.00-10.30

The rheumatologist point of view  
**A. Doria**

10.30-11.00

The cardiologist point of view  
**A. Pepe**

11.00-11.15

**DISCUSSION**

11.15-11.30

**BREAK**

**Heart failure in inflammatory arthritis**  
**CHAIRPERSONS: S. PANOPOULOS, L. SIERRA-GALAN**

11.30-12.00

The rheumatologist point of view  
**M. Nurmohamed**

12.00-12.30

The cardiologist point of view  
**I. Ikonomidou**

**Systemic sclerosis –Myositis**  
**CHAIRPERSONS: C. MAVRAGANI-S.PLEIN**

12.30-13.00

The rheumatologist point of view  
**M. Matucci-Cerinic**

13.00-13.30

The cardiologist point of view  
**S. Mavrogeni**

13.30-13.45

**DISCUSSION**

13.45-14.00

**BREAK**

**Vasculitis**  
**CHAIRPERSONS: P. VOULGARI-C.BRATIS**

14.00-14.30

The rheumatologist point of view  
**L. Dagna**

14.30-15.00

The cardiologist point of view  
**N. Ntusi**

**“The long day’s journey into night”**  
**LEARNING CARDIO-RHEUMATOLOGY THROUGH**  
**CARDIOVASCULAR IMAGING**  
**CHAIRPERSONS: C. AGGELI-J. SCHWITTER**

15.00-15.20

**M. Mukherjee**

15.20-15.40

**B. Weber**

15.40-16.00

**T. Dimitroulas**

16.00-16.20

**G. de Luca**

16.20-16.40

**A. Venetsanopoulou**

16.40-17.00

**DISCUSSION**

**THE BRITISH EXPERIENCE ON CARDIORHEUMATOLOGY USING CMR.**  
**SUGGESTIONS FOR FUTURE MULTICENTER STUDIES.**  
**CHAIRPERSONS: M. NURMOHAMED - S. MAVROGENI**

17.00-17.30

The point of view of rheumatologist  
**M. Buch**

17.30-18.00

The point of view of cardiologist  
**S. Plein**

**Cardio-Rheumatology Course: CONCLUDING REMARKS**

18.00-18.30

CONCLUDING REMARKS  
**P. Sfikakis**



**MAVROGENI S.  
AGGELI K.  
ALETRAS A.  
BRATIS K.  
KITAS G.  
KOURTIDOU T.  
LASKARI C.  
NIJVELDT R.  
PEPE A.  
PUSHPARAJAH K.  
SCHWITTER J.  
SFIKAKIS P.  
TOUSOULIS D.**



**SECRETARIAT**

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**COURSE DIRECTOR**

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