ATHENS CMR LEVEL 1-2

WEB SCIENTIFIC EVENT

2026

SATURDAY 3/10
SUNDAY 4/10

MONDAY 5/10
ONE DAY DEDICATED TO CARDIORHEUMATOLOGY



Organized by:

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

Organized by

Under the Auspices of the

Greek Rheumatology Society

GREEK RHEUMATOLOGY SOCIETY
& PROFESSIONAL ASSOCIATION OF RHEUMATOLOGISTS (ERE-EPERE)

Hellenic Cardiological Society

Endorsed by

EACVI
European Association of Cardiovascular Imaging

EBAC®

The ATHENS CMR Level 1 is accredited by the European Board for Accreditation in Cardiology (EBAC) with **31 CMEs**

INVITED FACULTY

ABBATE A. Professor of Cardiology,University of Virginia, USA
ADAMOPOULOS S. Cardiologist, Advisor, Onassis Hospital, Athens GR
AGGELI C. Professor of Cardiology, Hippokration Hospital, Athens, GR
ALETRAS A. Professor of Biomedicine and Imaging Technologies, Aristotle Univeristy,Thessaloniki, GR
ANDRIKOPOULOS G. Cardiologist, Director 1st Cardiology/Electrophysiology and Pacing Department, Henry Dunant Hospital, Athens, GR
ANDROULAKIS E. Cardiologist Specializing in CMR, Royal Brompton/Harefield University Hospitals, London, UK
BOULMPOU A. Cardiologist, Clinical CMR Fellow, Department of Cardiology, Radboud University Medical Center, Nijmegen, NL
BRATIS C. Consultant Cardiologist, Manchester University NHS Foundation Trust, Manchester, UK
CHATZANTONIS G. Cardiologist, Athens Medical Center, Athens, GR
CHIRIBIRI A. Professor in Cardiovascular Imaging and Consultant Cardiologist, Director, Cardiovascular Magnetic Resonance Service Guy's & St. Thomas' NHS Foundation Trust Head of Department Cardiovascular Imaging, School of Biomedical Engineering & Imaging Sciences King's College (St Thomas Hospital)London, UK
CHRISTIDI A. Cardiologist**,** General Clinic, CMR Unit, Thessaloniki, GR
DAR S.UI.H. Postdoctoral Researcher/Institute for Artificial Intelligence in Cardiovascular Medicine, Department of Cardiology, Angiology, Pneumology, Heidelberg University Hospital and the Heidelberg Faculty of Medicine, Heidelberg University, Heidelberg, GE
DE WAARD G. Cardiologist at Radboudumc in Nijmegen, NL
DILAVERIS P. Assistant Professor of Cardiology NKUA, 3rd Department of Cardiology, Sotiria Chest Diseases Hospital, Athens, GR
DIMITROULAS TH. Assistant Professor of Rheumatology Medical School of AristotleUniversity of Thessaloniki, Thessaloniki, GR
FEHER A. Assistant Professor of Cardiovascular Medicine and Radiology & Biomedical Imaging, Yale University School of Medicine, New Haven, CT
FISCHER K. Associate Professor Bern University Hospital, Department of Anaesthesiology and Pain Medicine, Bern SW
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
GOULES A. Assistant Professor of Rheumatology, Medical School of EKPA, Athens, GR
HILLIER E. Cardiology Fellow, Ottawa Heart Institute, Ottawa, CAN
HINCHCLIFF M. Associate Professor of Medicine, Director of Yale Scleroderma Program, Rheumatology, Allergy & Immunology, Director of Clinical and Translational Research, Internal Medicine, Rheumatology, Associate Director of the Clinical and Translational Research, Accelerator at Yale, Internal Medicine, New Haven, USA
IKONOMIDIS I. Professor of Cardiology, Director of Echocardiography and the Laboratory of Preventive Cardiology, 2nd Cardiology Department National and Kapodistrian University of Athens, Attikon Hospital, Athens, GR
KALAITZOGLOU M. Cardiologist , Opsis Medical Imaging, Nicosia, Cyprus, CY
KARAMARKOU C. Consultant Cardiologist, Head of Cardiac Imaging, Elisabeth-Krankenhaus, Essen, Germany
KATSIFIS G. Rheumatologist, Director and Chief, Rheumatology Clinic, Naval Hospital of Athens, Athens, GR

KEMME M. Cardiologist-Electrophysiologist, Amsterdam University Medical Center, Amsterdam, NL
KIM J. Director, Cardiovascular Imaging Program, Associate Professor of Medicine Weill Cornell Medicine, Division of Cardiology, New York, NY
KITAS G. Director-Centre for the Investigation and Management of Rheumatic Diseases, Hygeia Hospital, Athens, GR, Professor of Rheumatology, University of Manchester and University of Birmingham, UK
KLAVDIANOU K. Assistant Professor of Rheumatology, Department of Internal Medicine, Division of Rheumatology, University Hospital of Patras, Rion, Patras GR
KLETTAS D. Cardiologist, Hippokrateion Hospital, Athens, GR
KOLENTINIS M.Cardiologist, CMR specialist, Iatropolis SA-Athens Medical Center, Athens, GR
KOSTOPOULOU A. Deputy Director Cardiology, Onassis Hospital, Athens GR
KOUDOUNIS P. Consultant Cardiologist, EHRA Cardiac Device Specialist, EACVI TEE & TEE Certified, Athens Heart Center, Athens, GR
KYLINTIREAS I.ConsultantCardiologist , United Lincolnshire Hospitals, UK
LASKARI C. Pedokardiologist, Mitera Children's Hospital, Athens, GR
LAURENT F. Cardiologist, ICPS Paris, Massy, FR
LETSAS K. Deputy Director, Arrhythmia Unit, Laboratory of Cardiac Electrophysiology, Onassis Hospital, Athens, GR
LIMA J. Professor of medicine, radiology and epidemiology John's Hopkins University, USA, Baltimore, USA
LINDSAY K. McGill University Division of Experimental Medicine, Department of Medicine, Montreal, Quebec, CA
LUPI A. Radiologist, Institute of Radiology, Department of Medicine, University of Padua, Padova, IT
MIHAI C. Rheumatologist, University of Zurich, Zurich, SW
MANENTI V. Cardiologist, ICPS Paris, Massy, FR
MANOUSSAKIS M. Professor of Rheumatology, University of Athens, Athens, GR
MARAGIANNIS D. Chief, Division of Cardiovascular Imaging, Director, Cardiovascular MRI Laboratory, 401 General Military Hospital of Athens, GR
MARKETOS N. Consultant Rheumatologist, Academic Scholar, Department of Physiology, School of Medicine National and kapodistrian University of Athens, 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, National and Kapodistrian University of Athens, Athens, GR
MITROUSI K. Consultant Cardiologist specialized in Cardiovascular MRI and CT, Interbalkan Medical Center, Thessaloniki, GR
MOUKARZEL M. Clinical Medical Student Lebanese American University, MSc Experimental Medicine, Cardiovascular MRI Research Lab, McGill University Health Center, Beirut, LB
NAKOU E.Consultant Cardiologist in Inherited Cardiac Conditions and CMR, Lead for Inherited Cardiac Conditions Service in SW UK (Peninsula), Senior Clinical Lecturer, St George's University of London, London, Associate Professor (Hon) in Cardiology, Department of Biomedical Science, University of Exeter, UK
NIJVELDT R. Professor of Cardiovascular Imaging Radboud University Hospital, Nijmegen NL
NIKOLOU E. Cardiologist, Post-CCT Cardiology Fellow in CMR, Royal Brompton Hospital, London, UK

NOUTSIAS M. Faculty of Medicine, Martin-Luther-University Halle-Wittenberg GE
NTALIANIS A. Head of the Coronary Artery Disease and Cardiomyopathy Unit Alexandra General Hospital, Athens, GR
NTOSKAS TH. Consultant Cardiologist, specializing in cardiac magnetic resonance and heart computed tomography, Apollonion Private Hospital, Nicosia, Cyprus, CY
PANOPOULOS S.Rheumatologist,Laikon Hospital, Athens, GR
PAPANASTASIOU G.Research Scientist in AI, Pfizer and Lead PI, at Archimedes Unit of the Athena Research Center, Athena RC, GR
PAPAVASSILIU TH. First Department of Medicine-Cardiology, University Medical Centre Mannheim, Medical Faculty Mannheim; Heidelberg University, GE
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
PUSHPARAJAH K. Clinical Reader in paediatriccardiology ,in the School of Biomedical Engineering & Imaging Sciences at King's College, London,UK
SABET A. Assistant Clinical Professor**,** Director, Advanced Cardiac Imaging, Directror Cardio-Rheumatology Program, Chair American Society echocardiography SIG: Inflammatory Myocardial & Pericardial Disease, Leader, AHA Initiative in Recurrent Pericarditis, Mary and Steve Wen Cardiovascular Division, UC Irvine School of Medicine, California, USA
SARRI G. Cardiologist, Cardiology Department, Hipporation Hospital, Athens, GR
SCHWITTER J. Médecin Chef Cardiologie, Directeur du Centre de la RM Cardiaque du CHUV, Centre HospitalierUniversitaire Vaudois Lausanne CH
SEYFARTH M. Institute for Artificial Intelligence in Cardiovascular Medicine Department of Cardiology, Angiology, Pneumology, Heidelberg University Hospital, Heidelberg, Germany, and the Heidelberg Faculty of Medicine, Heidelberg University, Heidelberg, GE
SIERRA-GALAN L. Head of Cardiology, Santa Fe Campus of the American British Cowdray Medical Center. Mexico City, MX
SKARLATOUDI M. Cardiologist, Congenital Heart Disease and Pediatric Cardiology, TUM University Hospital – German Heart Center, Munich, GE
STAVERI CH. Consultant, Division of Rheumatology, Patras University Hospital, Patras GR
TOULOUPAKI M. Cardiologist, Founder & Director, MyoCardioGen Precision Center, Athens, Associate Consultant Cardiologist Hygeia Hospital, Scientific Associate, Therapeutics Clinic, National and Kapodistrian University of Athens Medical School, Athens, GR
TOUSOULIS D. Professor of Cardiology, University of Athens, Hippokration Hospital, Athens,GR
TSOUMANI Z.Cardiologist in CV Imaging, Royal Brompton Hospital, London, UK
VAN DER BILT I. Cardiologist, Heart Center Haga Teaching Hospital. The Hague and Heart Center University Medical Center Utrecht, NL
VARDAS P. Emeritus Professor of Cardiology, University of Crete, Heart Sector, Hygeia Hospitals Group, Athens, GR
VARTELA V. Cardiologist, Onassis Hospital, Athens, GR
VENETSANOPOULOU A. Rheumatologist, Postdoctoral Researcher, Department of Biological Applications and Technology , University of Ioannina, Ioannina, GR
VERGANELAKIS D. PhysicistOnassisHospital,Athens, GR
VERMEULEN M. Product Manager,MR Medis Medical Imaging, Leiden, NL
VIDALAKIS E. Cardiologist, Athens Medical Center ,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

Saturday October 3, 2026

9.00-9.05: **Welcome: S. Mavrogeni**

BASIC SCIENCE and ARTIFICIAL INTELLIGENCE COURSE
COURSE COORDINATOR A. ALETRAS
CHAIR PERSONS: A. ALETRAS, D. VERGANELAKIS

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

09.05-09.35: Basic CMR physics
A. Aletras
09.35-10.05: CMR challenges and AI expectations
Th. Papavassiliu
10.05-10.35: AI contribution in CMR diagnostic queries
S.UI.H. Dar, M. Seyfarth
10.35-10.50: **DISCUSSION**

CMR IN ISHEMIC AND NON-ISCHEMIC CARDIAC DISEASE
CHAIR PERSONS: C. AGGELI, S. MAVROGENI

2019 Guidelines on Chronic Coronary Syndromes
ESC Clinical Practice Guidelines
Discussion through clinical cases

10.50-11.20: Stress CMR. Qualitative and quantitative approach and comparison with PET
A. Chiribiri
11.20-11.50: T1, T2 mapping and ECV in acute-chronic ischemic and non-ischemic heart disease
R. Nijveldt

SPEED DATE WITH OS-CMR

(SPONSORED BY CEO)

11.50-12.10: Clinical implications of OS-CMR
M. Friedrich
12.10-12.30: OS-CMR in microvascular coronary artery disease
E. Hillier
12.30-12.50: OS-CMR in Patients with MEtabolic Risk but no Overt Heart Disease
K. Lindsay
12.50-13.10: OS-CMR combining brain and heart
M. Moukarzel
13.10-13.30: OS-CMR in Patients Undergoing General Anaesthesia
K. Fischer
13.30-13.50: **DISCUSSION**

13.50-14.10: **BREAK**

INTERVENTIONAL CMR (iCMR)
DISCUSSION OF iCMR QUERIES THROUGH CLINICAL CASES
CHAIR PERSONS: :K. GATZOULIS, J.SCHWITTER, P. VARDAS

(SPONSORED BY IMRICOR)

2022 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death

Welcome to iCMR symposium
14.10-14.15: **S. Mavrogeni**

14.15-15.15: **M. Kemme**
VT recordings.
i. Case Narration
1. Clinicalindications
2. Therapy
3. Technologyinvolved (equipment)
4. Anesthesia (Yes/No)
5. North Star + ADAS
6. Ablationworkflow
7. Post ProcedureScanning

15.15-16.15: **F. Laurent, V.Manenti**
AFL recording
i. CaseNarration
1. Clinicalindications
2. Therapy
3. Technologyinvolved (equipment)
4. Anesthesia (Yes/No)
5. North Star + ADAS
6. Ablationworkflow
7. Post ProcedureScanning

16.15-17.15: **I.Van der Bilt**
i. Lab design
1. Controlroom
2.Labroom
3. Emergency room
ii. Technologyinvolved
1. Equipmentdescription
2. Software and interfaces
iii. Team and workflow
1. ClinicalObjectives
2. InvolvedSpecialists
iv. CostsBenefits Analysis
1. BusinessPlan
2. BusinessCase x Procedure

17.15-17.23: Serial Cardiac Magnetic Resonance Imaging Before and After ICD Implantation in a patient with Ischaemic Cardiomyopathy
M. Kalaitzoglou

17 .23-17.45: **BREAK**

17.45-18.45: **J. Schwitter**

i. Closer look at channels in scars to identify substrate for abla
1.. Post infarction coronary diseases patients
2. Cardiomiopathies

18.45- 19.15: The Greek experience
G. Andrikopoulos

19.15-19.45: CMR scar vs CARTO
P. Koudounis

19.45-20.15: CMR safety issue. CMR in Patients with Cardiac Devices
A. Lupi

20.15:-20.45: QUESTIONS AND ANSWERS
P. Dilaveris
A. Kostopoulou
K. Letsas

Sunday October 4, 2026

CMR IN NONISCHEMIC CARDIOMYOPATHIES / VALVULARDISEASES/HEART FAILURE
CHAIR PERSONS: S. ADAMOPOULOS, M. NOUTSIAS

2021 Diagnosis and treatment of cardiac amyloidosis: a position statement of the ESC WorkingGroup on Myocardial and Pericardial Diseases
2021 ESC Guidelines for the Diagnosis and Treatment of Acute and Chronic Heart Failure: The "TenCommandments"

09.00-09.30: CMR in Myocarditis
K. Mitrousi

09.30-10.00: CMR in Dilated Cardiomyopathy
Z. Tsoumani

10.00-10.30: Arrhythmogenic Cardiomyopathy
A. Christidi

10.30-11.00: CMR in Athletes. The T2 positivity challenge
I. Kylintireas

11.00-11.30: CMR in valvular diseases
M. Kolentinis

11.30-12.00: CMR in cardiac hypertrophy. The challenge of tissue characterization
T. Ntoskas

12.00-12.30: CMR in Heart failure with and without reduced LV ejection fraction
E. Vidalakis

12.30-12.45: **DISCUSSION**

12.45-13.15: How to perform basic+advanced CMR measurements (personal training). Clinicalcasesanalysed using MEDIS protocols
Coordinators: M. Vermeulen, G. de Waard

13.15-14.00: **BREAK**

CMR IN INFLAMMATORY/SYSTEMIC DISEASES
CHAIR PERSONS: C. AGGELI, A. NTALIANIS, D. TOUSOULIS

*2015 **ESCGuidelines** 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).*

14.00-14.30: CMR in thalassemia
A. Pepe
14.30-15.00: CMR in cardio-oncology
D. Maragiannis
15.00-15.30: CMR in neuromuscular disorders
G. Chatzantonis
15.30-16.00: New perspectives ofCMR in female diseases
L. Sierra-Galan
16.00-16.15: **DISCUSSION**

16.15-16.30: **BREAK**

MR 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

16.30-17.00: Cardiac masses and tumors in children
C. Laskari
17.00-17.30: CMR for pediatric congenital heart diseases. Interaction of echo-CMR
M. Skarlatoudi
17.30-18.00: Complementary role of echo-CMR-invasive approach in congenital heart diseases/pulmonary hypertension
K. Pushparajah
18.00-18.30: CMR in growing up congenital heart diseases. Advantages/limitations of Echo and CMR.
E. Nakou
18.30-18.45: **DISCUSSION**

18.45-19.00: **BREAK**

"The great party of CLINICAL CASES"
CHAIRPERSONS: C. AGGELI, S. MAVROGENI

19.00-19.15: **G. Sarri**
19.15-19.30: **A. Boulmpou**
19.30-19.45: **C.Karamarkou**
19.45-20.00: **V. Vartela**
20.00-20.15: **M. Touloupaki**
20.15-20.30: **E.Nikolou**
20.30-20.45: **E. Nakou**

Monday October 5, 2026

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

9.00-09.05: **Welcome**
S. Mavrogeni

CARDIO-RHEUMATOLOGY: DO WE REALLY NEED IT?
CHAIR PERSONS: C.AGGELI, G. KATSIFIS

09.05-09.30: Role of inflammation in macro and micro-vascular coronary artery disease
G. Kitas
09.30-10.00: Blood biomarkersFin the evaluation of CVD in ARDs
S. Panopoulos
10.00-10.30: Advantages and limitations of ECHO in the evaluation of ARDs
L. Gargani
10.30-10.45: **DISCUSSION**

10.45-11.00:**BREAK**

AUTOIMMUNE DISEASES WITH CARDIOVASCULAR INVOLVEMENTSLE-APS
CHAIR PERSONS: D. KLETTAS, C. MAVRAGANI

11.00-11.30: The rheumatologist point of view
M. Manoussakis
11.30-12.00: The cardiologist point of view
B. Weber
12.00-12.15: **DISCUSSION**

12.15-12.30: **BREAK**

AUTOIMMUNE ARTHRITIDES
CHAIR PERSONS: S. PANOPOULOS, A. PEPE

12.30-13.00: The rheumatologist point of view in Rheumatoid arthritis
G. Katsifis
13.00-13.30: The rheumatologist point of view in seronegative arthritis
K. Klavdianou
13.30-14.00: The cardiologist point of view in autoimmune arthritis
I. Ikonomidis

SYSTEMIC SCLEROSIS-MYOSITIS
CHAIR PERSONS: C. MIHAI, A. SABET

14.00-14.30: The rheumatologist point of view in SSc
M. Matucci-Cerinic
14.30-15.00: The rheumatologist point of view in myositis
N. Marketos
15.00-15.15: The cardiologist point of view in SSc and myositis
S. Mavrogeni
15.15- 15.30:**DISCUSSION**

15.30-15.45: **BREAK**

VASCULITIS
CHAIR PERSONS: C. BRATIS, A. VENETSANOPOULOU

15.45-16.15: The rheumatologist point of view
A. Venetsanopoulou
16.15-16.45: The cardiologist point of view
A. Sabet
16.45-17.15: Kawasaki disease and coronary angiography. CT vs CMR
E. Androulakis
17.15-17.45: Myocardial perfusion in Kawasaki disease
C. Bratis
17.45-18.00: **DISCUSSION**

CARDIOVASCULAR IMAGING IN CARDIORHEUMATOLOGY
CHAIR PERSONS: C. AGGELI, M. HINCHCLIFF

18.00-18.30: Advanced CardiovascularImagingin autoimmune rheumatic diseases
A. Feher
18.30-19.00: CMRvs PET in Cardio-Rheumatology
J. Lima
19.00-19.30: How to use imaging to assess cardiovascular pathophysiology in autoimmune rheumatic diseases
A. Abbate

"The long day's journey into night"
LEARNING CARDIO-RHEUMATOLOGY THROUGH CARDIOVASCULAR IMAGING
CHAIR PERSONS: S. MAVROGENI, J. SCHWITTER

19.30-19.45: **J. Kim**
19.45-20.00: **M. Hinchcliff**
20.00-20.15: **T. Dimitroulas**
20.15-20.30: **C. Staveri**
20.30-20.45: **DISCUSSION**

20.45-21.00: **Closing remarks**
S. Mavrogeni

ORGANIZING COMMITTEE

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

COURSE DIRECTOR
Sophie Mavrogeni MD FESC
Email: soma13@otenet.gr

SECRETARIAT
Phaedra Constantinidou
Tel.: 6974869948
Email: fedkonstant03@gmail.com

Program Length: 31 hours, 6 min.