



**GREEK COLLEGE OF CLINICAL APPLICATIONS OF  
CARDIOVASCULAR MAGNETIC RESONANCE**

**“CARDIOTOMI”**

**First Cardiology Clinic, National Kapodistrian  
University of Athens**

**&**

**Hellenic Cardiological Society**

**WEB SCIENTIFIC EVENT  
ATHENSCMR LEVEL 1-2**

**October 5-7, 2024**

**WEB EVENT**

## 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, Aristotle Univeristy, 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 TH. 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 Ch. 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, Hygia 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 TH. 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

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 TH. Consultant Cardiologist, specializing in cardiac magnetic resonance and heart computed tomography, Mediterranean Hospital of Cyprus, Limassol, CY

NOUTSIAS 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

PUNTMANN V. Consultant Physician, Cardiologist and Clinical Pharmacologist, Institute for Experimental and Translational Cardiovascular Imaging, DZHK Centre for Cardiovascular Imaging - Goethe CVI, University Hospital Frankfurt, GE

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, Hippokraton Hospital, Athens, GR

SCHWITTER J. Médecin Chef Cardiologie, Directeur du Centre de la RM Cardiaque du CHUV, Centre Hospitalier Universitaire Vaudois Lausanne SW

SFIKAKIS P. Professor of Internal Medicine, Athens University Medical School, Laiko Hospital, Athens, GR

SIERRA-GALAN L. Head of Cardiology, Santa Fe Campus of the American British Cowdray Medical Center. Mexico City, Mexico

TOUSOULIS D. Professor of Cardiology, University of Athens, Hippokraton 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

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

VOULGARI P. Professor of Rheumatology, Department of Rheumatology, School of Health Sciences, Faculty of Medicine, University of Ioannina, GR

VRACHLIOTIS TH. 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 CH. Physicist, University of Lund, Lund, Sweden

## Saturday October 5, 2024

9.00-9.05: **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.

09.05-09.45 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: Th. 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**

**Sunday October 6, 2024**

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

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

- 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. Christidi**

**09.30-10.00:** CMR in Hypertrophic Cardiomyopathy

**K. Mitrousi**

**10.00-10.30:** CMR in Dilated Cardiomyopathy

**P. Danias**

**10.30-11.00:** Arrhythmogenic Cardiomyopathy

**Z. Tsoumani**

**11.00-11.30:** CMR in valvular diseases

**M. Kolentinis**

**11.30-12.00:** CMR in amyloidosis. Classic and parametric indices

**T. Ntoskas**

**12.00-12.30:** CMR in Heart failure with and without reduced LV ejection fraction

**D. Maragiannis**

**12.30-12.45:** DISCUSSION

**12.45-13.15:** How to perform basic+advanced CMR measurements (personal training).

Clinical cases analysed using MEDIS protocols

**Coordinators: M. Vermeulen, R. Nijveldt**

**13.15-14.00 BREAK**

**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).*

**14.00-14.30:** MRI Physics of iron deposition in various organs

**D. Verganelakis**

**14.30-15.00:** CMR in thalassemia

**A. Pepe**

**15.00-15.30:** CMR in cardio-oncology

**I. Kylintireas**

**15.30-16.00:** CMR in neuromuscular disorders

**G. Chatzantonis**

**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 congenital heart diseases when Echo is limited

**T. Kourtidou**

17.30-18.00: Interventional MRI in congenital heart diseases/pulmonary hypertension

**K. Pushparajah**

18.00-18.30: CMR in growing up congenital heart disease. Is it really necessary?

**E. Nakou**

18.30-18.45: DISCUSSION

18.45-19.00: BREAK

**“The great party of CLINICAL CASES”**

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

19.00-19.30: G. Sarri

19.30-20.00: R. Vrettou

20.00-20.30: D. Vidalakis

20.30-21.00: E. Nakou

## Monday October 7, 2024

### 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**  
**Chair persons: 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**

**Chair persons: 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**

**Chair persons: 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. Ikonomidis**

**Systemic sclerosis –Myositis**

**Chair persons: 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**

**Chair persons: P. Voulgari-C.Bratz**

**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**

**Chair persons: 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 V. Puntmann**

**16.40-17.00: DISCUSSION**

**THE BRITISH EXPERIENCE ON CARDIORHEUMATOLOGY USING CMR. SUGGESTIONS FOR FUTURE MULTICENTER STUDIES.**

**Chair persons: 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**

**ORGANIZING COMMITTEE**

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.

**COURSE DIRECTOR**

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ΔΙΑΡΚΕΙΑ ΠΡΟΓΡΑΜΜΑΤΟΣ 31 ΩΡΕΣ