

ORGANIZED BY



FONDAZIONE  
INTERNAZIONALE  
MENARINI



**April 27<sup>TH</sup> - 29<sup>TH</sup>, 2017 • ATHENS, GREECE**

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# **International Training Course on Rare & Inherited Cardiovascular Disease**

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**Zappeion Exhibition Hall**

**PROGRAMME**

On behalf of the scientific committee and the Fondazione Internazionale Menarini, it is a great pleasure to welcome you to the ancient city of Athens and the first International Training Course on Rare and Inherited Cardiovascular Disease. There are between 6,000 and 8,000 known rare disorders and it is estimated that 1 in 17 of the general population will be affected by a rare disease at some point in their lives. Inherited cardiovascular conditions are a group of more than 50 disorders that include electrical, structural and vascular diseases that affect around 1 in 240 European citizens. In addition, many rare metabolic and neurological conditions are characterised by cardiovascular involvement that can be the major determinant of prognosis and quality of life.

The importance of rare conditions in general to the European research agenda is reflected in the priorities of national funding agencies and the European Commission Horizon 2020 programme. However, the planning and organization of national health services remains focused on all encompassing diagnoses such as heart failure and coronary artery disease that conceal a diverse and complex range of rare disorders which are frequently misdiagnosed or overlooked, resulting in poor medical care and potentially adverse consequences for individuals and families.

The aim of this meeting is to improve the education and training of cardiologists in the field of rare and genetic disorders and to prepare individual practitioners for the new era of personalized healthcare. With reference to our host country, the course is 'Socratic' in style with an emphasis on clinical questions to be answered by interactive discussion between attendees. We are enormously fortunate in having some of the World's greatest experts in our faculty and sincerely hope that you will use this great opportunity to ask questions and network with your peers.

We wish you a successful and enjoyable meeting.

*Prof. Perry Elliott*  
President of the Meeting



**PRESIDENT OF THE MEETING:**

Prof. Perry Elliott

**CO-PRESIDENT OF THE MEETING:**

Prof. Konstantinos Tsioufis

**ORGANIZED BY:**

Fondazione Internazionale Menarini  
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**ORGANIZING SECRETARIAT:**

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**ATHENS HALL****NAXOS HALL****THURSDAY, APRIL 27<sup>TH</sup>**

03:00 p.m. | 04:00 p.m.

**Opening Ceremony**

04:00 p.m. | 06:15 p.m.

**CORE SESSION**

06:15 P.M. | WELCOME COCKTAIL

**FRIDAY, APRIL 28<sup>TH</sup>**

08:00 a.m. | 10:30 a.m.

**CORE SESSION**

10:30 A.M. | COFFEE BREAK

11:00 a.m. | 01:30 p.m.

**TRACK ONE****Systemic diseases  
with cardiovascular involvement**

11:00 a.m. | 01:30 p.m.

**TRACK TWO****Rhythm**

01:30 P.M. | LUNCH

02:30 p.m. | 04:20 p.m.

**TRACK ONE****Systemic diseases  
with cardiovascular involvement**

02:30 p.m. | 04:20 p.m.

**TRACK TWO****Rhythm**

04:20 P.M. | COFFEE BREAK

04:50 p.m. | 06:00 p.m.

**CORE SESSION****ECG Workshop****SATURDAY, APRIL 29<sup>TH</sup>**

08:00 a.m. | 10:30 a.m.

**TRACK THREE****Vessels & Valves**

08:00 a.m. | 10:30 a.m.

**TRACK FOUR****Muscle**

10:30 A.M. | COFFEE BREAK

11:00 a.m. | 12:50 p.m.

**TRACK THREE****Vessels & Valves**

11:00 a.m. | 12:50 p.m.

**TRACK FOUR****Muscle**

12:50 P.M. | LUNCH

02:00 p.m. | 03:00 p.m.

**CORE SESSION**

03:00 p.m. | 04:30 p.m.

**CORE SESSION****Live Demonstration**

04:30 P.M. | CLOSING SUMMARY

# PROGRAMME

**Thursday, April 27<sup>th</sup> - Afternoon**

ATHENS HALL

## OPENING CEREMONY

Chairpersons: **A. Anastasakis** (Athens, GR), **P. Elliott** (London, UK),  
**A. Tsatsopoulou** (Naxos, GR)

03:00 p.m. **D. Tousoulis** (Athens, GR), **K. Tsioufis** (Athens, GR)  
*Welcome addresses*

03:20 p.m. **T. Voigtländer** (Vienna, A)  
*Main Lecture: Rare disease in Europe*

03:40 p.m. **P. Elliott** (London, UK)  
*Main Lecture: Changing the cardiology paradigm*

## CORE SESSION (ALL ATTENDEES)

### SESSION I • GENERAL APPROACHES TO THE DIAGNOSIS OF RARE/INHERITED CARDIOVASCULAR DISEASE 1: CLINICAL: A CONVERSATION WITH THE EXPERTS

Chairpersons: **A. Keren** (Jerusalem, IL), **W.J. McKenna** (London, UK)

04:00 p.m. **P. Elliott** (London, UK), **C. Rapezzi** (Bologna, I), **G. Sinagra** (Trieste, I)  
*Key Topics:*  
• *What question should I ask?*  
• *What should I look for?*  
• *What are the red flags for a rare disease?*

### SESSION II • GENERAL APPROACHES TO THE DIAGNOSIS OF RARE/INHERITED DISEASE 2: PATHOLOGY

05:00 p.m. **E. Arbustini** (Pavia, I)  
*Future pathological classification of rare diseases*

05:15 p.m. **E. Arbustini** (Pavia, I)  
**C. Basso** (Padua, I)  
**A. Keren** (Jerusalem, IL)  
*Round table discussion*

Participants: **G. Efthymiadis** (Thessaloniki, GR), **A. Patrianakos** (Heraklion, GR)  
**E. Prappa** (Athens, GR), **K. Ritsatos** (Athens, GR)

06:15 p.m. WELCOME COCKTAIL

## Friday, April 28<sup>th</sup> - Morning

ATHENS HALL

CORE SESSION (ALL ATTENDEES)

### SESSION III • A PRIMER IN CLINICAL GENETICS FOR THE CARDIOLOGIST

Chairpersons: **J. Mogensen** (Odense, DK), **L. Monserrat** (La Coruña, E)  
**P. Syrris** (London, UK)

08:00 a.m. **P. Charron** (Paris, FR)  
*How common are inherited cardiovascular disorders?*

08:20 a.m. **E. Arbustini** (Pavia, I)  
*How does a family history and screening help me to make the diagnosis of a rare cardiovascular disease?*

08:40 a.m. **D. Germain** (Paris, FR)  
*How do I interpret the results of genetics tests?*

09:00 a.m. **Take Home Message / Discussion**

### SESSION IV • GENERAL APPROACHES TO THE DIAGNOSIS OF RARE/ INHERITED DISEASE 3: NON-INVASIVE IMAGING

Chairpersons: **G. Athanassopoulos** (Athens, GR), **M. Kalantzi** (Athens, GR)

09:15 a.m. **J. Bogaert** (Leuven, B), **A. Linhart** (Prague, CZ)  
**P. Nihoyannopoulos** (London, UK)  
*Key Topics:*

- *When should I suspect a rare disease phenotype on echo?*
- *How can I use echocardiography to monitor patients with known rare disease?*
- *Are there specific rare disease diagnoses that can be made using CMR?*
- *What is the place of nuclear imaging in confirming the diagnosis of rare diseases?*

10:15 a.m. **A. Linhart** (Prague, CZ)  
*Summary*

10:30 a.m. **COFFEE BREAK**

**Friday, April 28<sup>th</sup> - Morning**

ATHENS HALL

**TRACK ONE: Systemic diseases with cardiovascular involvement**

**THE HEART IN NEUROMUSCULAR DISORDERS**

Chairpersons: **G. Efthymiadis** (Thessaloniki, GR), **E. Iliodromitis** (Athens, GR)

Moderators: **P. Elliott** (London, UK), **D. Germain** (Paris, FR)

11:00 a.m. **J.R. Gimeno-Blanes** (Murcia, E)  
*How is the heart affected in common muscular dystrophies?*

11:20 a.m. **A. Anastasakis** (Athens, GR)  
*What is the cardiologist's role in myotonic dystrophy?*

11:40 a.m. **G. Limongelli** (Naples, I)  
*When should I suspect mitochondrial diseases?*

**THE HEART IN METABOLIC AND STORAGE DISEASES**

12:00 p.m. **M. Arad** (Ramat Gan, IL)  
*How do I diagnose glycogen storage disorders in children and adults?*

12:20 p.m. **D. Farmakis** (Athens, GR)  
*How is the heart affected in disorders of iron metabolism?*

12:40 p.m. **A. Linhart** (Prague, CZ)  
*How do lysosomal storage disorders affect the heart?*

01:00 p.m. **Take Home Message / Discussion**

01:30 p.m. LUNCH



**Friday, April 28<sup>th</sup> - Morning**

NAXOS HALL

**TRACK TWO: Rhythm**

**ION CHANNEL DISEASE**

Chairpersons: **S. Sharma** (London, UK) **F. Triposkiadis** (Larissa, GR)

Moderators: **P. Garcia-Pavia** (Madrid, E), **P. Syrris** (London, UK)

11:00 a.m. **L. Crotti** (Milan, I)  
*How do I diagnose and treat long and short QT syndrome?*

11:30 a.m. **P. Lambiase** (London, UK)  
*What is Brugada syndrome and CPVT? How do I stratify risk?*

**DISORDERS OF THE ATRIA AND SPECIALIZED CONDUCTION SYSTEM**

12:00 p.m. **Y. Pinto** (Amsterdam, NL)  
*What are the diagnostic red flags for rare forms of AV Block?*

12:20 p.m. **I. Olivetto** (Florence, I)  
*Is atrial fibrillation a mask for rare disorders?*

12:40 p.m. **E. Rowland** (London, UK)  
*When should I diagnose tachycardiomyopathy?*

01:00 p.m. **Take Home Message / Discussion**

01:30 p.m. LUNCH





## Friday, April 28<sup>th</sup> - Afternoon

ATHENS HALL

### TRACK ONE: Systemic diseases with cardiovascular involvement

#### INFLAMMATORY & INFILTRATIVE DISEASES

Chairpersons: **P.G. Camici** (Milan, I), **A. Tsatsopoulou** (Naxos, GR)

Moderators: **C. Basso** (Padua, I), **A. Keren** (Jerusalem, IL)

02:30 p.m. **C. Rapezzi** (Bologna, I)  
*When should I suspect amyloidosis?*

02:55 p.m. **G. Sinagra** (Trieste, I)  
*What are the clinical red flags for myocarditis?*

03:20 p.m. **A. Caforio** (Padua, I)  
*How do I manage therapy in myocarditis?*

03:45 p.m. **Take Home Message / Discussion**

04:20 p.m. COFFEE BREAK

NAXOS HALL

### TRACK TWO: Rhythm

#### PREVENTING SUDDEN CARDIAC DEATH

Chairpersons: **F. Cecchi** (Florence, I), **K. Gatzoulis** (Athens, GR)

Moderators: **A. Anastasakis** (Athens, GR), **M. Borggrefe** (Mannheim, D)

02:30 p.m. **P. Lambiase** (London, UK)  
*How do I select and manage ICDs in patients with inherited disease?*

02:50 p.m. **S. Sharma** (London, UK)  
*How do I prevent sudden death in athletes?*

03:10 p.m. **W.J. McKenna** (London, UK)  
*How do I manage families of sudden death victims?*

03:30 p.m. **P. Elliott** (London, UK)  
*How do I predict sudden death risk in hypertrophic cardiomyopathy?*

03:50 p.m. **Take Home Message / Discussion**

04:20 p.m. COFFEE BREAK

**Friday, April 28<sup>th</sup> - Afternoon**

ATHENS HALL

CORE SESSION (ALL ATTENDEES)

SESSION V • ECG WORKSHOP

Chairpersons: **D.G. Katritsis** (Athens, GR), **P. Lambiase** (London, UK)

Demonstrators: **M. Borggrefe** (Mannheim, D), **E. Rowland** (London, UK)

04:50 p.m.

**Workshop**

06:00 p.m.

**End of session**

## Saturday, April 29<sup>th</sup> - Morning

ATHENS HALL

### TRACK THREE: Vessels & Valves

#### PULMONARY CIRCULATION

Chairpersons: **F. Parthenakis** (Heraklion, GR), **C. Vlachopoulos** (Athens, GR)

Moderators: **G. Limongelli** (Naples, I), **C. Rapezzi** (Bologna, I)

08:00 a.m. **A. Torbicki** (Warsaw, PL)  
*How do I make the diagnosis of pulmonary hypertension and determine its cause?*

08:30 a.m. **E. Bossone** (Salerno, I)  
*How do I manage different types of pulmonary hypertension?*

#### AORTIC DISEASE

09:00 a.m. **E. Arbustini** (Pavia, I)  
*When should I consider a genetic test in patients with aortic dissection?*

09:20 a.m. **G. Teixidó** (Barcelona, E)  
*How do I make the clinical diagnosis of Marfan's syndrome?*

09:40 a.m. **R. Erbel** (Essen, D)  
*How do I prevent and manage vascular complications in connective vascular disorders?*

10:00 a.m. **Take Home Message / Discussion**

10:30 a.m. COFFEE BREAK

#### COMMON CONGENITAL ANOMALIES

Chairpersons: **K. Toutouzas** (Athens, GR), **A. Tzifa** (Athens, GR)

Moderators: **G. Athanassopoulos** (Athens, GR), **C. Rapezzi** (Bologna, I)

11:00 a.m. **S. Sharma** (London, UK)  
*When should I worry about anomalous coronary arteries?*

11:20 a.m. **G. Limongelli** (Naples, I)  
*How should I assess patients with bicuspid aortic valves?*

11:40 a.m. **J. Mogensen** (Odense, DK)  
*How do I diagnose left ventricular non-compaction?*

12:00 p.m. **B. Marino** (Rome, I)  
*Why should I worry about genetics in a patient with congenital heart disease?*

12:20 p.m. **Take Home Message / Discussion**

12:50 p.m. LUNCH

## Saturday, April 29<sup>th</sup> - Morning

NAXOS HALL

### TRACK FOUR: Muscle

#### HYPERTROPHIED HEARTS

Chairpersons: **G. Limongelli** (Naples, I), **D. Tousoulis** (Athens, GR)

Moderators: **J.R. Gimeno-Blanes** (Murcia, E), **A. Linhart** (Prague, CZ)

08:00 a.m. **I. Olivotto** (Florence, I)  
*What are the causes of a thick heart?*

08:20 a.m. **A. Keren** (Jerusalem, IL)  
*How do I assess the cause of symptoms in hypertrophic cardiomyopathy?*

08:40 a.m. **F. Cecchi** (Florence, I)  
*How do I manage left ventricular outflow tract obstruction?*

#### DILATED HEARTS

09:00 a.m. **P. Elliott** (London, UK)  
*When should I suspect a rare cause of systolic heart failure?*

09:20 a.m. **L. Monserrat** (La Coruña, E)  
*How does the treatment of genetic forms of dilated cardiomyopathy differ from consensus guidelines?*

09:40 a.m. **A. Anastasakis** (Athens, GR)  
*What is hypokinetic non-dilated cardiomyopathy?*

10:00 a.m. **Take Home Message / Discussion**

10:30 a.m. COFFEE BREAK

#### RARE HEARTS

Chairpersons: **M. Arad** (Ramat Gan, IL), **P. Nihoyannopoulos** (London, UK)

Moderators: **J.R. Gimeno-Blanes** (Murcia, E), **A. Torbicki** (Warsaw, PL)

11:00 a.m. **A. Keren** (Jerusalem, IL)  
*What is athletic cardiomyopathy?*

11:20 a.m. **P. Garcia-Pavia** (Madrid, E)  
*What is peripartum cardiomyopathy?*

11:40 a.m. **C. Basso** (Padua, I)  
*When should I suspect cardiac sarcoidosis?*

12:00 p.m. **G. Thiene** (Padua, I)  
*When should I suspect cardiac malignancy?*

12:20 p.m. **Take Home Message / Discussion**

12:50 p.m. LUNCH

**Saturday, April 29<sup>th</sup> - Afternoon**

ATHENS HALL

CORE SESSION (ALL ATTENDEES)

SESSION VI • DISEASE OF THE RIGHT VENTRICLE

Chairpersons: **J.R. Gimeno-Blanes** (Murcia, E), **K. Tsioufis** (Athens, GR)

02:00 p.m.	<b>P. Nihoyannopoulos</b> (London, UK) <i>How do I image the right ventricle?</i>
02:20 p.m.	<b>A. Tsatsopoulou</b> (Naxos, GR) <i>How do I diagnose and manage arrhythmogenic right ventricular cardiomyopathy?</i>
02:40 p.m.	<b>G. Sinagra</b> (Trieste, I) <i>Important mimics not to miss in suspected arrhythmogenic right ventricular cardiomyopathy?</i>

SESSION VII • LIVE DEMONSTRATION OF HEARTS WITH INTEGRATED CASE DEMONSTRATIONS

Chairpersons: **A. Linhart** (Prague, CZ), **C. Spiliopoulou** (Athens, GR)

Demonstrators: **C. Basso** (Padua, I), **G. Thiene** (Padua, I)

03:00 p.m.	<b>Live Demonstration</b>
04:00 p.m.	<b>Discussion</b>
04:30 p.m.	<b>P. Elliott</b> (London, UK) <i>Closing Summary</i>

# FACULTY LIST

**Aris Anastasakis** (Athens, Greece)

**Michael Arad** (Ramat Gan, Israel)

**Eloisa Arbustini** (Pavia, Italy)

**George Athanassopoulos** (Athens, Greece)

**Cristina Basso** (Padua, Italy)

**Jan Bogaert** (Leuven, Belgium)

**Martin Borggrefe** (Mannheim, Germany)

**Eduardo Bossone** (Salerno, Italy)

**Alida Caforio** (Padua, Italy)

**Paolo G. Camici** (Milan, Italy)

**Franco Cecchi** (Florence, Italy)

**Philippe Charron** (Paris, France)

**Lia Crotti** (Milan, Italy)

**Georgios Efthymiadis** (Thessaloniki, Greece)

**Perry Elliott** (London, United Kingdom)

**Raimund Erbel** (Essen, Germany)

**Dimitrios Farmakis** (Athens, Greece)

**Pablo Garcia-Pavia** (Madrid, Spain)

**Konstantinos Gatzoulis** (Athens, Greece)

**Dominique P. Germain** (Paris, France)

**Juan Ramon Gimeno-Blanes** (Murcia, Spain)

**Efstathios Iliodromitis** (Athens, Greece)

**Maria Kalantzi** (Athens, Greece)

**Demosthenes G. Katritsis** (Athens, Greece)

**Andre Keren** (Jerusalem, Israel)

**Pier Lambiase** (London, United Kingdom)

**Giuseppe Limongelli** (Naples, Italy)

**Ales Linhart** (Prague, Czech Republic)

**Bruno Marino** (Rome, Italy)

**William J. McKenna** (London, United Kingdom)

**Jens Mogensen** (Odense, Denmark)

**Lorenzo Monserrat** (La Coruña, Spain)

**Petros Nihoyannopoulos** (London, United Kingdom)

**Iacopo Olivotto** (Florence, Italy)

**Fragkiskos Parthenakis** (Heraklion, Greece)

**Alexandros Patrianakos** (Heraklion, Greece)

**Yigal Pinto** (Amsterdam, Netherland)

**Efstathia Prappa** (Athens, Greece)

**Claudio Rapezzi** (Bologna, Italy)

**Konstantinos Ritsatos** (Athens, Greece)

**Edward Rowland** (London, United Kingdom)

**Sanjay Sharma** (London, United Kingdom)

**Gianfranco Sinagra** (Trieste, Italy)

**Chara Spiliopoulou** (Athens, Greece)

**Petros Syrris** (London, United Kingdom)

**Gisela Teixidó** (Barcelona, Spain)

**Gaetano Thiene** (Padua, Italy)

**Adam Torbicki** (Warsaw, Poland)

**Dimitrios Tousoulis** (Athens, Greece)

**Konstantinos Toutouzas** (Athens, Greece)

**Filippos Triposkiadis** (Larissa, Greece)

**Adalena Tsatsopoulou** (Naxos, Greece)

**Konstantinos Tsioufis** (Athens, Greece)

**Afroditi Tzifa** (Athens, Greece)

**Charalambos Vlachopoulos** (Athens, Greece)

**Till Voigtländer** (Vienna, Austria)

# GENERAL INFORMATION

## MEETING VENUE

The venue for the Meeting will be “Zappeion Exhibition Hall”  
Leof. Vasilissis Olgas - Athens (Greece)

## SECRETARIAT DURING THE MEETING

The Secretariat will be open at the following times:

**Thursday,** April 27<sup>th</sup> 2017 - from 02:00 p.m. to 08:00 p.m.

**Friday,** April 28<sup>th</sup> 2017 - from 07:30 a.m. to 06:30 p.m.

**Saturday,** April 29<sup>th</sup> 2017 - from 07:30 a.m. to 05:00 p.m.

## OFFICIAL LANGUAGE

The official language of the Meeting will be English.

## EACCME ACCREDITATION

The ‘International Training Course on Rare & Inherited Cardiovascular Disease’ is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), [www.uems.net](http://www.uems.net).

The ‘International Training Course on Rare & Inherited Cardiovascular Disease’ is designated for a maximum of 15 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMAPRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at [www.ama-assn.org/go/internationalcme](http://www.ama-assn.org/go/internationalcme).

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.



# GENERAL INFORMATION

## REGISTRATION

Please register to [www.athenscardiovascularisease.com](http://www.athenscardiovascularisease.com) **within April 23<sup>rd</sup> 2017**.  
For more information feel free to contact:

**DueCi Promotion s.r.l.** - Phone +39 051 4841310 - Fax +39 051 247165  
Email: [fschiassi@duecipromotion.com](mailto:fschiassi@duecipromotion.com) - [afrignani@duecipromotion.com](mailto:afrignani@duecipromotion.com)

## TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections.  
A slide center with PC (Powerpoint for Windows) will be available for check and preview of presentations. It is essential that speakers take their presentation to the slide center at least one hour before the session starts.

**The slide center will be open at the following times:**

**Thursday,** April 27<sup>th</sup> 2017 - from 02:00 p.m. to 08:00 p.m.

**Friday,** April 28<sup>th</sup> 2017 - from 07:30 a.m. to 06:30 p.m.

**Saturday,** April 29<sup>th</sup> 2017 - from 07:30 a.m. to 05:00 p.m.

## LUNCHEES AND COFFEE BREAKS

Lunches and coffee breaks will be served in the Meeting area.







