

## RESPONSABILE SCIENTIFICO DEL CONVEGNO

Raffaele De Caterina (Pisa)

## DESTINATARI DELL'INIZIATIVA

L'evento è accreditato nel programma di Educazione Continua in Medicina con l'identificativo **661-453647** secondo le attuali disposizioni, per **100** partecipanti nella professione di **Medico Chirurgo** specialista in Anestesia e Rianimazione, Malattie metaboliche e diabetologia, Cardiologia, Cardiocirurgia, Chirurgia Toracica, Chirurgia Vascolare, Ematologia, Geriatria, Malattie dell'apparato respiratorio, Medicina e Chirurgia di Accettazione e di Urgenza, Allergologia ed immunologia clinica, Medicina Generale (medici di famiglia), Medicina Interna, Medicina Dello Sport e Reumatologia ed eroga **31 (trentuno)** crediti formativi per ogni corso al superamento del questionario di apprendimento ed al corretto espletamento di tutte le procedure amministrative.

**OBIETTIVO FORMATIVO:** documentazione clinica. percorsi clinico-assistenziali diagnostici e riabilitativi, profili di assistenza - profili di cura

**ORE FORMATIVE: 31**

## MODALITÀ D'ISCRIZIONE

Costo quota d'iscrizione (iva 22% inclusa): **500,00 Euro**

## SEGRETERIA ORGANIZZATIVA E PROVIDER ECM

### EXECUTIVE CONGRESS SRL

Via F. Puccinotti, 43 - 50129 Firenze

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## SEDE DEL CORSO

### Polo Didattico Monastero "Le Benedettine"

Piazza S. Paolo a Ripa d'Arno, Pisa

## RAZIONALE SCIENTIFICO:

The course is conceived as an intensive course (over five days) with a strong translational and multidisciplinary approach. It is oriented to provide state-of-the-art knowledge advances in major cardiovascular issues, from basic sciences to pathophysiological perspectives and clinical approaches, with special attention devoted to promote scientific thinking through interactive discussions between the Faculty and the participants.

Target groups have been traditionally mainly late undergraduate and early postgraduate students of Medicine and Life Sciences, PhD students and students in the early years of Postgraduate Medical Schools. This year, the course will be open to practicing physicians (mostly cardiologists), for a deep dive in the areas of the fastest development in research and innovation. The Course offers a unique opportunity for participants to be exposed, in a friendly atmosphere, to qualified local and external lecturers coming from prestigious Italian and foreign Institutions, addressing relevant clinical issues and emerging scientific topics in most aspects of cardiovascular medicine and pathophysiology.

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Congresso

# Hot Topics in Cardiovascular Medicine



Polo Didattico Monastero "Le Benedettine"  
Pisa, 21 - 25 Luglio 2025

## Monday July 21th

- 08:30** Participants' Registration  
**09:00** Introduction **Raffaele De Caterina**  
**09:15** The University of Pisa and its Internationalization Program **Filippo Giorgi**

### I SESSION- Principles of Cardiovascular Physiology and Pathophysiology

Chairmen: **Raffaele De Caterina, Carlo Palombo**

- 09:30** Myocardial metabolism in the health and disease **Giuseppe Rosano**  
**10:00** Left and right heart mechanics **Fabio Recchia**  
**10:30** Break  
**11:00** Large artery structure and function **Carlo Palombo**  
**11:30** Blood pressure variability: methodological aspects, pathophysiological and clinical relevance **Gianfranco Parati**  
**12:00** Discussion  
**12:30** Break

### II SESSION - Atherothrombosis and risk factors for cardiovascular disease

Chairmen: **Stefano Taddei, Agostino Virdis**

- 13:00** Atherothrombosis – a 2025 update **Gemma Vilahur**  
**14:45** Obesity, overweight, diabetes and cardiovascular risk **Andrea Natali**  
**15:30** Lifestyle interventions: the new frontier **Luigi Fontana**  
**16:00** Discussion  
**16:30** Break  
**16:45** Updates in arterial hypertension **Stefano Taddei**  
**17:15** Cardiovascular disease in Type 2 diabetes: how and when does it start?  
**Stefano Del Prato**  
**17:45** Current and Forthcoming Lipid-lowering therapies **Alberico Catapano**  
**18:15** Discussion  
**19:00** End of the First Day's Activities

## Tuesday July 22th

- 09:15** Introduction **Raffaele De Caterina**

### III SESSION- Myocardial ischemic syndromes – Pathophysiology and Endotypes

Chairmen: **Doralisa Morrone, Raffaele De Caterina**

- 09:30** Endothelial dysfunctions as the final common pathway of atherosclerotic vascular disease **Lorenzo Ghiadoni**  
**10:00** Principles of diagnosis and risk stratification of chronic ischemic heart disease  
**Danilo Neglia**  
**10:30** Polymorbidity and polypharmacy and frailty in cardiovascular disease  
**Andrea Ungar**  
**11:00** Discussion  
**11:30** Break  
**11:45** Myocardial infarction with non-obstructive coronary arteries **Doralisa Morrone**  
**12:15** Acute and non-acute myocardial ischemic syndromes – The need for a new classification  
**William E. Boden**  
**12:45** Discussion  
**13:15** Break

### IV SESSION - Congestion and Heart Failure

Chairmen: **Raffaele De Caterina, Luna Gargani, Pierpaolo Pellicori**

- 14:15** What is congestion and what is heart failure **John Cleland**  
**14:45** How to assess congestion at rest **Luna Gargani**  
**15:15** How to assess congestion during exercise **Nicola Riccardo Pugliese**  
**15:45** Congestion and assessment of fluid balance in the critically ill **Francesco Corradi**  
**16:15** Discussion  
**16:45** Break  
**17:00** Hypertrophic cardiomyopathy: new therapeutic horizons **Maurizio Pieroni**  
**17:30** Treating congestion: the old – diuretics – and the new -the sodium-glucose transporter 2 (SGLT2) inhibitors **Carmine Zoccali**  
**18:00** Treating congestion: beta-blockers, ACE-inhibitors, angiotensin receptor antagonist/neprilysin inhibitors, glucagon-like peptide-1 agonists, sodium guanylate cyclase stimulators **Alberto Giannoni**  
**18:30** Discussion  
**19:00** End of the Second Day's Activities

**Wednesday July 23th**

**09:15** Introduction **Raffaele De Caterina**

**V SESSION- Valvular heart disease – From diagnosis to treatment**

Chairmen: **Raffaele De Caterina, Marco De Carlo**

**09:30** Aortic stenosis and transcatheter aortic valve implantation (TAVI): state of the art **Carlo Di Mario**

**10:00** Transcatheter aortic valve implantation: a glimpse to the future  
**Alessandro Sticchi**

**10:30** Mitral transcatheter interventions: state of the art **Tullio Palmerini**

**11:00** Discussion

**11:30** Break

**11:45** Tricuspid transcatheter interventions **Marco De Carlo**

**12:15** Cardiovascular Imaging to Guide Interventions in Valvular Heart Disease  
**Cristina Giannini, Matteo Mazzola**

**12:45** Medical therapy and surgery for mitral and tricuspid regurgitation  
**Riccardo Liga**

**13:15** Discussion

**13:45** End of Third Day's Activities



**Thursday, July 24th**

**09:15** Introduction **Raffaele De Caterina and Emanuele Neri**

**VI SESSION- Advanced cardiovascular imaging**

Chairmen: **Raffaele De Caterina, Emanuele Neri**

**09:30** Advanced imaging of vascular disease **Gabriele Masini**

**10:00** Cardiac and lung ultrasound **Luna Gargani**

**10:30** Discussion

**11:00** Break

**11:15** Cardiac computed tomography **Gianluca Pontone**

**11:45** Nuclear cardiology Duccio Volterrani and **Alessia Gimelli**

**12:15** Cardiac magnetic resonance imaging **Giovanni Donato Aquaro**

**12:45** Discussion

**13:15** Break

**VII SESSION - Electrophysiology and Arrhythmias**

Chairmen: **Marisa Carluccio, Raffaele De Caterina, Gino Grifoni, Giulio Zucchelli**

**14:15** The electrophysiology study? How to find heart rhythm abnormalities  
**Raffaele De Lucia**

**14:45** Sudden death and cardiomyopathies: How to identify patients at risk  
**Stefano Viani**

**15:15** Treatments for ventricular tachycardias **Giulio Zucchelli**

**15:45** Atrial cardiomyopathy: cause or bystander for future stroke? **Lin Yee Chen**

**16:15** Discussion

**16:45** Break

**17:00** Atrial fibrillation: pathogenesis-guided anti-arrhythmic therapy **Luca Segreti**

**17:30** Atrial fibrillation ablation: principles, techniques and results **Andrea Di Cori**

**18:00** Current and forthcoming antithrombotic approaches **Raffaele De Caterina**

**18:30** Discussion

**19:00** End of the Fourth Day's Activities



## Friday July 25th

### VIII SESSION - Pulmonary Hypertension

Chairmen: **Laura Carrozzi, Raffaele De Caterina, Rosalinda Madonna**

- 09:00** Introduction and aims **Raffaele De Caterina, Laura Carrozzi, Rosalinda Madonna**
- 09:15** Pulmonary arterial hypertension: Definitions, classifications, diagnosis, risk stratification and treatment **Pietro Ameri**
- 09:45** Right heart catheterization and provocative tests for pulmonary hypertension (theoretical-practical lesson) **Michele D'Alto**
- 10:15** Pathophysiology of the right ventricle and pulmonary-vascular interactions **Fabio Guarracino**
- 10:45** Discussion
- 11:00** Break
- 11:15** Pulmonary hypertension from left heart failure: pathophysiology and therapy **Marco Guazzi**
- 11:45** Pulmonary arterial hypertension with rheumatologic diseases **Alessandra della Rossa**
- 12:15** Pulmonary hypertension secondary to lung disease **Roberta Pancani**
- 12:45** Chronic thromboembolic pulmonary disease and hypertension **Rosalinda Madonna**
- 13:15** Discussion
- 13:30** Completion of the ECM Questionnaire
- 13:45** Discussion of the Results of the Assessment Tests
- 14:00** Conclusion of Activities

## Faculty

Giovanni Donato Aquaro (Pisa)  
Pietro Ameri (Genova)  
William Edward Boden (Boston)  
Marisa Carluccio (Pisa)  
Laura Carrozzi (Pisa)  
Alberico Catapano (Milano)  
Lin Yee Chen (Minnesota)  
John Cleland (Glasgow)  
Francesco Corradi (Pisa)  
Michele D'alto (Napoli)  
Marco De Carlo (Pisa)  
Stefano Del Prato (Pisa)  
Raffaele De Caterina (Pisa)  
Raffaele De Lucia (Pisa)  
Alessandra Della Rossa (Pisa)  
Andrea Di Cori (Pisa)  
Carlo Di Mario (Firenze)  
Luigi Fontana (Sydney)  
Luna Gargani (Pisa)  
Lorenzo Ghiadoni (Pisa)  
Cristina Giannini (Pisa)  
Alberto Giannoni (Pisa)  
Alessia Gimelli (Pisa)  
Filippo Giorgi (Pisa)  
Gino Grifoni (Pisa)  
Fabio Guarracino (Pisa)  
Marco Guazzi (Milano)  
Riccardo Liga (Pisa)

Rosalinda Madonna (Pisa)  
Gabriele Masini (Pisa)  
Matteo Mazzola (Pisa)  
Doralisa Morrone (Pisa)  
Andrea Natali (Pisa)  
Danilo Neglia (Pisa)  
Emanuele Neri (Pisa)  
Tullio Palmerini (Bologna)  
Carlo Palombo (Pisa)  
Roberta Pancani (Pisa)  
Gianfranco Parati (Milano)  
Pierpaolo Pellicori (Glasgow)  
Maurizio Pieroni (Firenze)  
Gianluca Pontone (Milano)  
Nicola Riccardo Pugliese (Pisa)  
Fabio Anastasio Recchia (Pisa)  
Giuseppe Massimo Claudio Rosano (Roma)  
Luca Segreti (Pisa)  
Alessandro Sticchi (Pisa)  
Stefano Taddei (Pisa)  
Andrea Ungar (Firenze)  
Stefano Viani (Pisa)  
Gemma Vilahur (Barcellona)  
Agostino Virdis (Pisa)  
Duccio Volterrani (Pisa)  
Carmine Zoccali (Pisa)  
Giulio Zucchelli (Pisa)