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FONDAZIONE  
MENARINI



# MASTERCLASS FONDAZIONE MENARINI

Cardiovascular Risk Assessment, Big Data, and AI:  
A Hands-On Cardiovascular Risk Workshop



[WWW.FONDAZIONE-MENARINI.COM](http://WWW.FONDAZIONE-MENARINI.COM)

3<sup>rd</sup>-4<sup>th</sup> October, 2025 | Auditorium Fondazione Menarini, Fiesole

## **RATIONALE**

Atherosclerotic cardiovascular disease (ASCVD) remains the leading global cause of death, despite major advances in prevention and therapy. Traditional risk prediction models, derived from population cohorts and focused on a limited set of classical risk factors, provide useful estimates at the population level but often fall short in guiding individualised prevention. They may misclassify risk across different ages, sexes, ethnicities, and genetic backgrounds, leaving a substantial residual burden of disease. Today, the availability of large-scale biobanks, electronic health records, advanced imaging, and multi-omics data is transforming our ability to assess cardiovascular risk. The integration of these resources with artificial intelligence (AI) and machine learning opens new horizons for precision prevention. These approaches can capture complex interactions between biological, environmental, and behavioural factors, offering a more accurate and personalised risk assessment.

However, challenges remain: the interpretability of AI-driven models, their validation across diverse populations, and their safe integration into clinical workflows require careful consideration.

This workshop in Fiesole will combine plenary lectures with hands-on sessions, providing participants with both conceptual understanding and practical skills. The aim is to empower clinicians and researchers to critically evaluate and apply big data and AI tools, bridging cardiology, data science, and public health to improve cardiovascular outcomes.

**Alberico L. Catapano**

**PRESIDENT OF THE MEETING:**

**Alberico L. Catapano**

Professor, Università degli studi di Milano e Multimedia IRCCS  
Milan, IT

**CO-ORGANIZED BY:**



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**SCIENTIFIC SECRETARIAT**

**HINOVIA EVENTS S.r.l.**

Via Guelfa, 114 - 50129 Firenze

[www.hinovia.com](http://www.hinovia.com)

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

PROGRAMME

THURSDAY , 2<sup>ND</sup> OCTOBER

## THURSDAY 2<sup>ND</sup> OCTOBER 2025

06.00 p.m. - 08.00 p.m. Faculty Board

## FRIDAY 3<sup>RD</sup> OCTOBER 2025 - MORNING

08.15 a.m. - 08.30 a.m. Welcome and Greetings  
President of the Meeting - **A.L. Catapano** (Milan, IT)  
Fondazione Menarini - **G. Caracciolo** (Florence, IT)

### SESSION I - MORNING PLENARY

08.30 a.m. - 09.15 a.m. What the 2023 ESC Guidelines Say About  
Cardiovascular Prevention  
**A. L. Catapano** (Milan, IT)

09.15 a.m. - 10.00 a.m. Artificial Intelligence in Cardiovascular Medicine  
**T. F. Lüscher** (London, UK) 

10.00 a.m. - 10.15 a.m. *Coffee & networking break*

10.15 a.m. - 11.00 a.m. AI to Guide Cardiovascular Risk Assessment  
**J. Kelleher** (Dublin, IE)

11.00 a.m. - 11.45 a.m. AI & Network Medicine: Path to Precision Care  
**P. Parini** (Stockholm, SE)

11.45 a.m. - 12.30 p.m. AI for Health: Applications to Cardiology & CVD  
**M. Chierici** (Trento, IT), **G. Jurman** (Trento, IT)

12.30 p.m. - 02.00 p.m. *Lunch*

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

PROGRAMME

FRIDAY, 3<sup>RD</sup> OCTOBER

## FRIDAY 3<sup>RD</sup> OCTOBER 2025 - AFTERNOON

### SESSION II - HANDS-ON WORKSHOP

Exploring Databases & Datasets

**M. Chierici** (Trento, IT), **G. Jurman** (Trento, IT),  
**M. Moroni** (Trento, IT)

- |                         |   |
|-------------------------|---|
| 02.00 p.m. - 02.10 p.m. | Intro & paper overview (FBK facilitators)                                   |
| 02.10 p.m. - 04.15 p.m. | Break out work in 5 groups (≈5 pax) on assigned paper + 6 guiding questions |
| 04.15 p.m. - 04.30 p.m. | <i>Coffee &amp; networking break</i>  |
| 04.30 p.m. - 06.00 p.m. | Plenary: group spokespeople present; moderated risk pattern discussion      |

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

PROGRAMME

SATURDAY, 4<sup>TH</sup> OCTOBER

## SATURDAY 4<sup>TH</sup> OCTOBER 2025 - MORNING


### SESSION III - THEMATIC BREAK OUT

AI Solutions & Risk Assessment in Cardiology  
**M. Chierici** (Trento, IT), **M. Moroni** (Trento, IT)

- 08.30 a.m. - 08.40 a.m. Previous Day Recap
- 08.40 a.m. - 11.00 a.m. Group discussions continue (same 6 questions, dataset analysis)
- 11.00 a.m. - 11.10 a.m. *Coffee & networking break*
- 11.10 a.m. - 12.30 p.m. Plenary synthesis: recurring themes, divergences, risk patterns
- 12.30 p.m. - 01.00 p.m. Closing remarks & faculty wrap up  
**All faculty**
- 01.00 p.m. - 02.00 p.m. *Lunch*
- 02.00 p.m. - 03.30 p.m. Post meeting discussions  
**All participants**
- 03.30 p.m. - 03.45 p.m. Survey Event: Satisfaction survey with certificate

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

## FACULTY

<b>Alberico L.Catapano</b>	Professor, Università degli studi di Milano e Multimedia IRCCS Milan, IT
<b>Marco Chierici</b>	Data Science for Health (DSH) Research Unit, Fondazione Bruno Kessler Trento, IT
<b>Giuseppe Jurman</b>	Associate Professor of Humanitas University, Head of Data Science for Health (DSH) Research Unit, Fondazione Bruno Kessler Trento, IT
<b>John Kelleher</b>	Academic Computer Scientist, Trinity College Dublin, IE
<b>Thomas F. Lüscher</b> 	Professor of Cardiology, Director of Research, Education & Development, President of the European Society of Cardiology, Royal Brompton Hospital London, UK
<b>Moroni Monica</b>	Data Science for Health (DSH) Research Unit, Fondazione Bruno Kessler Trento, IT
<b>Paolo Parini</b>	Professor, Cardio Metabolic Unit, Department of Laboratory Medicine, and Department of Medicine, Karolinska Institutet at Huddinge University Hospital Theme Inflammation and Ageing, Karolinska University Stockholm, SE

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

## ELENCO DEI PARTECIPANTI

<b>Roselin Arena</b>	Catania
<b>Antonia Ascrizzi</b>	Napoli
<b>Vanessa Bianconi</b>	Perugia
<b>Fabiola Castaldo</b>	Ferrara
<b>Manuela Casula</b>	Milano
<b>Rosa Paola Cerra</b>	Lamezia terme
<b>Alessia Cipollone</b>	Pescara
<b>Chiara Comi</b>	Milano
<b>Sara D'Arnese</b>	Foggia
<b>Alessia Di Costanzo</b>	Roma
<b>Gianluca Di Rosa</b>	Palermo
<b>Martina Ferrandino</b>	Napoli
<b>Filippo Figorilli</b>	Perugia
<b>Federica Furia</b>	Palermo
<b>Alessandro Gezzi</b>	Ancona
<b>Claudia Giglione</b>	Milano
<b>Marta Iaia</b>	Milano
<b>Diego LaLicata</b>	Palermo



# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

## ELENCO DEI PARTECIPANTI

<b>Giuseppe Lentini</b>	Palermo
<b>Ilenia Minicocci</b>	Roma
<b>Elena Olmastroni</b>	Milano
<b>Chiara Pavanello</b>	Milano
<b>Carla Polizzotto</b>	Palermo
<b>Camilla Portinari</b>	Padova
<b>Agata Puzzovivo</b>	Bari
<b>Rossella Quarta</b>	Cosenza
<b>Riccardo Mattia Ricciardi</b>	Pescara
<b>Riccardo Rizzo</b>	Milano
<b>Stefano Scotti</b>	Milano
<b>Riccardo Spaggiari</b>	Ferrara
<b>Sofia Maria Tomasi</b>	Catania
<b>Daniele Tramontano</b>	Roma

# Cardiovascular Risk Assessment, Big Data, and AI: A Hands-On Cardiovascular Risk Workshop

## GENERAL INFORMATION

### VENUE

AUDITORIUM FONDAZIONE MENARINI, FIESOLE  
PIAZZA G. GARIBALDI, 30 / FIESOLE (FI)

### OFFICIAL LANGUAGE

The official language of the meeting is English. Simultaneous translation will not be provided.

### REGISTRATION HOURS FOR RESIDENTIAL EVENT

Attendance at the meeting is free.

For more information and to register please visit the following website:

[www.en.fondazione-menarini.it/Home](http://www.en.fondazione-menarini.it/Home)

Friday, 3<sup>rd</sup> October 2025: 08:15 a.m. - 06.30 p.m.

Saturday, 4<sup>th</sup> October 2025: 08:30 a.m. - 03.30 p.m.

Please note that times are expressed in Local time

### FACULTY SLIDE CENTRE OPENING HOURS

The center will be open at the following times:

Friday, 3<sup>rd</sup> October 2025: 08:15 a.m. - 06.30 p.m.

Saturday, 4<sup>th</sup> October 2025: 08:30 a.m. - 03.30 p.m.

Please note that times are expressed in Local time

### TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections.

A Slide Center with PCs (Windows and Macintosh operating systems) will be available for

Speakers to preview and finalize their presentations. Speakers are kindly requested to submit their presentations to the Slide Center technicians at least one hour before their talks.

### LUNCH AND COFFEE BREAKS

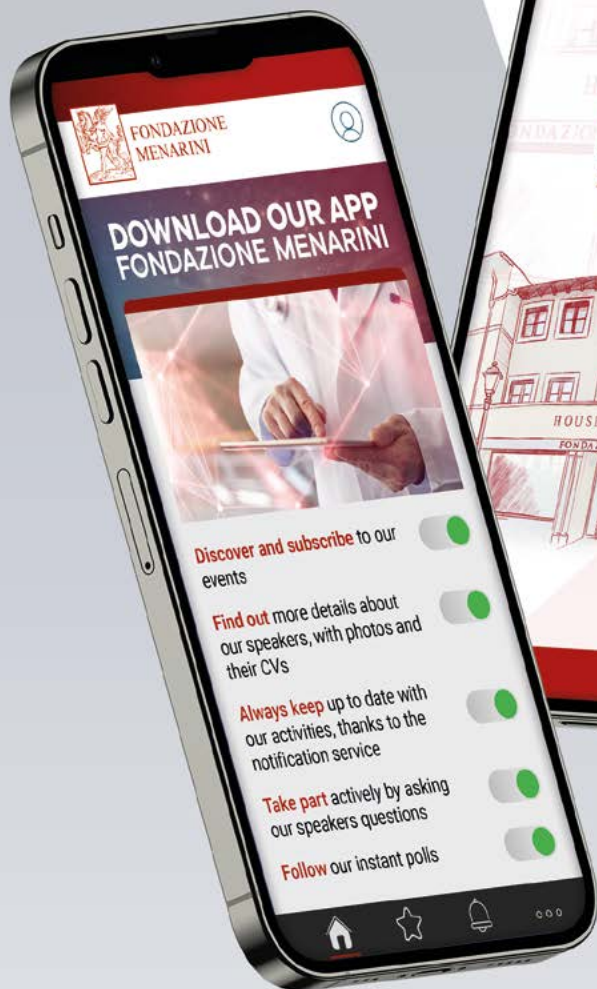
Lunch and coffee breaks will be served in the meeting area.

### ATTENDANCE CERTIFICATE:

The attendance certificate will be provided via email after the meeting, upon request.



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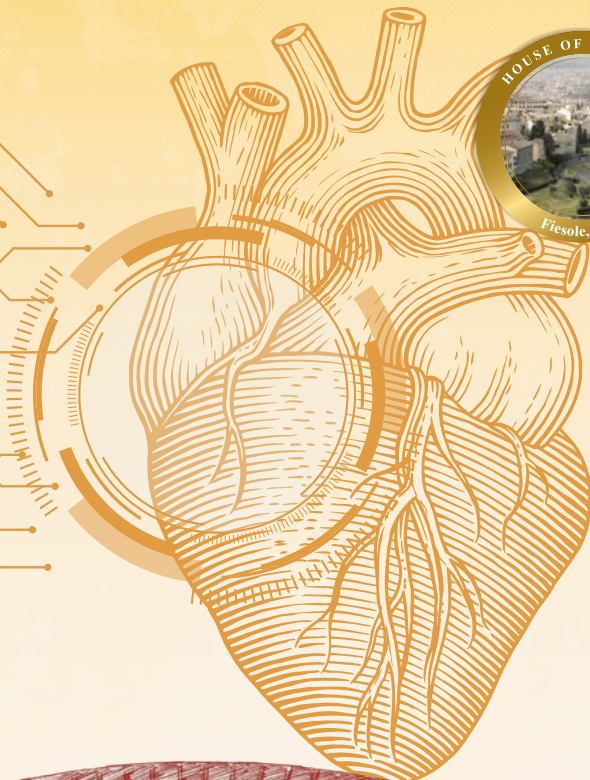
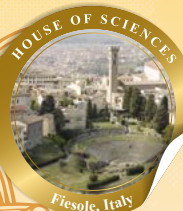
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All slides and presentations are available on our website 15 days after the event.

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