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THE FOUNDATION FOR
GENDER-SPECIFIC MEDICINE



UNIVERSITY OF CENTRAL FLORIDA
College of Medicine



SOVARIS AI



Ospedale
Isola
Tiberina

GEMELLI ISOLA



Artificial Intelligence in Medicine

VENUE: Aula Magna - Ospedale Isola Tiberina - Gemelli Isola,
Via di Ponte Quattro Capi 39, 00186 Roma.

WWW.FONDAZIONE-MENARINI.COM

9th - 10th SEPTEMBER 2025

INTRODUCTION

In a remarkably short period of time, Artificial Intelligence (AI) has created what many have considered the Fourth Industrial Revolution. It has permeated virtually every area of human life. Medicine is no exception, and AI has proven a powerful aid to public health and patient care from governments and major institutions to the individual physician's office. AI simplifies what were once onerous administrative tasks but more importantly for the purposes of the practicing health care worker reviews the pathophysiology of an individual patient with remarkable efficiency, using evidence-based observations to create a helpful dialogue with the physician that suggests diagnosis and recommends therapy.

This symposium is intended for the clinician. Accordingly, it is prefaced with initial sessions that present an overview of the history, uses and limitations of AI in medicine. Subsequent presentations will provide detailed examples of how it is being used in medical subspecialties. A consideration of the principles for assessing the validity and quality of AI tools selected for clinical care will stress the crucial importance of the content and quality of the databases on which their conclusions and recommendations are based. A final interactive session with the audience will demonstrate the use of large language models (LLM) in actual cases.

Ultimately the symposium will provide new insight into which AI tools, based on an analysis of culturally relevant observations made on an appropriate cadre of subjects, are optimally useful for the unique requirements of the individual clinician.

Marianne Legato

CO-PRESIDENTS OF THE MEETING

Jeffrey Drazen
Marianne Legato
Michael A. Schmidt

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SCIENTIFIC AND ORGANIZING SECRETARIAT

Hinovia Events srl
Via Guelfa, 114
50129 Florence (Italy)

TUESDAY, 9th SEPTEMBER 2025 - MORNING

Greetings

- Chairpersons: **J. Drazen** (Boston, US),
M. Legato (New York, US), **M. A. Schmidt** (Denver, US)
- 09.00 a.m. - 09.10 a.m. Welcome and overview
M. Legato (New York, US)
- 09.10 a.m. - 09.20 a.m. **Fondazione Menarini**
S. Del Prato - President, Fondazione Menarini
(Florence, IT)
G. Caracciolo - Director of Scientific and Medical
Affairs, Fondazione Menarini (Florence, IT)
- 09.20 a.m. - 09.30 a.m. **Gemelli Isola Hospital**
S. Alfieri - Director of Scientific Affairs
G. Arcuri - Hospital Director
A. Piacentini - Chief Executive Officer

SESSION I - OVERVIEW

- Chairperson: **I. Kohane** (Boston, US)
- 09.30 a.m. - 10.00 a.m. The History of AI in Medicine
P. Szolovits (Cambridge, UK)
- 10.00 a.m. - 10.30 a.m. Classic AI Models in Medicine
A. Beam (Boston, US)
- 10.30 a.m. - 11.00 a.m. The Application of Large Language Models to Medical
Practice
P. Lee (Redmond, US)
- 11.00 a.m. - 11.30 a.m. Discussion
- 11.30 a.m. - 11.50 a.m. *Coffee break*

Artificial Intelligence in Medicine

PROGRAMME

TUESDAY, 9th SEPTEMBER 2025

11.50 a.m. - 12.20 p.m. Introduction: **G. Caracciolo** (Florence, IT),
M. A. Schmidt (Denver, US)
Special lecture: Discovery of the role of NO in human
biology
L.J. Ignarro (Los Angeles, US)

SESSION II - AI IN HEALTHCARE

12.20 p.m. - 12.50 p.m. Chairperson: **C. Haug** (Oslo, NO)
Challenges and Opportunities for AI in Medicine and
Healthcare
C. Haug (Oslo, NO)

12.50 p.m. - 01.20 p.m. AI and Patient Safety in Public Health
K. McDonald (Baltimore, US)

01.20 p.m. - 01.50 p.m. Evaluation of AI solutions in health care organizations—the
OPTICA tool
N. Dagan (Be'er Sheva, IL)

01.50 p.m. - 02.50 p.m. *Lunch*

TUESDAY, 9th SEPTEMBER 2025 - AFTERNOON

SESSION III - CLINICAL SESSIONS

Chairperson: **F. Crea** (Rome, IT)

- 02.50 p.m. - 03.20 p.m. Artificial Intelligence: Revolutionizing Cardiology with Large Language Models
F. Asselbergs (Amsterdam, NL)
- 03.20 p.m. - 03.50 p.m. Multimodal Federated Learning & Image Synthesis In Cardiovascular Medicine
S. Engelhardt (Heidelberg, DE)
- 03.50 p.m. - 04.20 p.m. Digital ECG and Echo Biomarkers: Unlocking Precision Diagnosis and Prognosis
E. Oikonomou (New Haven, US)
- 04.20 p.m. - 04.50 p.m. Biodigital Twins: Applications in Alzheimer's Disease and Cardiology
T. Paterson (San Francisco, US)
- 04.50 p.m. - 05.10 p.m. *Coffee Break*

SESSION IV - CLINICAL SESSIONS

Chairpersons: **L. Fabbri** (Ferrara, IT),
K. F. Rabe (Grosshansdorf, DE)

- 05.10 p.m. - 05.40 p.m. Artificial Intelligence in Chronic Obstructive Pulmonary Disease
A. Agusti (Barcelona, ES)
- 05.40 p.m. - 06.10 p.m. Artificial Intelligence in Severe Asthma
S. Wenzel (Pittsburgh, US)
- 06.10 p.m. - 06.40 p.m. Artificial Intelligence in Intensive Care
L. Celi (Boston, US)
- 06.40 p.m. - 07.00 p.m. General Discussion

WEDNESDAY, 10th SEPTEMBER 2025 - MORNING

SESSION V - CLINICAL SESSIONS

Chairperson: **S. Del Prato** (Pisa, IT)

- 09.00 a.m. - 09.30 a.m. Implications of Using AI-CDSS in Diabetes
A. Galderisi (New Haven, US)
- 09.30 a.m. - 10.00 a.m. What Should AI-CDSS Deliver in Diabetes Care?
P. Schwarz (Dresden, DE)
- 10.00 a.m. - 10.30 a.m. Can Type 1 Diabetes be Successfully Managed by AI?
B. Kovatchev (Charlottesville, US)
- 10.30 a.m. - 10.50 a.m. *Coffee Break*
- Chairperson: **J. Drazen** (Boston, US)
- 10.50 a.m. - 11.20 a.m. AI Use in Dermatology
R. Daneshjou (Stanford, US)
- 11.20 a.m. - 11.50 a.m. Democratizing Obstetric Ultrasound with AI
J. Stringer (Chapel Hill, US)
- 11.50 a.m. - 12.20 p.m. AI in Radiology
P. Rajpurkar (Boston, US)
- 12.20 p.m. - 01.20 p.m. *Lunch*

WEDNESDAY, 10th SEPTEMBER 2025 - AFTERNOON

SESSION VI - CLINICAL SESSIONS

Chairperson: **M. A. Schmidt** (Denver, US)

- 01.20 p.m. - 01.50 p.m. Use of AI in Epilepsy
E. Donner (Toronto, CA)
- 01.50 p.m. - 02.20 p.m. AI in Depression
P. Pedrelli (Boston, US)
- 02.20 p.m. - 02.50 p.m. The Role of AI in the Diagnosis and Treatment of Breast Malignancy
M. Lombardi Plasilova (New York, US)
- 02.50 p.m. - 03.10 p.m. *Coffee break*
- 03.10 p.m. - 03.40 p.m. Medical Artificial Intelligence and Human Values
A. Manrai (Boston, US)
- 03.40 p.m. - 04.10 p.m. AI and Gender
M. Legato (New York, US)
- 04.10 p.m. - 04.40 p.m. Biodigital Twins: A Tool for Research, Prediction, Training and Clinical Decision Support
M. A. Schmidt (Denver, US)
- 04.40 p.m. - 05.10 p.m. General discussion
Live demonstration of LLM (two cases)
J. Drazen (Boston, US)
R. E. Abdalnour (Boston, US)

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FACULTY

Abdulnour, Raja-Elie	Editor-in-Chief, NEJM Journal Watch Editor, Clinical Development and AI Innovation, NEJM Group, Boston, US
Agusti, Alvar	Professor of Medicine University of Barcelona Barcelona, Spain
Alfieri, Sergio	Full Professor, Scientific Director, Isola Tiberina Hospital – Gemelli Isola, Rome, IT
Arcuri, Giovanni	Hospital Director, Isola Tiberina Hospital – Gemelli Isola, Rome, IT
Asselbergs, Folkert	Chair, Amsterdam Heart Center, Department of Cardiology. Amsterdam, Netherlands
Beam, Andrew	Assistant professor in the Department of Epidemiology at the Harvard TH Chan School of Public Health Boston, US
Celi, Leo Antony	Associate Professor of Medicine, Harvard Medical School Senior Research Scientist, Massachusetts Institute of Technology Boston, US
Crea, Filippo	Editor in Chief European Heart Journal Prof/Chair Cardiology Gemelli Isola Hospital Rome Rome, Italy
Dagan, Noa	Head of Clinical AI & Research, Clalit Innovation, Clalit Health Services Associate Professor, Engineering Faculty, Ben-Gurion University Tel Aviv, Israel

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Daneshjou, Roxana	Assistant Professor of Biomedical Data Science and of Dermatology, Department of Biomedical Data Science, Stanford School of Medicine Stanford, US
Del Prato, Stefano	President - Fondazione Menarini President - European Diabetes Forum Professor of Endocrinology Affiliate Professor Sant'Anna School of Advanced Studies Ospedale Santa Chiara - Clinica Medica Pisa, Italy
Donner, Elizabeth	Head, Division of Neurology, The Hospital for Sick Children Co-Lead, Garry Hurvitz Centre for Brain & Mental Health Bloorview Children's Hospital Chair in Paediatric Neuroscience Professor of Paediatrics, Temerty Faculty of Medicine, University of Toronto Toronto, Canada
Drazen, Jeffrey	Distinguished Parker B. Francis Professor Medicine, Harvard Medical School Senior Physician, Brigham and Womens' Hospital Editor, New England Journal of Medicine (NEJM) Group Boston, US
Engelhardt, Sandy	Jun. Prof. Dr. Department of Cardiology, Angiology, and Pneumology, Heidelberg University Hospital, Heidelberg, Germany
Fabbri, Leonardo	Eminent Scholar University of Ferrara Ferrara, Italy

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Galderisi, Alfonso	Associate Professor of Pediatrics, Department of Pediatrics, Yale University New Haven, US
Haug, Charlotte	Adjunct Affiliate at the Center for Health Policy and the Department of Health Policy, Executive Editor of NEJM AI Oslo, Norway
Ignarro, Louis Joseph	Nobel Prize Laureate in Physiology or Medicine 1998 University of California, School of Medicine, Department of Molecular and Medical Pharmacology Los Angeles, US
Kohane, Isaac	Editor in chief of NEJM AI Marion V. Nelson Professor and Chair, Department of Biomedical Informatics, Harvard Medical School Boston, US
Kovatchev, Boris	Madge M Jones Professor of Diabetes Founding Director, Center for Diabetes Technology School of Medicine and School of Data Science University of Virginia Fellow, National Academy of Inventors Charlottesville, US
Lee, Peter	President of Microsoft Research and Incubations Redmond, US
Legato, Marianne	M.D., Ph.D. (hon. c.), F.A.C.P Emerita Professor of Clinical Medicine, Columbia University Adjunct Professor of Medicine, Johns Hopkins New York, US

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Lombardi Plasilova, Magdalena	Associate Professor of Clinical Surgery, Oncoplastic Breast Surgery, Weill Cornell Graduate School of Medical Sciences, New York (US)
Manrai, Arjun	Assistant Professor of Biomedical Informatics, Harvard Medical School Boston, US
McDonald, Kathryn	Bloomberg Distinguished Professor of Health Systems, Quality and Safety, The Johns Hopkins University, Baltimore, US
Oikonomou, Evangelos	Section of Cardiovascular Medicine, Department of Internal Medicine Yale School of Medicine New Haven, US
Paterson, Thomas	President and CEO Embody Biosciences, Inc San Francisco, US
Pedrelli, Paola	Associate Director, Depression Clinical Research Program Associate Professor, Harvard Medical School Massachusetts General Hospital Boston, US
Piacentini, Andrea	Chief Executive Officer (CEO), Isola Tiberina Hospital – Gemelli Isola, Rome, IT
Rabe, Klaus Friedrich	Director LungenClinic Grosshansdorf Grosshansdorf, DE
Rajpurkar, Pranav	Assistant Professor of Biomedical Informatics, Harvard Medical School Boston, US

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Schmidt, Michael Arthur	CEO & Chief Scientific Officer, Sovaris Aerospace Denver Professor of Aerospace Medicine, University of Central Florida College of Medicine Orlando, US
Schwarz, Peter	Prof. Dr. med. habil. Peter E. H. Schwarz, MBA President of the International Diabetes Federation (IDF) Department of Medicine III, Prevention and Care of Diabetes University of Dresden Dresden, Germany
Stringer, Jeffrey	Clarke-Pearson Distinguished Professor of Obstetrics and Gynecology University of North Carolina School of Medicine Director, UNC Global Women's Health Chapel Hill, US
Szolovits, Peter	Prof. of Computer Science and Engineering Prof. of Health Sciences and Technology Computer Science and Artificial Intelligence Laboratory Massachusetts Institute of Technology, Cambridge Boston, US
Wenzel, Sally	Chair Department of Environmental and Occupational Health SPH Professor of Medicine and Immunology University of Pittsburgh Pittsburgh, US

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REGISTRATION - HYBRID EVENT

VIA WEBSITE AND/OR APP - HYBRID EVENT

Subscription to the Reserved Area and to the Event of your interest is required.

REGISTRATION IS FREE

RESIDENTIAL EVENT

Via website www.fondazione-menarini.com

IF YOU ARE ALREADY A SUBSCRIBER TO THE FONDAZIONE MENARINI RESERVED AREA

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3) Fill in all the mandatory fields and complete the registration, click on SIGN UP.

Wait for the confirmation, check your email and activate your account by clicking on the link in the email we sent you and then click on “GO TO SIGN IN”. Once you verify your account via email, return to the home page to log into the reserved area.

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REGISTRATION - LIVE STREAMING

LIVE STREAMING

Via website www.fondazione-menarini.com

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REGISTRATION - FONDAZIONE APP



VIA FONDAZIONE MENARINI APP

Download the APP of Fondazione Menarini, click here or scan the QR CODE:

www.fondazione-menarini.com/en/app-fondazione-menarini.html

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Please feel free to contact us if you need any further information or require any assistance, by clicking on the link below:

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GENERAL INFORMATION

VENUE

Aula Magna - Ospedale Isola Tiberina - Gemelli Isola,
Via di Ponte Quattro Capi 39, 00186 Roma.

OFFICIAL LANGUAGE

The official language of the meeting is English.

REGISTRATION HOURS FOR RESIDENTIAL EVENT

Attendance at the meeting is free.

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

<https://fondazione-menarini.com/en.html>

Tuesday, 9th September 2025: 09:00 a.m. - 07.00 p.m.

Wednesday, 10th September 2025: 09:00 a.m. - 05.10 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:

Tuesday, 9th September 2025: 09:00 a.m. - 06.40 p.m.

Wednesday, 10th September 2025: 09:00 a.m. - 05.50 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.

NOTES

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

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