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THE FOUNDATION FOR
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UNIVERSITY OF CENTRAL FLORIDA
College of Medicine



SOVARIS AI



Ospedale
Isola
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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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Centro Direzionale Milanofiori
20089 Rozzano (Milan, Italy)
Edificio L – Strada 6
Phone: +39 02 55308110 | Fax: +39 02 55305739
milan@fondazione-menarini.it
www.fondazione-menarini.com

SCIENTIFIC SECRETARIAT

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

Artificial Intelligence in Medicine

PROGRAMME

TUESDAY, 9th SEPTEMBER 2025

TUESDAY, 9th SEPTEMBER 2025 - MORNING

- Chairpersons: **J. Drazen** (Boston, US),
M. Legato (New York, US), **M. A. Schmidt** (Denver, US)
- 09.00 a.m. - 09.15 a.m. Welcome and overview
M. Legato (New York, US)
- 09.15 a.m. - 09.30 a.m. **Greetings**
S. Del Prato - President, Fondazione Menarini (Florence, IT)
G. Caracciolo - Director of Scientific and Medical Affairs, Fondazione Menarini (Florence, IT)

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*

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

Artificial Intelligence in Medicine

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TUESDAY, 9th SEPTEMBER 2025

SESSION II - AI IN HEALTHCARE

Chairperson: **C. Haug** (Oslo, NO)

- 12.20 p.m. - 12.50 p.m. 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*

Artificial Intelligence in Medicine

PROGRAMME

WEDNESDAY, 10th SEPTEMBER 2025

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)

Artificial Intelligence in Medicine

PROGRAMME

WEDNESDAY, 10th SEPTEMBER 2025

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. Abdulnour (Boston, US)

Artificial Intelligence in Medicine

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
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
Daneshjou, Roxana	Assistant Professor of Biomedical Data Science and of Dermatology, Department of Biomedical Data Science, Stanford School of Medicine Stanford, US

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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

Galderisi, Alfonso

Associate Professor of Pediatrics,
Department of Pediatrics,
Yale University
New Haven, US

Artificial Intelligence in Medicine

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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
Lombardi Plasilova, Magdalena	Associate Professor of Clinical Surgery, Oncoplastic Breast Surgery, Weill Cornell Graduate School of Medical Sciences, New York (US)

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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
Rabe, Klaus Friedrich	Director LungenClinic Grosshansdorf Grosshansdorf, DE
Rajpurkar, Pranav	Assistant Professor of Biomedical Informatics, Harvard Medical School Boston, US
Schmidt, Michael Arthur	CEO & Chief Scientific Officer, Sovaris Aerospace Denver Professor of Aerospace Medicine, University of Central Florida College of Medicine Orlando, US

Artificial Intelligence in Medicine

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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

Artificial Intelligence in Medicine

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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Artificial Intelligence in Medicine

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

LIVE STREAMING

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Click on the red button **SIGN UP**; to register in the reserved area, just fill in all the mandatory fields of the form.

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You can visit the schedule of the event, and click on the red button **"SUBSCRIBE TO EVENT"**, check the Privacy Notice and then confirm.

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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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Artificial Intelligence in Medicine

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.

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NOTES

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