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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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FONDAZIONE
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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. - 09.30 a.m. Welcome and overview
M. Legato (New York, US)

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)

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)

Artificial Intelligence in Medicine

PROGRAMME

TUESDAY, 9th SEPTEMBER 2025

- 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)

Artificial Intelligence in Medicine

PROGRAMME

WEDNESDAY, 10th SEPTEMBER 2025

- 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. Principles of Assessing Quality and Validity of AI Tools for Clinical Adoption
J. Dudley (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)

Artificial Intelligence in Medicine

FACULTY

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

Artificial Intelligence in Medicine

FACULTY

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 J.

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, Jeff

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

Dudley, Joel

Innovation Endeavors; Mount Sinai School of
Medicine
New York, US

Engelhardt, Sandy

Jun. Prof. Dr. Department of Cardiology, Angiology,
and Pneumology, Heidelberg University Hospital,
Heidelberg, Germany

Fabbri, Leonardo M.

Eminent Scholar University of Ferrara
Ferrara Italy

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Galderisi, Alfonso	Assistant Professor of Pediatrics, Department of Pediatrics, Yale University, New Haven, CT, USA 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
Manrai, Arjun	Assistant Professor of Biomedical Informatics, Harvard Medical School Boston, US

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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 F.	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

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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
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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, Columbia.
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 E.

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.en.fondazione-menarini.it/Home

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

1) Please visit the page of the congress of your interest:

<https://www.en.fondazione-menarini.it/Home/Events>

2) Click on “SUBSCRIBE TO RESIDENTIAL EVENT” and LOG IN with your credentials.

3) Choose which days you wish to attend.

You will receive a confirmation email including your registration QR CODE for entering the event.

IF YOU ARE NOT YET A SUBSCRIBER, REGISTER FOR FREE IN THE FONDAZIONE MENARINI RESERVED AREA

1) Go to www.en.fondazione-menarini.it/Home and click on “Reserved Area” (home page, on the right)

2) To register in the reserved area, just fill in the form, available here:

<https://www.en.fondazione-menarini.it/Home/Events>

3) Fill in all the mandatory fields and complete the registration, click on REGISTER (only once).

Wait for the confirmation page to appear, do not click on anything or leave the page.

Once you receive confirmation, return to the home page, you will already be logged-in to the reserved area.

4) Visit the page of the congress of your interest:

<https://www.en.fondazione-menarini.it/Home/Events/>

5) Confirm your registration by clicking on “SUBSCRIBE TO RESIDENTIAL EVENT” and LOG IN with your credentials.

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Artificial Intelligence in Medicine

REGISTRATION - LIVE STREAMING

LIVE STREAMING

Via website www.en.fondazione-menarini.it/Home

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

1) Please visit the page of the congress of your interest:

<https://www.en.fondazione-menarini.it/Home/Events>

2) Click on “SUBSCRIBE TO LIVE STREAMING” and LOG IN with your credentials, check the Privacy Notice and click on “ATTEND”.

You can enjoy the LIVE STREAMING for free on 9th and 10th September 2025.

IF YOU ARE NOT YET A SUBSCRIBER, REGISTER FOR FREE IN THE FONDAZIONE MENARINI RESERVED AREA

1) Go to www.en.fondazione-menarini.it/Home and click on “Reserved Area” (home page, on the right).

2) To register in the reserved area, just fill in the form, available here:

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4) Visit the page of the congress of your interest:

<https://www.en.fondazione-menarini.it/Home/Events/>

5) Confirm your registration by clicking on “SUBSCRIBE TO LIVE STREAMING”, check the Privacy Notice and click on “ATTEND”.

You can enjoy the LIVE STREAMING for free on 9th and 10th September 2025.

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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.en.fondazione-menarini.it/download-App-Fondazione-Menarini

LIVE STREAMING

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

You can access the APP with the same username and password that you use in the website. Visit the page of the event and confirm your participation, click on **"SUBSCRIBE TO LIVE STREAMING"**.

You can enjoy the LIVE STREAMING for free on 9th and 10th September 2025.

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Click on the profile icon in the top right-hand corner, or in the details of an event. Click on **LOGIN**:

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

Now it is necessary to log in with your username (email) and password! Then click on **LOGIN**.

Now you are logged-in to the APP (you will see your name near the user icon).

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

You can enjoy the LIVE STREAMING for free on 9th and 10th September 2025.

RESIDENTIAL EVENT

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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:

www.en.fondazione-menarini.it/Home/Contact-Us

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:

www.en.fondazione-menarini.it/Home

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

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