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RESPIRA *Mi*

Recent Advances on Air Pollution and Health

29th February- 01st March 2024

Fondazione Cariplo - Conference Center Milan, Italy



RATIONALE

Reducing the incidence and prevalence of modifiable risk factors of noncommunicable diseases is a critical endeavor to tackle the global burden of these ailments that claim several millions lives per year globally, and thus to foster effective initiatives of primary and secondary prevention. Air pollution is one of the most important modifiable risk factors, owing to ubiquitous environmental and household exposure in low-income and high-income countries. With this background, in collaboration with the Environmental Research Group (ERG) of the Imperial College in London, UK, we organize for the fifth time the independent International Seminar RespiraMi, and summon in the Italian city of Milan (IT) an impressive faculty of experts to present the most recent data stemming from research completed in the last few years and to bring up to date present knowledge of the achieved progress.

In the first session, “New evidence supporting air pollution risk assessment”, speakers from European countries and the World Health Organization critically analyze recent systematic reviews on the relation of morbidity and mortality to air pollution. Of particular interest and relevance is the report that, at the end of this opening session, evaluates the economic consequences of the impacts of air pollution on health.

The next four sessions of the first day of the Seminar update the current scientific evidence on the relation to air pollution exposure of four frequent noncommunicable diseases: cardiovascular and respiratory diseases, tumors as well as neurological and mental disease. The last session of the day is an innovative and until now poorly attempted effort to stimulate a cross-talk between medical specialists and general practitioners with epidemiologists to understand the relevance for clinical practice of the accumulated evidence on the adverse effects of air pollution, and the role of clinicians in using this evidence with their patients.

Equally important and cogent are the scientific sessions of the conference’s second day.

The poster presentation session deals with the update of research conducted on air pollution in Italy, a country characterized by a high degree of exposure, particularly but not exclusively in the northern region of the river Po valley. The next session evaluates the issues and recent progress in the assessment of the degree of exposure to air pollution, by using not only the traditional models of epidemiology but also other equally effective and perhaps less costly approaches. The last session reports the policy and actions planned for the European Union and the UK to reduce the

health risks of air pollution. The Seminar ends with a discussion and related reporting on which further evidence is warranted in order to support actions designed to reduce the health risks of air pollution in Europe and elsewhere.

The audience of the seminar will include scientists involved in the research on health effects of air pollution, public health specialists, experts on air quality assessment and management as well as representatives of organizations involved in actions designed to reduce health impacts of air pollution. The multidisciplinary discussion will serve both for better communication of the scientific knowledge to the wide public and identification of further questions to be addressed by research in order to improve prevention of the adverse impacts of air pollution on health.

Francesco Forastiere

Sergio A. Harari

Michal Krzyzanowski

Pier Mannuccio Mannucci

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CHAIRS OF THE SEMINAR

Francesco Forastiere

National Research Council (CNR-IFT), Palermo (IT)
Environmental Research Group Imperial College London (UK), Rome (IT)

Sergio A. Harari

Division of Respiratory Disease and Division of Internal Medicine
Ospedale San Giuseppe MultiMedica IRCSS, University of Milan (IT)

Michal Krzyzanowski

Environmental Research Group Imperial College London (UK), Warsaw (PL)

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ORGANIZING SECRETARIAT



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THURSDAY, 29TH FEBRUARY 2024 - MORNING

- 09.00 a.m. - 09.15 a.m. **Opening**
F. Blandini - Scientific Director IRCCS Ca' Granda
Ospedale Maggiore Policlinico (Milan, IT)
F. Kelly – Head ERG, Imperial College (London, UK)

**SESSION I - NEW EVIDENCE SUPPORTING AIR
POLLUTION HEALTH RISK ASSESSMENT**

Chairperson: **M. Krzyzanowski** (London, UK/Warsaw, PL)

- 09.15 a.m. - 09.30 a.m. Evaluation of the quality of systematic reviews
F. Forastiere (Rome, IT/London, UK)
- 09.30 a.m. - 09.50 a.m. Air pollution and morbidity – an umbrella review
M. Krzyzanowski (London, UK/Warsaw, PL)
- 09.50 a.m. - 10.05 a.m. Lessons learned from evidence synthesis of
observational studies in environmental health
H. Boogaard (Boston, USA)
- 10.05 a.m. - 10.20 a.m. Mortality and air pollution – update on concentration-
response functions (CRFs)
D. Jarosinska – WHO
- 10.20 a.m. - 10.35 a.m. Economic assessment of air pollution impacts on health
J.V. Spadaro (Philadelphia, PA, USA /Bonn, DE)
- 10.35 a.m. - 10.45 a.m. Q & A
- 10.45 a.m. - 11.15 a.m. *Poster viewing*

SESSION II - CARDIOVASCULAR OUTCOMES OF AIR POLLUTION EXPOSURE - UPDATE ON THE EVIDENCE

Chairperson: **P.M. Mannucci** (Milan, IT)

- 11.15 a.m. - 11.30 a.m. Ischemic heart disease and stroke
A. Peters (Munich, DE)
- 11.30 a.m. - 11.45 a.m. A jittery and wavering heart: an update on the effects of air pollution on atrial fibrillation and heart failure
P. Ljungman (Stockholm, SE)
- 11.45 a.m. - 11.55 a.m. Discussion

THURSDAY, 29TH FEBRUARY 2024 - AFTERNOON

SESSION III - RESPIRATORY OUTCOMES OF AIR POLLUTION EXPOSURE - UPDATE ON THE EVIDENCE

Chairperson: **S.A. Harari** (Milan, IT)

- 11.55 a.m. - 12.10 p.m. Asthma in children and adults
M. Pedersen (Copenhagen, DK)
- 12.10 p.m. - 12.25 p.m. Air pollution and Covid-19 in Catalonia
C. Tonne (Barcelona, ES)
- 12.25 p.m. - 12.35 p.m. Discussion

SESSION IV - AIR POLLUTION AND NEUROLOGICAL AND MENTAL DISORDERS - UPDATE ON THE EVIDENCE

Chairperson: **F. Forastiere** (Rome, IT/London, UK)

12.35 p.m. - 12.50 p.m. Neurodevelopment and childhood diseases
J. Sunyer (Barcelona, ES)

12.50 p.m. - 01.05 p.m. Mental disorders, with a focus on depression
M. Carugno (Milan, IT)

01.05 p.m. - 01.15 p.m. Discussion

01.15 p.m. - 02.45 p.m. *Poster viewing*

SESSION V - CANCER OUTCOMES OF AIR POLLUTION EXPOSURE - UPDATE ON THE EVIDENCE

Chairperson: **Z.J. Andersen** (Copenhagen, DK)

02.45 p.m. - 03.00 p.m. Promotion of EGFR mutant lung adenocarcinoma by air pollutants
W. Hill (London, UK)

03.00 p.m. - 03.15 p.m. Breast cancer and other cancers
B. Jacquemin (Rennes, FR)

03.15 p.m. - 03.25 p.m. Discussion

03.25 p.m. - 03.55 p.m. *Poster viewing*

SESSION VI - DIALOGUE WITH CLINICIANS: IS THE EVIDENCE ON AIR POLLUTION AS A RISK FACTOR STRONG ENOUGH TO BE USED IN CLINICAL PRACTICE? WHAT IS THE ROLE OF THE GENERAL PRACTITIONERS AND SPECIALISTS IN USING THIS EVIDENCE?

Chairpersons: **Z.J. Andersen** (Copenhagen, DK), **F. Forastiere** (Rome, IT/London, UK), **S.A. Harari** (Milan, IT), **P.M. Mannucci** (Milan, IT)

03.55 p.m. - 05.00 p.m. Panelists: **P. Brambilla** (Milan, IT), **F. Crea** (Rome, IT), **C. Gianotti** (Aosta, IT) **M. Piepoli** (Milan, IT)

05.00 p.m. End of day 1

FRIDAY, 01ST MARCH 2024 - MORNING

**SESSION VII - AIR POLLUTION AND HEALTH
RESEARCH IN ITALY**

Chairpersons: **C. Ancona** (Rome, IT), **M. Carugno** (Milan, IT)

09.00 a.m. - 10.40 a.m. **Poster presentation**
Discussion: What have we learnt, what next?

10.40 a.m. - 11.10 a.m. *Poster viewing*

**SESSION VIII - PROGRESS IN EXPOSURE ASSESMENT
FOR EPIDEMIOLOGICAL STUDIES**

Chairperson: **K. Katsouyanni** (Athens, GR/London, UK)

11.10 a.m. - 11.30 a.m. Enhanced exposure assessment using lower cost
samplers - benefits and risks
B. Barratt (UK)

11.30 a.m. - 11.50 a.m. Models in epidemiological studies and risk assessment
G. Hoek (Utrecht, NL)

11.50 a.m. - 12.10 p.m. Errors of assessment and their impact on risk estimates
K. Katsouyanni (Athens, GR/ London, UK)

12.10 p.m. - 12.20 p.m. Discussion

12.20 p.m. - 01.20 p.m. *Poster viewing*

FRIDAY, 01ST MARCH 2024 - AFTERNOON

SESSION IX - POLICIES AND ACTIONS TO REDUCE HEALTH RISKS OF AIR POLLUTION

Chairperson: **P.M. Mannucci** (Milan, IT)

- 01.20 p.m. - 01.40 p.m. Revision of EU AQ Directive
B. Hoffmann (Dusseldorf, DE)
- 01.40 p.m. - 02.00 p.m. Air Quality Policy in the UK: the new political football
F. Kelly (London, UK)
- 02.00 p.m. - 02.20 p.m. Discussion: tasks for health and research community in policy formulation and implementation

CLOSING DISCUSSION AND REMARKS : WHAT FURTHER EVIDENCE IS NEEDED TO SUPPORT ACTIONS TO REDUCE HEALTH RISKS OF AIR POLLUTION IN EUROPE

- 02.20 p.m. - 03.00 p.m. Chairpersons: **S.A. Harari** (Milan, IT), **F. Kelly** (London, UK),
C. Tonne (Barcelona, ES)

03.00 p.m. Conference ends

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FACULTY

Carla Ancona	Department of Epidemiology Lazio Region Health Service / ASL Rome 1 Rome (IT)
Zorana Jovanovic Andersen	Department of Public Health University of Copenhagen Copenhagen (DK)
Benjamin Barratt	Environmental Exposures and Public Health School of Public Health Imperial College London London (UK)
Hanna Boogaard	Health Effects Institute Boston, USA
Paolo Brambilla	Department of Neurosciences and Mental Health Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico Milan (IT)
Michele Carugno	Department of Clinical Sciences and Community Health University of Milan and Epidemiology Unit Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico Milan (IT)
Filippo Crea	Department of Cardiology IRCCS Foundation Agostino Gemelli University Hospital Rome (IT)
Francesco Forastiere	National Research Council (CNR-IFT) Palermo (IT) Environmental Research Group Imperial College London London (UK)/Rome (IT)
Claudio Gianotti	International Society of Doctors for Environment ISIDE Italy Aosta (IT)

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Sergio A. Harari	Division of Respiratory Disease and Division of Internal Medicine San Giuseppe Hospital MultiMedica IRCSS University of Milan Milan (IT)
William Hill	Cancer Evolution and Genome Instability Laboratory The Francis Crick Institute London (UK)
Gerard Hoek	Department Population Health Sciences Institute for Risk Assessment Sciences (IRAS) Utrecht (NL)
Barbara Hoffmann	Institute for Occupational, Social and Environmental Medicine Heinrich-Heine-University of Düsseldorf Düsseldorf (DE)
Bénédicte Jacquemin	Research Institute for Environmental and Occupational Health Irset – Inserm Rennes (FR)
Dorota Jarosinska	Programme Living and Working Environments WHO Regional Office for Europe European Centre for Environment and Health Bonn (DE)
Klea Katsouyanni	Environmental Research Group School of Public Health Imperial College London London, UK National and Kapodistrian University of Athens Athens (GR)
Frank Kelly	Environmental Research Group School of Public Health Imperial College London London (UK)

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Michal Krzyzanowski	Environmental Research Group Imperial College London (UK) / Warsaw (PL)
Petter Ljungman	Unit of Environmental Epidemiology Institute of Environmental Medicine Karolinska Institutet Department of Cardiology Danderyd Hospital Stockholm (SE)
Pier Mannuccio Mannucci	Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico Angelo Bianchi Bonomi Hemophilia and Thrombosis Center Milan (IT)
Marie Pedersen	Department of Public Health University of Copenhagen Copenhagen (DK)
Annette Peters	Institute of Epidemiology Helmholtz Ludwig Maximilians University Munich (DE)
Massimo Piepoli	Department of Biomedical Sciences for Health University of Milan Milan (IT)
Joseph V. Spadaro	SERC (Spadaro Environmental Research Consultants) Philadelphia (USA) WHO, ECEH (European Centre for Environment and Health) Bonn (DE)
Jordi Sunyer	Barcelona Institute for Global Health (ISGlobal) Barcelona (ES)
Cathryn Tonne	Barcelona Institute for Global Health (ISGlobal) Barcelona (ES)

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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.en.fondazione-menarini.it/Home

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LIVE STREAMING

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

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You can enjoy the LIVE STREAMING for free on 29th February and 01st March 2024.

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VIA FONDAZIONE MENARINI APP

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GENERAL INFORMATIONS

VENUE

Fondazione Cariplo - Conference Center, Via Romagnosi, 8- Milan, IT

OFFICIAL LANGUAGE

The official language of the meeting is English.

REGISTRATION HOURS FOR RESIDENTIAL EVENT

Thursday, 29th February 2024 : 08.00 a.m.- 05.00 p.m.

Friday, 01st March 2024: 08.00 a.m.- 03.00 p.m.

LIVE STREAMING EVENT ONLINE ON

Thursday, 29th February 2024 : 09.00 a.m.- 05.00 p.m.

Friday, 01st March 2024: 09.00 a.m.- 03.00 p.m.

Please note that times are expressed in Local Italy time

FACULTY SLIDE CENTRE OPENING HOURS

The center will be open at the following times:

Thursday, 29th February 2024 : 08.00 a.m.- 05.00 p.m.

Friday, 01st March 2024: 08.00 a.m.- 03.00 p.m.

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

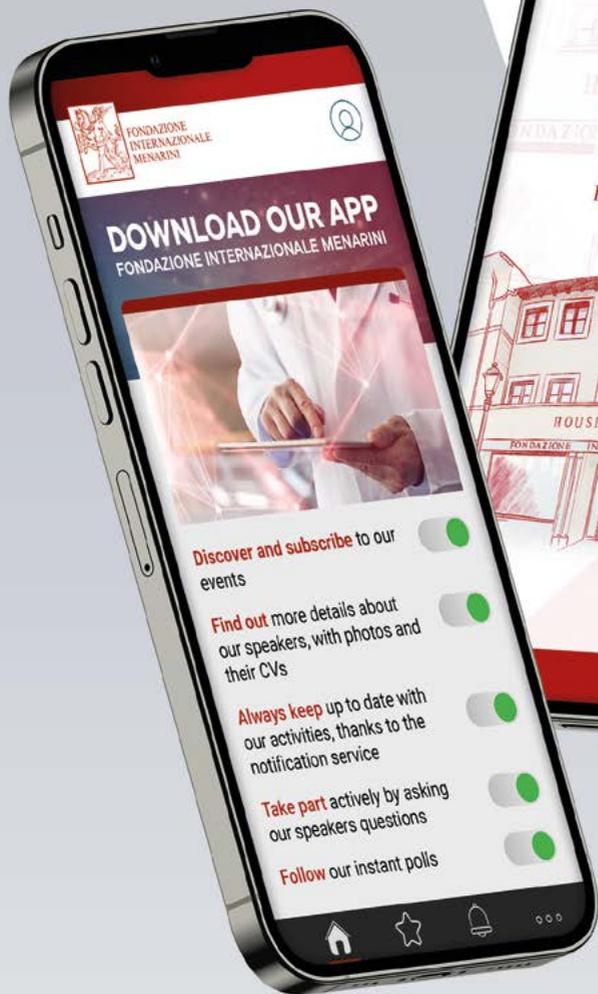
Lunch and coffee breaks will be served in the meeting area.

ATTENDANCE CERTIFICATE

The attendance certificate will be provided via email upon request.



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

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