



# **European Educational Programme in Epidemiology**

**35<sup>th</sup> RESIDENTIAL SUMMER COURSE  
FLORENCE, ITALY  
Main course 19 JUNE - 7 JULY 2023**



# European Educational Programme in Epidemiology

## Tuesday Evening Lectures

Tuesday evening lectures are given by distinguished epidemiologists, cover current important issues and controversies in epidemiology, are informal, and aim to promote discussion

### **Tuesday 20 June 2023, 19:00-20:00**

**Lorenzo Richiardi** – The NINFEA project: the first population-based e-cohort

### **Tuesday 27 June 2023, 19:00-20:00**

**Elizabeth Williamson** – Challenges in estimating the effectiveness of COVID-19 vaccination using observational data

### **Tuesday 4 July 2023, 19:00-20:00**

**Jordi Sunyer** – The effects of air pollution on the brain, how to translate it into interventions



# European Educational Programme in Epidemiology

## **WEEK 1: 19-23 June 2023**

- EM1: Epidemiological methods 1: basic principles and introduction to study design
- SM1: Statistical models in epidemiology 1: basic principles

**WEEK 1: 19 – 23 June 2023**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

**Program Monday 19 June 2023**

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08:30 – 09:30 **Introduction: Lorenzo Richiardi, Franco Merletti**

09:30 – 10:30 **SM1: Bianca De Stavola**  
Sampling and confidence intervals

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **EM1: Franco Merletti**  
Measures of occurrence of disease

12:00 – 13:00 **SM1: Costanza Pizzi and Bianca De Stavola**  
Introduction to STATA

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13:00 – 14.30 **Lunch**

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14:30 – 15:30 **SM1: Bianca De Stavola and Costanza Pizzi**  
Statistics practical 1

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15:30 – 16:00 **Coffee point available**

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16:00 – 17:00 **EM1: Lorenzo Richiardi**  
Exposure and outcome measurements in epidemiology

17:00 – 18.30 **EM1:** Exercise on exposure and outcome measurements

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19:00 **WELCOME DRINKS**

**WEEK 1: 19 – 23 June 2023**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Tuesday 20 June 2023**

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08:30 – 09:30 **SM1: Costanza Pizzi**  
Statistical tests and P-values

09:30 – 10:30 **SM1: Bianca De Stavola and Costanza Pizzi**  
Statistics practical 2

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **EM1: Anne-Marie Nybo Andersen**  
Overview of study designs

12:00 – 13:00 **EM1: Franco Merletti**  
Measures of association and attributable risk

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13:00 – 14:30 **Lunch**

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14:30 – 15:30 **SM1: Costanza Pizzi**  
Analyses of risks and odds

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15:30 – 16:00 **Coffee point available**

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16:00 – 17:00 **EM1: Anne-Marie Nybo Andersen**  
Cohort studies

17:00 – 18:30 **EM1:** Exercise: rates and risks

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19:00 – 20:00 **Evening Lecture**

**Lorenzo Richiardi** - The NINFEA project: the first population-based e-cohort

**WEEK 1: 19 – 23 June 2023**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Wednesday 21 June 2023**

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08:30 – 09:30 **SM1: Costanza Pizzi**  
Confounding and stratification

09:30 – 10:30 **SM1: Bianca De Stavola and Costanza Pizzi**  
Statistics practical 3

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **EM1: Franco Merletti**  
Introduction to confounding

12:00 – 13:00 **EM1: Anne-Marie Nybo Andersen**  
Introduction to bias

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13:00 – 14:30 **Lunch**

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14:30 – 15:30 **SM1: Costanza Pizzi**  
Introduction to the bladder cancer dataset

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15:30 – 16:00 **Coffee point available**

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16:00 – 17:00 **EM1: Lorenzo Richiardi**  
Case-control studies

17:00 – 18:30 **EM1: Exercise: Cohort studies**

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**Sangria Party**

**WEEK 1: 19 – 23 June 2023**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

**Program Thursday 22 June 2023**

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08:30 – 09:30 **SM1: Bianca De Stavola**  
The likelihood principle

09:30 – 10:30 **SM1: Bianca De Stavola**  
The likelihood in practice

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **EM1: Anne-Marie Nybo Andersen**  
Cross sectional studies

12:00 – 13:00 **EM1: Lorenzo Richiardi**  
Introduction to DAGs (Directed Acyclic Graphs) 1

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13.00 – 14.30 **Lunch**

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14:30 – 15:30 **SM1: Bianca De Stavola and Costanza Pizzi**  
Statistics practical 4

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15:30 – 16:00 **Coffee point available**

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16:00 – 17:00 **EM1: Lorenzo Richiardi**  
Temporal trends and geographical variations

17:00 – 18:30 **EM1: Exercise: DAGs**

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**WEEK 1: 19 – 23 June 2023**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

**Program Friday 23 June 2023**

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08:30 – 09:30 **EM1: Daniela Zugna**  
DAGs (Directed Acyclic Graphs) 2

09:30 – 10:30 **EM1: Lorenzo Richiardi**  
Intervention studies

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **SM1: Bianca De Stavola**  
Analyses of rates

12:00 – 13:00 **SM1: Bianca De Stavola**  
Introduction to survival analysis

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13.00 – 14.00 **Lunch**

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14:00 – 15:00 **SM1: Bianca De Stavola and Costanza Pizzi**  
Statistics practical 5

15:00 – 16:00 **EM1:** Exercise: overview of epidemiological methods 1

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# European Educational Programme in Epidemiology

**WEEK 2: 26 June – 30 June 2023**

EM2: Epidemiological methods 2

SM2: Statistical models in epidemiology 2

DA: Data analysis exercises

**WEEK 2: 26 June – 30 June 2023**  
EM2: Epidemiological methods 2  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Monday 26 June 2023**

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08:30 – 09:30 **EM2: Monica Guxens**

Cohort studies 2

09:30 – 10:15 **SM2: Cono Ariti/Elizabeth Williamson**

Logistic regression 1 – Introduction

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti/Elizabeth Williamson**

Analysis of Case Control Studies

11:30 – 13:00 **SM2: Cono Ariti, Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**

Statistics practical 1

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13:00 – 14.00 **Lunch**

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14:30 – 15:30 **EM2: Neil Pearce**

Case-control studies 2: selection of controls

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15:30 **Coffee point available**

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15:45 – 18:30 **EM DA: Data analysis team (Neil Pearce, Monica Guxens, Aurelio Tobias, Milena Maule, Stefania Curti)**

Data analysis exercise 1

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19:00 **WELCOME DRINKS**

**WEEK 2: 26 June – 30 June 2023**  
EM2: Epidemiological methods 2  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Tuesday 27 June 2023**

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08:30 – 09:30 **EM2: Neil Pearce**  
Information and selection bias

09:30 – 10:15 **SM2: Cono Ariti/Elizabeth Williamson**  
Review: Confounding

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti/Elizabeth Williamson**  
Logistic regression 2 – adjusted models

11:30 – 13:00 **SM2: Cono Ariti, Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**  
Statistics practical 2

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13:00 – 14:00 **Lunch**

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14:30 – 15:30 **EM2: Neil Pearce**  
Causality

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15:30 **Coffee point available**

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15:45 – 18:30 **EM DA: Analysis team**  
Data analysis exercise 2

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19:00 – 20:00 **Evening Lecture**  
**Elizabeth Williamson** – Challenges in estimating the effectiveness of COVID-19 vaccination using observational data

**WEEK 2: 26 June – 30 June 2023**  
EM2: Epidemiological methods 2  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Wednesday 28 June 2023**

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08:30 – 09:30 **EM2: Monica Guxens**  
Construction of a questionnaire

09:30 – 10:15 **SM2 : Cono Ariti/Elizabeth Williamson**  
Logistic regression 3 – effect modification

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti/Elizabeth Williamson**  
Logistic regression 3 effect modification (continued)

11:30 – 13:00 **SM2: Cono Ariti, Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**  
Statistics practical 3

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13.00 – 14.00 **Lunch**

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14:30 – 15:30 **EM2: Neil Pearce**  
Interaction and effect modification

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15:30 **Coffee point available**

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15:45 – 18:30 **EM DA: Analysis team**  
Data analysis exercise 3

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**WEEK 2: 26 June – 30 June 2023**  
EM2: Epidemiological methods 2  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Thursday 29 June 2023**

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08:30 – 09:30 **EM2: Aurelio Tobias**  
Meta-analysis

09:30 – 10:15 **SM2: Cono Ariti/Elizabeth Williamson**  
Logistic regression 4 – dose response

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti/Elizabeth Williamson**  
Logistic regression 4 – dose response (continued)

11:30 – 13:00 **SM2: Cono Ariti, Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**  
Statistics practical 4

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13.00 – 14.00 **Lunch**

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14:30 – 15:30 **EM2: Monica Guxens**  
Case-control studies 3: nested, case-cohort, and case-crossover studies

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15:30 **Coffee point available**

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15.45 – 18:30 **EM DA: Analysis team**  
Data analysis exercise 4

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**WEEK 2: 26 June – 30 June 2023**  
EM2: Epidemiological methods 2  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Friday 30 June 2023**

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08:30 – 09:30	<b>EM2: Monica Guxens</b> Cohort studies 3
09:30 – 10:15	<b>SM2: Cono Ariti/Elizabeth Williamson</b> Introduction to survival analysis 1
10:15 – 10:45	<b>Coffee Break</b>
10:45 – 11:30	<b>SM2: Cono Ariti/Elizabeth Williamson</b> Introduction to survival analysis 2
11:30 – 13:00	<b>SM2: Cono Ariti, Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias</b> Statistics practical 5
13.00 – 14.00	<b>Lunch</b>
14:00 – 15.30	<b>EM2: Neil Pearce</b> Modelling strategy

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# European Educational Programme in Epidemiology

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

## **Parallel morning modules: 3 July – 6 July, 09:00 – 13:00**

### ***Advanced topics in statistics***

Per Kragh Andersen, Corrado Lagazio and Michela Baccini

### ***Advanced topics in epidemiology: Mendelian Randomisation, negative control analyses, family designs, cross-context comparisons, and triangulation***

Deborah Lawlor and Carolina Borges

### ***Applied epidemiology: environmental epidemiology***

Jordi Sunyer and Martine Vrijheid

### ***Epidemiology and public health: from epidemiology to the burden of disease***

Gillian Levine, Andrea Farnham and Nino Kuenzli

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## **Parallel afternoon modules: 3 July – 6 July, 14:30 – 18:30**

### ***Applied epidemiology: the evaluation of medical tests***

Patrick M Bossuyt and Yasaman Vali

### ***Advanced topics in epidemiology: methods to deal with unobserved information in epidemiological studies***

Irene Petersen and Henrik Støvring

### ***Epidemiology and public health: principles of prevention in the precision medicine Big Data and Covid-19 time***

Rodolfo Saracci and Maja Popovic

### ***Applied epidemiology: infectious disease epidemiology***

Tyra Grove Krause and Steen Ethelberg

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## **Friday plenary session: 7 July, 09:00 – 13:00**

### **Saracci Lecture**

**Payam Dadvand** “Greenspace and child health and development”

### **Distinguished lecture**

Mary Schubauer-Berigan – Consideration of epidemiological studies of cancer and carcinogen mechanisms in cancer hazard identification: the approach of the *IARC Monographs* programme”

### **Closing Session**

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**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

**Monday 3 July 2023, 7pm**

*WELCOME DRINKS*

**Tuesday Evening Lecture, 4 July 2023, 19:00-20:00**

**Jordi Sunyer** - The effects of air pollution on the brain, how to translate it into interventions

**Thursday 6 July 2023, 20:00 - ?**

Course Dinner at the patio

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**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Advanced topics in statistics***

**Per Kragh Andersen, Corrado Lagazio and Michela Baccini**

**MONDAY 3 July 2023**

09:00 – 13:00 Cohort sampling

**TUESDAY 4 July 2023**

09:00 – 13:00 Competing risks

**WEDNESDAY 5 July 2023**

09:00 – 13:00 Recurrent events

**THURSDAY 6 July 2023**

09:00 – 13:00 Causal inference and use of propensity score

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Advanced topics in epidemiology:***

**Triangulation of genetic instrumental variable and other causal methods:  
[Mendelian Randomization, negative control analyses, family designs, cross-  
context comparisons, and triangulation]**

**Deborah A Lawlor and M Carolina Borges**

<b>Time</b>	<b>Lecture/seminar/practical</b>	<b>Tutor</b>
<b>DAY 1</b>		
09.00 – 10.00	<b>L1:</b> Introduction to the module and to triangulation	DAL
10.00 – 10.45	<b>L2:</b> Negative control & cross-context comparisons	DAL
10.45 – 11.30	<b>L3:</b> Within sibship analyses	MCB
11.30 – 12.00	COFFEE	
12.00 – 13.30	<b>P1:</b> Assessing strengths and limitations of different approaches	DAL/MCB
<b>DAY 2:</b>		
09.00 – 09.30	Recap of Day 1	MCB
09.30 – 10.30	<b>L4:</b> Overview of instrumental variable analyses	MCB
10.30 – 11.30	<b>L5:</b> One-sample Mendelian randomization	DAL
11.30 – 12.00	COFFEE	
12.00 – 13.30	<b>P2:</b> One-sample Mendelian randomization	MCB/DAL
<b>DAY 3</b>		
09.00 – 09.30	Recap of Day 2	MCB
09.30 – 10.30	<b>L6:</b> Two-sample Mendelian randomization – principles	DAL
10.30 – 11.30	<b>L7:</b> Two-sample Mendelian randomization – data analysis	MCB
11.30 – 12.00	COFFEE	
12.00 – 13.30	<b>P3:</b> Two-sample Mendelian randomization	MCB/DAL
<b>DAY 4</b>		
09.00 - 10.00	Recap of Day 3	MCB
10.00 – 10.45	<b>L8:</b> Instrumental variable analyses in other contexts	MCB
10.45 – 11.30	<b>L9:</b> Triangulation	DAL
11.30 – 12.00	COFFEE	
12.00 – 13.20	<b>P4:</b> Triangulating evidence from different approaches to improve causal inference	DAL/MCB
13.20 – 13.30	<b>Wrap-up and initial verbal feedback</b>	DAL/MCB

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Applied epidemiology:*  
Environmental epidemiology**

**Jordi Sunyer, Martine Vrijheid**

**MONDAY, 3 July**

- 09:00-09:45 *Session 1: Environmental epidemiology: from the burden of health to the health of the Planet. (J Sunyer)*
- 09:45-10:30 *Session 2: Designs for studying short-term effects (J Sunyer)*
- 11:00-13:00 *Case study 1: Environmental risk factors in the Global Burden Disease Assessment. (J Sunyer)*

**TUESDAY, 4 July**

- 09:00-10:00 *Session 3: Exposure assessment (M Vrijheid)*
- 10:00-10:30 *Session 4: DOHaD and longitudinal studies in environmental health research (J Sunyer)*
- 11:00-13:00 *Case study 2: Biomarkers of environmental contaminants (M Vrijheid, J Sunyer)*

**WEDNESDAY, 5 July**

- 09:00-09:45 *Session 5: Urban built environment (J Sunyer)*
- 09:45-10:30 *Session 6: Exposome (M Vrijheid)*
- 11:00-13:00 *Case study 3: The early life exposome and lung function (M Vrijheid, J Sunyer).*

**THURSDAY, 6 July**

- 09:00-09:30 *Session 7: Risk assessment. Introduction to exercise. (M Vrijheid)*
- 10:00-13:00 *Case study 4: The IARC risk assessment approach of carcinogenic hazards (J Sunyer, M Vrijheid)*

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Epidemiology and public health:***

**From epidemiology to the burden of disease**

**Gillian Levine, Andrea Farnham and Nino Kuenzli**

This hybrid course combines lecture sequences, break-out group work, self-study periods and other forms of exchange. Students who participate online are expected to be online during all scheduled course times. The course is not recorded nor available asynchronously. Students who register to participate in person must be present in the classroom during all course sessions.

**MONDAY, 3 July**

- 09:00-11:00 Measures of risk to measures of potential attribution and impact  
(*G. Levine, N. Künzli*)
- 11:00-13:00 Risk assessment frameworks and comparative risk assessments  
(*A. Farnham, N. Künzli*)

**TUESDAY, 4 July**

- 09:00-11:00 Introduction to burden of disease and Global Burden of Disease study: Measures of disease burden and valuing health states (*G. Levine*)
- 11:00-13:00 Health Impact Assessment: rationale and frameworks (*A. Farnham*)

**WEDNESDAY, 5 July**

- 09:00-10:30 Health Impact Assessment: Case study (*A. Farnham*)
- 10:30-12:00 Global burden of disease illness, injuries, and risk factors: Methods, results and tools (*G. Levine*)
- 12:00-13:00 From risk to burden to measuring impact: Group activity

**THURSDAY, 6 July**

- 09:00-11:00 From risk to burden to measuring impact: Group activity
- 11:30-12:30 Group presentations
- 12:30-13:00 Questions, reflections and conclusions

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Applied epidemiology:*  
The evaluation of medical tests**

**Patrick M. Bossuyt and Yasaman Vali**

**MONDAY 3 July 2023**

14:00-15.15	Session 1:	A framework for the evaluation of biomarkers and medical tests
15.45-17:00	Session 2:	Evaluating the analytical and technical performance of medical tests

**TUESDAY 4 July 2023**

14:00-15.15	Session 3:	Clinical performance – diagnostic tests: questions, metrics and study design
15.45-17:00	Session 4:	Clinical performance – diagnostic tests: sources of bias and variability

**WEDNESDAY 5 July 2023**

14:00-15.15	Session 5:	Clinical performance – prognostic tests: questions and study design
15.45-17:00	Session 6:	Clinical performance – screening tests: questions and study design

**THURSDAY 6 July 2023**

14:00-15.15	Session 7:	Clinical performance – predictive tests: questions and study design
15.45-17:00	Session 8:	Clinical effectiveness – randomized medical test trials

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Advanced topics in epidemiology:***  
**How to deal with missing data and unmeasured confounding**  
**[Multiple imputation, self-controlled study designs, instrumental variables]**

**Irene Petersen and Henrik Støvring**

**MONDAY 3 July 2023**

14:00 – 15.00      How to deal with information we don't have?  
15.00 – 15.30      Coffee  
15.30 – 18.00      Quantifying bias in observational studies (HS)

**TUESDAY 4 July 2023**

14.00 – 15.00      Instrumental variables (HS)  
15.00 – 15.30      Coffee  
15.30 – 16.30      Instrumental variables – group exercise  
16.30 – 18.00      Self-controlled study designs (IP)

**WEDNESDAY 5 July 2023**

14.00 – 18.00      Missing data and multiple imputation Part 1 (IP & HS)

**THURSDAY 6 July 2023**

14.00 – 18.00      Missing data and multiple imputation Part 2 (IP & HS)

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Epidemiology and public health:***

**Principles of prevention in the precision medicine and Big Data era**

**Rodolfo Saracci and Maja Popovic**

**MONDAY 3 July 2023**

14:30 – 18:30      **Concepts.** Health and disease prevention in history and in the precision medicine and Big Data era

**TUESDAY 4 July 2023**

14:30 – 18:30      **Prediction.** Prevention at the individual level, and the challenge of prediction

**WEDNESDAY 5 July 2023**

14:30 – 18:30      **Choices.** Prevention at the population level, and the challenge of tackling diseases' causes of causes

**THURSDAY 6 July 2023**

14:30 – 18:30      **Questions.** Prevention today: post-truth, ethics and politics



**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

***Applied epidemiology:*  
Infectious disease epidemiology**

**Tyra Grove Krause and Steen Ethelberg**

**MONDAY 3 July 2023**

14:30-18:30 Terminology and definitions used in infectious disease epidemiology including principles for disease transmission (Lecture 1 and Practical 1)

**TUESDAY 4 July 2023**

14:30-18:30 Collection, analysis and interpretation of surveillance data (Lecture 2 and Practical 2)

**WEDNESDAY 5 July 2023**

14:30-18:30 Vaccinology and study designs used for vaccine effectiveness and safety studies (Lecture 3 and Practical 3)

**THURSDAY 6 July 2023**

14:30-18:30 Investigation of (primarily foodborne) outbreaks (Lecture 4 and Practical 4)

**WEEK 3: 3 July – 7 July 2023**

Parallel morning and afternoon modules

## **Friday plenary session: 7 July, 09:30 – 13:00**

09:30 – 12:30 **Rodolfo Saracci Lecture and Closing Symposium**

**9.30 - 9.45 Introductions**

**9.45 - 10.45 The Saracci Lecture:**

**Payam Dadvand** “Greenspace and child health and development”

10.45 - 11.00 Coffee break

**11.00 – 12.00 Keynote address:**

**Mary Schubauer-Berigan** – Consideration of epidemiological studies of cancer and carcinogen mechanisms in cancer hazard identification: the approach of the *IARC Monographs* programme”

**12.00 - 12.15 Rodolfo Saracci – Closing remarks**

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12:15 – 13:00 **Lorenzo Richiardi, Neil Pearce and Rodolfo Saracci**  
Certificates of attendance and goodbyes😊

**End of EEPE 2023 Course**



# **European Educational Programme in Epidemiology**

**FACULTY MEMBERS**

## Faculty Members

### **Per Kragh Andersen**

Dept. of Biostatistics  
University of Copenhagen  
Øster Farimagsgade 5, entr.B  
P.O. Box 2099  
1014 Copenhagen K  
Denmark  
E-mail: [pan@sund.ku.dk](mailto:pan@sund.ku.dk)

### **Cono Ariti**

London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [cono.ariti@lshtm.ac.uk](mailto:cono.ariti@lshtm.ac.uk)

### **Michela Baccini**

Università degli Studi di Firenze  
Dipartimento di Statistica, Informatica,  
Applicazioni 'Giuseppe Parenti'  
Viale Morgagni, 59  
50134 Firenze  
Italy  
E-mail: [baccini@disia.unifi.it](mailto:baccini@disia.unifi.it)

### **Carolina Borges**

University of Bristol  
School of Social and Community Medicine  
Oakfield House  
Oakfield Grove  
Clifton BS8 2BN  
United Kingdom  
E-mail: [m.c.borges@bristol.ac.uk](mailto:m.c.borges@bristol.ac.uk)

### **Patrick M Bossuyt**

Academic Medical Center  
University of Amsterdam  
PO Box 22700  
1100 DE Amsterdam  
the Netherlands  
E-mail: [p.m.bossuyt@amc.uva.nl](mailto:p.m.bossuyt@amc.uva.nl)

### **Stefania Curti**

University of Bologna  
Dipartimento di Scienze Mediche e  
Chirurgiche  
Via Giuseppe Massarenti, 9  
40138 Bologna  
Italy  
E-mail: [stefania.curti@unibo.it](mailto:stefania.curti@unibo.it)

### **Bianca De Stavola**

University College London  
London  
United Kingdom  
E-mail: [b.destavola@ucl.ac.uk](mailto:b.destavola@ucl.ac.uk)

### **Steen Ethelberg**

Statens Serum Institute  
Artillerivej 5  
2300 Kobenhavn S  
Denmark  
E-mail: [set@ssi.dk](mailto:set@ssi.dk)

### **Andrea Farnham**

Epidemiology, Biostatistics and Prevention  
Institute  
University of Zurich  
Hirschengraben 84  
8001 Zurich  
Switzerland  
E-mail: [andrea.farnham@uzh.ch](mailto:andrea.farnham@uzh.ch)

### **Monica Guxens**

Barcelona Institute for Global Health  
ISGlobal - Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [monica.guxens@isglobal.org](mailto:monica.guxens@isglobal.org)

### **Tyra Grove Krause**

Statens Serum Institute  
Artillerivej 5  
2300 Kobenhavn S  
Denmark  
E-mail: [tgv@ssi.dk](mailto:tgv@ssi.dk)

### **Nino Künzli**

Swiss Tropical and Public Health Institute  
Hirschengraben 82  
8001 Zürich  
Switzerland  
E-mail: [nkuenzli@sspplus.ch](mailto:nkuenzli@sspplus.ch)

### **Corrado Lagazio**

Dept. of Economics  
University of Genova  
Via Vivaldi 5  
16126 Genova  
Italy  
E-mail: [corrado.lagazio@unige.it](mailto:corrado.lagazio@unige.it)

## Faculty Members

### **Deborah Lawlor**

MRC Integrative Epidemiology Unit at the  
University of Bristol  
School of Social and Community Medicine  
Oakfield House, Oakfield Road, Bristol,  
BS8 2BN  
United Kingdom  
E-mail: [d.a.lawlor@bristol.ac.uk](mailto:d.a.lawlor@bristol.ac.uk)

### **Gillian Levine**

Swiss Tropical and Public Health Institute  
Kreuzstrasse 2  
4123, Allschwil  
Switzerland  
E-mail: [gillian.levine@swisstph.ch](mailto:gillian.levine@swisstph.ch)

### **Milena Maule**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [milena.maule@unito.it](mailto:milena.maule@unito.it)

### **Franco Merletti**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [franco.merletti@unito.it](mailto:franco.merletti@unito.it)

### **Anne-Marie Nybo Andersen**

Section of Social Medicine  
Department of Public Health  
University of Copenhagen  
Gothersgade 160  
1123 København K  
Denmark  
E-mail: [amny@sund.ku.dk](mailto:amny@sund.ku.dk)

### **Neil Pearce**

**(Director of the course)**  
Dept. of Medical Statistics  
London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [Neil.Pearce@lshtm.ac.uk](mailto:Neil.Pearce@lshtm.ac.uk)

### **Irene Petersen**

Dept. Primary Care and Population Health  
UCL (Royal Free Campus)  
Rowland Hill Street  
London NW3 2PF  
United Kingdom  
E-mail: [i.petersen@ucl.ac.uk](mailto:i.petersen@ucl.ac.uk)

### **Costanza Pizzi**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences, University of  
Turin  
Via Santena 7, 10126 Turin  
Italy  
E-mail: [costanza.pizzi@unito.it](mailto:costanza.pizzi@unito.it)

### **Maja Popovic**

Cancer Epidemiology Unit  
Department of Medical Sciences  
University of Turin  
Via Santena, 7,  
10126 Torino  
Italy  
E-mail: [maja.popovic@unito.it](mailto:maja.popovic@unito.it)

### **Lorenzo Richiardi**

**(Director of the course)**  
Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [lorenzo.richiardi@unito.it](mailto:lorenzo.richiardi@unito.it)

### **Rodolfo Saracci**

Founding Director  
EEPE  
7 rue Saint Hippolyte  
69008 Lyon  
France  
E-mail: [saracci@hotmail.com](mailto:saracci@hotmail.com)

### **Henrik Støvring**

Department of Public Health  
University of Aarhus  
Bartholins Allé 2, Bldg 1261, 217  
DK-8000 Aarhus C  
Denmark  
E-mail: [stovring@ph.au.dk](mailto:stovring@ph.au.dk)

## Faculty Members

### **Jordi Sunyer**

Barcelona Institute for Global Health  
ISGlobal - Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [jordi.sunyer@isglobal.org](mailto:jordi.sunyer@isglobal.org)

### **Aurelio Tobias**

Spanish Council for Scientific Research  
(CSIC)  
Jordi Girona, 18-26  
08034 Barcelona  
Spain  
E-mail: [aurelio.tobias@idaea.csic.es](mailto:aurelio.tobias@idaea.csic.es)

### **Yasaman Vali**

Academic Medical Center  
University of Amsterdam  
Meibergdreef 9  
1105 AZ Amsterdam  
the Netherlands  
E-mail: [y.vali@amsterdamumc.nl](mailto:y.vali@amsterdamumc.nl)

### **Martine Vrijheid**

Barcelona Institute for Global Health  
ISGlobal – Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [martine.vrijheid@isglobal.org](mailto:martine.vrijheid@isglobal.org)

### **Elizabeth Williamson**

Dept. of Medical Statistics  
London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [elizabeth.williamson@lshtm.ac.uk](mailto:elizabeth.williamson@lshtm.ac.uk)

### **Daniela Zugna**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [daniela.zugna@unito.it](mailto:daniela.zugna@unito.it)

### **Secretariat**

#### **Mar Ferrer**

Barcelona Institute for Global Health  
ISGlobal  
Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [eepe@eepe.org](mailto:eepe@eepe.org)