



European Educational Programme in Epidemiology

**32nd RESIDENTIAL SUMMER COURSE
FLORENCE, ITALY
Main course 17 JUNE - 5 JULY 2019**



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 18 June 2019, 19:00-20:00

Anne-Marie Nybo Andersen

Is it time for epidemiologists to recognize that children have a father?

Tuesday 25 June 2019, 19:00-20:00

Manolis Kogevinas

Sleep, light-at-night and cancer: why circadian rhythms matter

Tuesday 2 July 2019, 19:00-20:00

Jan Vandembroucke

From ideas to studies



European Educational Programme in Epidemiology

WEEK 1: 17 – 21 June 2019

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

WEEK 1: 17 – 21 June 2019

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

SM1: Statistical models in epidemiology 1: basic principles

Program Monday 17 June 2019

08:30 – 08:45 **Introduction: Lorenzo Richiardi**

08:45 – 09:30 **EM1: Rodolfo Saracci**
Epidemiology: what is the name of the game?

09:30 – 10:30 **SM1: Simon Cousens**
Sampling and confidence intervals

10:30 – 11:00 **Coffee Break**

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

12:00 – 13:00 **SM1: Costanza Pizzi and Simon Cousens**
Installation of STATA

13:00 – 14.30 **Lunch**

14:30 – 15:00 **SM1: Costanza Pizzi**
Introduction to STATA

15:00 – 16:00 **SM1: Simon Cousens and Costanza Pizzi**
Statistics practical 1

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

16:30 – 17:15 **EM1: Lorenzo Richiardi**
Exposure and outcome measurements in epidemiology

17:15 – 18.45 **EM1:** Exercise on exposure and outcome measurements

19:00 **WELCOME DRINKS**

WEEK 1: 17 – 21 June 2019

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

SM1: Statistical models in epidemiology 1: basic principles

Program Tuesday 18 June 2019

08:30 – 09:30 **SM1: Simon Cousens**
Statistical tests and P-values

09:30 – 10:30 **SM1: Simon Cousens and Costanza Pizzi**
Statistics practical 2

10:30 – 11:00 **Coffee Break**

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

13:00 – 14:30 **Lunch**

14:30 – 15:15 **SM1: Simon Cousens**
Introduction to likelihood

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

16:00 – 17:00 **EM1: Anne-Marie Nybo Andersen**
Introduction to bias

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

19:00 – 20:00 **Evening Lecture**
Anne-Marie Nybo Andersen
Is it time for epidemiologists to recognize that children have a father?

WEEK 1: 17 – 21 June 2019

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

SM1: Statistical models in epidemiology 1: basic principles

Program Wednesday 19 June 2019

08:30 – 09:30 **SM1: Simon Cousens**
Approximate likelihoods

09:30 – 10:30 **SM1: Simon Cousens and Costanza Pizzi**
Statistics practical 3

10:30 – 11:00 **Coffee Break**

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

12:00 – 13:00 **EM1: Anne-Marie Nybo Andersen**
Cohort studies

13.00 – 14.30 **Lunch**

14:30 – 15:30 **SM1: Simon Cousens**
Analyses of risks and odds

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

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

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

Sangria Party

WEEK 1: 17 – 21 June 2019

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

SM1: Statistical models in epidemiology 1: basic principles

Program Thursday 20 June 2019

08:30 – 09:30 **SM1: Simon Cousens**
Confounding and stratification

09:30 – 10:30 **SM1: Simon Cousens and Costanza Pizzi**
Statistics practical 4

10:30 – 11:00 **Coffee Break**

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

13.00 – 14.30 **Lunch**

14:30 – 15:30 **EM1: Costanza Pizzi**
Introduction to the bladder cancer dataset

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

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

17:00 – 18:30 **EM1: Exercise: DAGs**

WEEK 1: 17 – 21 June 2019

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

SM1: Statistical models in epidemiology 1: basic principles

Program Friday 21 June 2019

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

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

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **SM1: Simon Cousens**
Analyses of rates

12:00 – 13:00 **SM1: Simon Cousens**
Introduction to survival analysis

13.00 – 14.00 **Lunch**

14:00 – 15:00 **SM1: Simon Cousens and Costanza Pizzi**
Statistics practical 5

15:00 – 16:16 **EM1:** Exercise: critical reading



European Educational Programme in Epidemiology

WEEK 2: 24 June – 28 June 2019

EM2: Epidemiological methods 2

SM2: Statistical models in epidemiology 2

DA: Data analysis exercises

WEEK 2: 24 June – 28 June 2019
EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises

Program Monday 24 June 2019

08:30 – 09:30 **EM2: Manolis Kogevinas**

Cohort studies 2

09:30 – 10:15 **SM2: Elizabeth Williamson**

Logistic regression 1 – Introduction

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **SM2: Elizabeth Williamson**

Analysis of Case Control Studies

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

Statistics practical 1

13:00 – 14.00 **Lunch**

14:30 – 15:30 **EM2: Neil Pearce**

Case-control studies 2: selection of controls

15:30 **Coffee point available**

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

Data analysis exercise 1

WELCOME DRINKS

WEEK 2: 24 June – 28 June 2019
EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises

Program Tuesday 25 June 2019

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

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

10:15 – 10:45 **Coffee Break**

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

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

13:00 – 14:00 **Lunch**

14:30 – 15:30 **EM2: Neil Pearce**
Modelling strategy

15:30 **Coffee point available**

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

19:00 – 20:00 **Evening Lecture**
Manolis Kogevinas
Sleep, light-at-night and cancer: why circadian rhythms matter

WEEK 2: 24 June – 28 June 2019
EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises

Program Wednesday 26 June 2019

08:30 – 09:30	EM2: Manolis Kogevinas Construction of a questionnaire
09:30 – 10:15	SM2 : Elizabeth Williamson Logistic regression 3 – effect modification
10:15 – 10:45	Coffee Break
10:45 – 11:30	SM2: Elizabeth Williamson Logistic regression 3 effect modification (continued)
11:30 – 13:00	SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias Statistics practical 3
13.00 – 14.00	Lunch
14:30 – 15:30	EM2: Neil Pearce Interaction and effect modification
15:30	Coffee point available
15:45 – 18:30	EM DA: Analysis team Data analysis exercise 3

WEEK 2: 24 June – 28 June 2019
EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises

Program Thursday 27 June 2019

08:30 – 09:30	EM2: Aurelio Tobias Meta-analysis
09:30 – 10:15	SM2: Elizabeth Williamson Logistic regression 4 – dose response
10:15 – 10:45	Coffee Break
10:45 – 11:30	SM2: Elizabeth Williamson Logistic regression 5 – Analysis of matched case control studies
11:30 – 13:00	SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias Statistics practical 4
13.00 – 14.00	Lunch
14:30 – 15:30	EM2: Manolis Kogevinas Case-control studies 3: nested, case-cohort, and case-crossover studies
15:30	Coffee point available
15.45 – 18:30	EM DA: Analysis team Data analysis exercise 4

WEEK 2: 24 June – 28 June 2019
EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises

Program Friday 28 June 2019

08:30 – 09:30 **EM2: Manolis Kogevinas**
Molecular and genetic epidemiology

09:30 – 10:15 **SM2: Elizabeth Williamson**
Introduction to survival analysis 1

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **SM2: Elizabeth Williamson**
Introduction to survival analysis 2

11:30 – 13:00 **SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**
Statistics practical 5

13.00 – 14.00 **Lunch**

14:00 – 16:00 **EM2: Neil Pearce**
Causality

EM2: all teachers
General questions and discussion



European Educational Programme in Epidemiology

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

Parallel morning modules: 1-4 July, 09:00 – 13:00

Advanced statistical topics

Per Kragh Andersen, Corrado Lagazio and Michaela Baccini

Causal methods in epidemiology

Deborah Lawlor and Carolina Borges

Environmental epidemiology

Josep M. Antó and Jordi Sunyer

From epidemiology to the burden of disease: putting risks in perspective

Nino Künzli and Thomas Fürst

Parallel afternoon modules: 1-4 July, 14:30 – 18:30

Clinical epidemiology: the evaluation of medical tests

Patrick M Bossuyt, Miranda Langendam

Advanced topics in epidemiology

Irene Petersen and Jan Vandembroucke

Principles of prevention

Rodolfo Saracci

Communicable disease epidemiology

Tyra Grove Krause and Steen Ethelberg

Friday plenary session: 5 July, 09:00 – 13:00

Saracci Lecture

Distinguished lecture (Elisabete Weiderpass)

Closing Session

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

Monday 1 July 2019, 7pm

WELCOME DRINKS

Tuesday Evening Lecture, 2 July 2019, 19:00-20:00

Jan Vandembroucke
From ideas to studies

Thursday 4 July 2019, 20:00 - ?

Course Dinner at the patio

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

ADVANCED STATISTICAL TOPICS

Per Kragh Andersen, Corrado Lagazio and Michela Baccini

MONDAY 1 JULY 2019

09:00 – 13:00 Cohort sampling

TUESDAY 2 JULY 2019

09:00 – 13:00 Competing risks

WEDNESDAY 3 JULY 2019

09:00 – 13:00 Recurrent events

THURSDAY 4 JULY 2019

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

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

**CAUSAL METHODS IN EPIDEMIOLOGY:
MENDELIAN RANDOMIZATION AND TRIANGULATION****Deborah A Lawlor and M Carolina Borges**

Time	Lecture/seminar/practical	Tutors
DAY 1: JULY 1st		
9.00-9.30	LECTURE 1: Introduction to the module and to triangulation	DAL
9.30-10.15	LECTURE 2: Negative control & cross-context comparisons	DAL
10.15-11:00	LECTURE 3: Within sibship analyses	MCB
11.00-11.30	COFFEE	
11.30-13.00	PRACTICAL 1: Assessing strengths and limitations of different approaches	DAL/MCB
DAY 2: JULY 2nd		
9.00-9.30	Recap of Day 1	MCB
9.30-10:00	LECTURE 4: Overview of instrumental variable analyses	MCB
10:00-10:30	LECTURE 5: One-sample Mendelian randomization	DAL
11-11,30.00	COFFEE	
11.30-13.00	PRACTICAL 2: One-sample Mendelian randomization	MCB/DAL
DAY 3: JULY 3rd		
9.00-9.30	Recap of Day 2	MCB
9.30-10.15	LECTURE 6: Two-sample Mendelian randomization – principles	DAL
10.15-11.00	LECTURE 7: Two-sample Mendelian randomization – data analysis	MCB
11.00-11.30	COFFEE	
11.30-13.00	PRACTICAL 3: Two-sample Mendelian randomization	MCB/DAL
DAY 4: JULY 4th		
9.00-9.30	Recap of Day 3	MCB
9.30-10:15	LECTURE 8: Instrumental variable analyses in other contexts (e.g. randomized controlled trials, physician preference)	MCB
10:15-11:00	LECTURE 9: Triangulation	DAL
11.00-11.30	COFFEE	
11.30-12.30	PRACTICAL 4: Triangulating evidence from different approaches to improve causal inference	DAL/MCB
12.30-13.00	Causal methods clinic*	DAL/MCB

* During the course students will be encouraged to write down questions (anonymous if they prefer) about things they feel unclear about from the course sessions and/or about specific research projects – up to coffee on the last day. We will address as many of these as possible in this final session.

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

ENVIRONMENTAL EPIDEMIOLOGY

Josep M. Antó – Jordi Sunyer

MONDAY, JULY 1

- 09:00-11:00 *Session 1: Environmental epidemiology: from the burden of health to the health of the Planet.* (JM Antó)
- 11:30-13:00 *Case study 1: Environmental risk factors in the Global Burden Disease Assessment.* (JM Antó, J Sunyer)

TUESDAY, JULY 2

- 09:00-10:00 *Session 2: Exposome* (J Sunyer)
- 10:00-11:00 *Session 3: Designs for studying short-terms effects* (J Sunyer)
- 11:30-13:00 *Case study 2: Temperature and mortality* (J Sunyer, JM Antó)

WEDNESDAY, JULY 3

- 09:00-10:00 *Session 4: The developmental origins of health and disease* (J Sunyer)
- 10:00-11:00 *Session 5: Urban built environment* (J Sunyer)
- 11:30-13:00 *Case study 3: Air pollution is a major threat for health: The BREATHE study* (J Sunyer, JM Antó)

THURSDAY, JULY 4

- 09:00-11:00 *Session 6: Risk and impact assessment of single, multiple and systemic risks* (JM Antó)
- 11:30-13:00 *Case study 4: The IARC risk assessment approach of carcinogenic hazards* (JM Antó, J Sunyer)

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

FROM EPIDEMIOLOGY TO THE BURDEN OF DISEASE: PUTTING RISKS IN PERSPECTIVE

Nino Künzli and Thomas Fürst

MONDAY, JULY 1

- 09:00-11:00 What are risk ratios (RR), attributable risks (AR), population attributable risks (PAR), population attributable fractions (PAF) exposure impact number (EIN), population impact number (EIN), etc.? (*Nino Künzli*)
- 11:00-11:30 COFFEE BREAK
- 11:30-13:00 What are a risk assessment frameworks and a comparative risk assessments? (*Nino Künzli*)

TUESDAY, JULY 2

- 09:00-11:00 What is the health burden of a condition? What are summary measures of population health? Why using these measures? (*Thomas Fürst*)
- 11:00-11:30 COFFEE BREAK
- 11:30-13:00 What are methods to describe health states? How can such health state descriptions be valued? How are such health state valuations used in burden of disease studies? (*Thomas Fürst*)

WEDNESDAY, JULY 3

- 09:00-11:00 Brief recapitulation and discussion of some additional critical reflections? What is the Global Burden of Disease (GBD) collaboration and study? How can the respective GBD study results be accessed and used as a critical information source? (*Thomas Fürst*)
- 11:00-11:30 COFFEE BREAK
- 11:30-13:00 How can the respective GBD study results be accessed and used as a critical information source (part 2)? (*Thomas Fürst*)

THURSDAY, JULY 4

- 09:00-11:00 "À la carte" teaching: students' choice on further exploration/discussion of previous topic(s) or additional case examples from practical work of the teachers (e.g. Health impact study on ambient air pollution in Switzerland and related costs? Uncertainties in risk quantifications? Derivation of a science-based air quality guideline value?). (*Nino Künzli & Thomas Fürst*)
- 11:00-11:30 COFFEE BREAK
- 11:30-13:00 "À la carte" teaching: continuation (*Nino Künzli & Thomas Fürst*)

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

CLINICAL EPIDEMIOLOGY: THE EVALUATION OF MEDICAL TESTS

Patrick M. Bossuyt and Miranda Langendam

MONDAY 1 JULY 2019

14:30-18:30 Introduction to diagnostic studies

TUESDAY 2 JULY 2019

14:30-18:30 Diagnostic studies and introduction to prognosis

WEDNESDAY 3 JULY 2019

14:30-18:30 Prognostic studies

THURSDAY 4 JULY 2019

14:30-18:30 Intervention study design

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

ADVANCED TOPICS IN EPIDEMIOLOGY

Irene Petersen and Jan Vandembroucke

MONDAY 1 JULY 2019

14:30 – 18:30 Missing Data and Multiple Imputation Part 1 (Irene Petersen)

TUESDAY 2 JULY 2019

14:30 – 18:30 Missing Data and Multiple Imputation Part 2 (Irene Petersen)

WEDNESDAY 3 JULY 2019

14:30 – 18:30 Topic to be confirmed (Irene Peterson)

THURSDAY 4 JULY 2019

14:30 – 18:30 Instrumental variable analysis and regression discontinuity designs/analysis (Jan Vandembroucke)

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

**PRINCIPLES OF PREVENTION IN THE PRECISION MEDICINE AND BIG DATA
ERA
Rodolfo Saracci**

MONDAY 1 JULY 2019

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

TUESDAY 2 JULY 2019

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

WEDNESDAY 3 JULY 2019

14:30 – 18:30 Prevention at the population level, and the challenge of disease 'causes of causes

THURSDAY 4 JULY 2019

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

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

INFECTIOUS DISEASE EPIDEMIOLOGY

Tyra Grove Krause and Steen Ethelberg

MONDAY 1 JULY 2019

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

TUESDAY 2 JULY 2019

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

WEDNESDAY 3 JULY 2019

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

THURSDAY 4 JULY 2019

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

WEEK 3: 1-5 July 2019

Parallel morning and afternoon modules

Friday plenary session: 5 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

10.45 - 11.00 Coffee break

11.00 – 12.00 Keynote address:

Elisabete Weiderpass (Director, IARC)

12.00 - 12.15 Rodolfo Saracci – Closing remarks

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

End of EEPE 2019 Course



European Educational Programme in Epidemiology

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