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 Vandenbroucke
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
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
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?
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 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
### Program  
**Friday 21 June 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 – 09:30</td>
<td><strong>EM1: Daniela Zugna</strong></td>
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<tr>
<td></td>
<td>DAGs (Directed Acyclic Graphs) 2</td>
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<tr>
<td>09:30 – 10:30</td>
<td><strong>EM1: Lorenzo Richiardi</strong></td>
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<td></td>
<td>Intervention studies</td>
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<td>10:30 – 11:00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00 – 12:00</td>
<td><strong>SM1: Simon Cousens</strong></td>
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<td></td>
<td>Analyses of rates</td>
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<tr>
<td>12:00 – 13:00</td>
<td><strong>SM1: Simon Cousens</strong></td>
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<td></td>
<td>Introduction to survival analysis</td>
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<tr>
<td>13:00 – 14:00</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:00 – 15:00</td>
<td><strong>SM1: Simon Cousens and Costanza Pizzi</strong></td>
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<tr>
<td></td>
<td>Statistics practical 5</td>
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<tr>
<td>15:00 – 16:16</td>
<td><strong>EM1: Exercise: critical reading</strong></td>
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</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
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</table>
| 08:30  | **EM2: Manolis Kogevinas**  
Cohort studies 2                                                            |
| 09:30  | **SM2: Elizabeth Williamson**  
Logistic regression 1 – Introduction                                         |
| 10:15  | **Coffee Break**                                                        |
| 10:45  | **SM2: Elizabeth Williamson**  
Analysis of Case Control Studies                                             |
| 11:30  | **SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias**  
Statistics practical 1                                                   |
| 13:00  | **Lunch**                                                               |
| 14:30  | **EM2: Neil Pearce**                                                     
Case-control studies 2: selection of controls                                 |
| 15:30  | **Coffee point available**                                             |
| 15:45  | **EM DA: Data analysis team (Neil Pearce, Manolis Kogevinas, Aurelio Tobias, Milena Maule, Stefania Curti)**  
Data analysis exercise 1                                                  |

**WELCOME DRINKS**
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
### Program Wednesday 26 June 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 – 09:30</td>
<td><strong>EM2: Manolis Kogevinas</strong></td>
</tr>
<tr>
<td></td>
<td>Construction of a questionnaire</td>
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<tr>
<td>09:30 – 10:15</td>
<td><strong>SM2 : Elizabeth Williamson</strong></td>
</tr>
<tr>
<td></td>
<td>Logistic regression 3 – effect modification</td>
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<tr>
<td>10:15 – 10:45</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>10:45 – 11:30</td>
<td><strong>SM2: Elizabeth Williamson</strong></td>
</tr>
<tr>
<td></td>
<td>Logistic regression 3 effect modification (continued)</td>
</tr>
<tr>
<td>11:30 – 13:00</td>
<td><strong>SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias</strong></td>
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<tr>
<td></td>
<td>Statistics practical 3</td>
</tr>
<tr>
<td>13:00 – 14:00</td>
<td><strong>Lunch</strong></td>
</tr>
<tr>
<td>14:30 – 15:30</td>
<td><strong>EM2: Neil Pearce</strong></td>
</tr>
<tr>
<td></td>
<td>Interaction and effect modification</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Coffee point available</strong></td>
</tr>
<tr>
<td>15:45 – 18:30</td>
<td><strong>EM DA: Analysis team</strong></td>
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<tr>
<td></td>
<td>Data analysis exercise 3</td>
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# Program Thursday 27 June 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>08:30 – 09:30</td>
<td>EM2: Aurelio Tobias&lt;br&gt;Meta-analysis</td>
</tr>
<tr>
<td>09:30 – 10:15</td>
<td>SM2: Elizabeth Williamson&lt;br&gt;Logistic regression 4 – dose response</td>
</tr>
<tr>
<td>10:15 – 10:45</td>
<td>Coffee Break</td>
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<tr>
<td>10:45 – 11:30</td>
<td>SM2: Elizabeth Williamson&lt;br&gt;Logistic regression 5 – Analysis of matched case control studies</td>
</tr>
<tr>
<td>11:30 – 13:00</td>
<td>SM2: Elizabeth Williamson, Milena Maule, Stefania Curti and Aurelio Tobias&lt;br&gt;Statistics practical 4</td>
</tr>
<tr>
<td>13.00 – 14.00</td>
<td>Lunch</td>
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<tr>
<td>14:30 – 15:30</td>
<td>EM2: Manolis Kogevinas&lt;br&gt;Case-control studies 3: nested, case-cohort, and case-crossover studies</td>
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<tr>
<td>15:30</td>
<td>Coffee point available</td>
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<tr>
<td>15.45 – 18:30</td>
<td>EM DA: Analysis team&lt;br&gt;Data analysis exercise 4</td>
</tr>
<tr>
<td>Program</td>
<td>Friday 28 June 2019</td>
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</tbody>
</table>
| 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
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 Vandenbroucke

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 Vandenbroucke
From ideas to studies

Thursday 4 July 2019, 20:00 - ?

Course Dinner at the patio
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture/seminar/practical</th>
<th>Tutors</th>
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</thead>
<tbody>
<tr>
<td>DAY 1: JULY 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>9.00-9.30</td>
<td>LECTURE 1: Introduction to the module and to triangulation</td>
<td>DAL</td>
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<tr>
<td>9.30-10.15</td>
<td>LECTURE 2: Negative control &amp; cross-context comparisons</td>
<td>DAL</td>
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<tr>
<td>10:15-11:00</td>
<td>LECTURE 3: Within sibship analyses</td>
<td>MCB</td>
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<td>11.00-11.30</td>
<td>COFFEE</td>
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<tr>
<td>11.30-13.00</td>
<td>PRACTICAL 1: Assessing strengths and limitations of different</td>
<td>DAL/MCB</td>
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<td></td>
<td>approaches</td>
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<td>DAY 2: JULY 2&lt;sup&gt;nd&lt;/sup&gt;</td>
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<tr>
<td>9.00-9.30</td>
<td>Recap of Day 1</td>
<td>MCB</td>
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<tr>
<td>9.30-10.00</td>
<td>LECTURE 4: Overview of instrumental variable analyses</td>
<td>MCB</td>
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<td>10:00-10:30</td>
<td>LECTURE 5: One-sample Mendelian randomization</td>
<td>DAL</td>
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<td>11.00-11.30</td>
<td>COFFEE</td>
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<tr>
<td>11.30-13.00</td>
<td>PRACTICAL 2: One-sample Mendelian randomization</td>
<td>MCB/DAL</td>
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<tr>
<td>DAY 3: JULY 3&lt;sup&gt;rd&lt;/sup&gt;</td>
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<tr>
<td>9.00-9.30</td>
<td>Recap of Day 2</td>
<td>MCB</td>
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<tr>
<td>9.30-10.15</td>
<td>LECTURE 6: Two-sample Mendelian randomization – principles</td>
<td>DAL</td>
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<tr>
<td>10.15-11.00</td>
<td>LECTURE 7: Two-sample Mendelian randomization – data analysis</td>
<td>MCB</td>
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<td>11.00-11.30</td>
<td>COFFEE</td>
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<tr>
<td>11.30-13.00</td>
<td>PRACTICAL 3: Two-sample Mendelian randomization</td>
<td>MCB/DAL</td>
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<td>DAY 4: JULY 4&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td>9.00-9.30</td>
<td>Recap of Day 3</td>
<td>MCB</td>
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<tr>
<td>9.30-10.15</td>
<td>LECTURE 8: Instrumental variable analyses in other contexts (e.g. randomized controlled trails, physician preference)</td>
<td>MCB</td>
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<tr>
<td>10:15-11:00</td>
<td>LECTURE 9: Triangulation</td>
<td>DAL</td>
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<td>11.00-11.30</td>
<td>COFFEE</td>
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<tr>
<td>11.30-12.30</td>
<td>PRACTICAL 4: Triangulating evidence from different approaches to</td>
<td>DAL/MCB</td>
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<td>improve causal inference</td>
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<tr>
<td>12.30-13.00</td>
<td>Causal methods clinic*</td>
<td>DAL/MCB</td>
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</tbody>
</table>

* 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.
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 re 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 stat 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 Künzly & Thomas Fürst*)
11.00-11.30 COFFEE BREAK
11:30-13:00 “À la carte” teaching: continuation (*Nino Künzly & 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
ADVANCED TOPICS IN EPIDEMIOLOGY

Irene Petersen and Jan Vandebroucke

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 Vandebroucke)
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

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: pkan@sund.ku.dk

Josep M Antó  
Barcelona Institute for Global Health  
ISGlobal – Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: josepm.anto@isglobal.org

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

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

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

Stefania Curti  
University of Bologna  
Dipartimento di Scienze Mediche e Chirurgiche  
Via Giuseppe Massarenti, 9  
40138 Bologna  
Italy  
E-mail: stefania.curti@unibo.it

Steen Ethelberg  
Statens Serum Institute  
Artillerivej 5  
2300 Kobenhavn S  
Denmark  
E-mail: set@ssi.dk

Thomas Fürst  
Swiss Tropical and Public Health Institute  
Socinistrasse 57  
4002 Basel  
Switzerland  
E-mail: thomas.fuerst@swisstph.ch

Tyra Grove Krause  
Statens Serum Institute  
Artillerivej 5  
2300 Kobenhavn S  
Denmark  
E-mail: tgv@ssi.dk

Manolis Kogevinas  
Barcelona Institute for Global Health  
ISGlobal - Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: manolis.kogevinas@isglobal.org

Nino Künzli  
Swiss Tropical and Public Health Institute  
Socinistrasse 57  
4002 Basel  
Switzerland  
E-mail: nino.kuenzli@swisstph.ch

Corrado Lagazio  
Dept. of Economics  
University of Genova  
Via Vivaldi 5  
16126 Genova  
Italy  
E-mail: corrado.lagazio@unige.it

Simon Cousens  
London School of Hygiene & Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: simon.cousens@lshtm.ac.uk
Faculty Members

**Miranda W. Landengam**  
Dept. Clinical Epidemiology, Biostistics and Bioinformatics  
Academisch Medisch Centrum  
Meibergdreef 9  
1105 AZ Amsterdam  
Netherlands  
E-mail: M.W.Langendam@amc.uva.nl

**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

**Debbie 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

**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

**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

**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

**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

**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

**Rodolfo Saracci**  
Senior Visiting Scientist  
International Agency for Research on Cancer (IARC)  
150 Cours Albert Thomas  
66372 Lyon CEDEX 08  
France  
E-mail: saracci@hotmail.com

**Anne-Marie Nybo Andersen**  
Section of Social Medicine  
Department of Public Health  
University of Copenhagen  
Gothsageade 160  
1123 Kopenhagen K  
Denmark  
E-mail: amny@sund.ku.dk

**Jordi Sunyer**  
Barcelona Institute for Global Health  
ISGlobal - Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: jordi.sunyer@isglobal.org
Faculty Members

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

Jan P. Vandenbroucke
Department of Clinical Epidemiology
Leiden University Hospital
Bldg 1, PO Box 9600
2300 RC Leiden
The Netherlands
And Department of Clinical Epidemiology
Aarhus University
Denmark
E-mail: J.P.Vandenbroucke@lumc.nl

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

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

Secretariat
Mar Ferrer
Barcelona Institute for Global Health
ISGlobal
Campus Mar
Doctor Aiguader 88
08003 Barcelona
Spain
E-mail: eepe@eepe.org