European Educational Programme in Epidemiology

31st RESIDENTIAL SUMMER COURSE
FLORENCE, ITALY
Main course 18 JUNE - 6 JULY 2018
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 19 June 2018, 19:00-20:00

Rodolfo Saracci
Prevention, at the core of population health

Tuesday 26 June 2018, 19:00-20:00

Neil Pearce
Asthma drugs and asthma deaths

Tuesday 3 July 2018, 19:00-20:00

Bianca De Stavola
Multiple questions for multiple mediators in the study of onset of eating disorders
European Educational Programme in Epidemiology

WEEK 1: 18 – 22 June 2018

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

SM1: Statistical models in epidemiology 1: basic principles
## Program Monday 18 June 2018

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08:30 – 08:45</td>
<td>Introduction: Lorenzo Richiardi</td>
</tr>
</tbody>
</table>
| 08:45 – 09:30| **EM1: Rodolfo Saracci**  
Population health, the core of epidemiology |
| 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: 18 – 24 June 2018**

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

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

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<tr>
<th>Program</th>
<th>Tuesday 19 June 2018</th>
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</table>
| 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**  
Rodolfo Saracci  
Prevention, at the core of population health |
**Program**  
**Wednesday 20 June 2018**

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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 – 09:30</td>
<td>SM1: Simon Cousens</td>
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<tr>
<td></td>
<td>Approximate likelihoods</td>
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<tr>
<td>09:30 – 10:30</td>
<td>SM1: Simon Cousens and Costanza Pizzi</td>
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<tr>
<td></td>
<td>Statistics practical 3</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 – 12:00</td>
<td>EM1: Franco Merletti</td>
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<tr>
<td></td>
<td>Introduction to confounding</td>
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<td>12:00 – 13:00</td>
<td>EM1: Anne-Marie Nybo Andersen</td>
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<tr>
<td></td>
<td>Cohort studies</td>
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<td>13:00 – 14:30</td>
<td>Lunch</td>
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<tr>
<td>14:30 – 15:30</td>
<td>SM1: Simon Cousens</td>
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<tr>
<td></td>
<td>Analyses of risks and odds</td>
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<tr>
<td>15:30 – 16:00</td>
<td>Coffee point available</td>
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<tr>
<td>16:00 – 17:00</td>
<td>EM1: Lorenzo Richiardi</td>
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<td></td>
<td>Case-control studies</td>
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<tr>
<td>17:00 – 18:30</td>
<td>EM1: Exercise: Cohort studies</td>
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**Sangria Party**
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30 – 09:30</td>
<td>SM1: Simon Cousens</td>
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<tr>
<td></td>
<td>Confounding and stratification</td>
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<tr>
<td>09:30 – 10:30</td>
<td>SM1: Simon Cousens and Costanza Pizzi</td>
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<td></td>
<td>Statistics practical 4</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 – 12:00</td>
<td>EM1: Anne-Marie Nybo Andersen</td>
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<td></td>
<td>Cross sectional studies</td>
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<td>12:00 – 13:00</td>
<td>EM1: Lorenzo Richiardi</td>
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<tr>
<td></td>
<td>Introduction to DAGs (Directed Acyclic Graphs) 1</td>
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<td>13:00 – 14:30</td>
<td>Lunch</td>
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<td>14:30 – 15:30</td>
<td>EM1: Costanza Pizzi</td>
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<td>Introduction to the bladder cancer dataset</td>
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<td>15:30 – 16:00</td>
<td>Coffee point available</td>
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<td>16:00 – 17:00</td>
<td>EM1: Lorenzo Richiardi</td>
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<tr>
<td></td>
<td>Temporal trends and geographical variations</td>
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<tr>
<td>17:00 – 18:30</td>
<td>EM1: Exercise: DAGs</td>
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WEEK 1: 18 – 24 June 2018

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 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** |
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WEEK 2: 25 June – 29 June 2018

EM2: Epidemiological methods 2
SM2: Statistical models in epidemiology 2
DA: Data analysis exercises
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<thead>
<tr>
<th>Time</th>
<th>Program</th>
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<tbody>
<tr>
<td>08:30 – 09:30</td>
<td><strong>EM2: Kate Tilling</strong>&lt;br&gt;Cohort studies 2</td>
</tr>
<tr>
<td>09:30 – 10:15</td>
<td><strong>SM2: Cono Ariti</strong>&lt;br&gt;Logistic regression 1 – Introduction</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: Cono Ariti</strong>&lt;br&gt;Analysis of Case Control Studies</td>
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<tr>
<td>11:30 – 13:00</td>
<td><strong>SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias</strong>&lt;br&gt;Statistics practical 1</td>
</tr>
<tr>
<td>13:00 – 14:00</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:30 – 15:30</td>
<td><strong>EM2: Neil Pearce</strong>&lt;br&gt;Case-control studies 2: selection of controls</td>
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<tr>
<td>15:30</td>
<td><strong>Coffee point available</strong></td>
</tr>
<tr>
<td>15:45 – 18:30</td>
<td><strong>DA: Data analysis team</strong>&lt;br&gt;Data analysis exercise 1</td>
</tr>
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</table>
Program | Tuesday 26 June 2018
---|---
08:30 – 09:30 | **EM2: Kate Tilling**  
Information and selection bias

09:30 – 10:15 | **SM2: Cono Ariti**  
Review: Confounding

10:15 – 10:45 | **Coffee Break**

10:45 – 11:30 | **SM2: Cono Ariti**  
Logistic regression 2 – adjusted models

11:30 – 13:00 | **SM2: Cono Ariti, Kate Tilling, 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 | **DA: Analysis team**  
Data analysis exercise 2

19:00 – 20:00 | **Evening Lecture**  
**Neil Pearce**  
Asthma drugs and asthma deaths
Program | Wednesday 27 June 2018
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08:30 – 09:30 | EM2: Milena Maule  
Construction of a questionnaire

09:30 – 10:15 | SM2: Cono Ariti  
Logistic regression 3 – effect modification

10:15 – 10:45 | Coffee Break

10:45 – 11:30 | SM2: Cono Ariti  
Logistic regression 3 effect modification (continued)

11:30 – 13:00 | SM2: Cono Ariti, Kate Tilling, 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 | DA: Analysis team  
Data analysis exercise 3

Sangria Party
<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 08:30 – 09:30 | **EM2: Aurelio Tobias**  
Meta-analysis |
| 09:30 – 10:15 | **SM2: Cono Ariti**  
Logistic regression 4 – dose response |
| 10:15 – 10:45 | **Coffee Break** |
| 10:45 – 11:30 | **SM2: Cono Ariti**  
Logistic regression 5 – Analysis of matched case control studies |
| 11:30 – 13:00 | **SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias**  
Statistics practical 4 |
| 13.00 – 14.00 | **Lunch** |
| 14:30 – 15:30 | **EM2: Milena Maule**  
Case-control studies 3: nested, case-cohort, and case-crossover studies |
| 15:30 | **Coffee point available** |
| 15.45 – 18:30 | **DA: Analysis team**  
Data analysis exercise 4 |
### Program FRIDAY 29 JUNE 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 08:30 – 09:30 | **EM2: Kate Tilling**  
Missing data                                                     |
| 09:30 – 10:15 | **SM2: Cono Ariti**  
Introduction to survival analysis 1                                   |
| 10:15 – 10:45 | Coffee Break                                                            |
| 10:45 – 11:30 | **SM2: Cono Ariti**  
Introduction to survival analysis 2                                   |
| 11:30 – 13:00 | **SM2: Cono Ariti, Kate Tilling, 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                                      |

### SATURDAY 30 JUNE or SUNDAY 1 JULY 2018

Optional day excursion to surrounding sites (such as San Gimignano)
European Educational Programme in Epidemiology

WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules
Parallel morning modules: 2-5 July, 09:00 – 13:00

Advanced statistical topics
Per Kragh Andersen, Corrado Lagazio and Michaela Baccini
Genetic epidemiology: genome-wide association studies and whole genome approaches to the study of disease
David Evans and Gibran Hemani
Advanced topics in epidemiology
Jan Vandenbroucke and Irene Petersen
From epidemiology to the burden of disease: putting risks in perspective
Nino Künzli and Thomas Fürst

Parallel afternoon modules: 2-5 July, 14:30 – 18:30

Clinical epidemiology: The evaluation of medical tests
Olof Akre and Emanuele Pivetta
Aetiological epidemiology: Mendelian Randomization and triangulation of causal methods
Debbie Lawlor and Carolina Borges
Environmental epidemiology
Josep M. Antó and Jordi Sunyer
Concepts and methods in causal mediation analysis
Bianca DeStavola

Friday plenary session: 6 July, 09:00 – 13:00

Saracci Lecture and Closing Session
Tuesday Evening Lecture, 3 July 2018, 19:00-20:00

“Bianca De Stavola
Multiple questions for multiple mediators in the study of onset of eating disorders

Thursday 5 July 2018, 20:00 - ?
Course Dinner at the patio
WEEK 3: 2-6 July 2018

Parallel morning and afternoon modules

ADVANCED STATISTICAL TOPICS
Per Kragh Andersen, Corrado Lagazio and Michela Baccini

MONDAY 2 JULY 2018
09:00 – 13:00 Cohort sampling

TUESDAY 3 JULY 2018
09:00 – 13:00 Competing risks

WEDNESDAY 4 JULY 2018
09:00 – 13:00 Recurrent events

THURSDAY 5 JULY 2018
09:00 – 13:00 Causal inference and use of propensity score
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

GENETIC EPIDEMIOLOGY: GENOME-WIDE ASSOCIATION STUDIES AND
WHOLE GENOME APPROACHES TO THE STUDY OF DISEASE
David Evans and Gibran Hemani

MONDAY 2 JULY 2018
09:00 – 13:00 Introduction to genetics

TUESDAY 3 JULY 2018
09:00 – 13:00 Genome-wide Association Studies I (GWAS)

WEDNESDAY 4 JULY 2018
09:00 – 13:00 Genome-wide Association Studies II (GWAS)

THURSDAY 5 JULY 2018
09:00 – 13:00 Whole genome approaches to genetic epidemiology
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

ADVANCED TOPICS IN EPIDEMIOLOGY
Jan Vandenbroucke and Irene Petersen

MONDAY 2 JULY 2018

09:00 – 13:00 Instrumental variable analysis and regression discontinuity designs/analysis (Jan Vandenbroucke)

TUESDAY 3 JULY 2018

09:00 – 13:00 Interaction: from the old to the new, from statistics to epidemiology and causality (Jan Vandenbroucke)

WEDNESDAY 4 JULY 2018

09:00 – 13:00 Missing Data and Multiple Imputation Part 1 (Irene Petersen)

THURSDAY 5 JULY 2018

09:00 – 13:00 Missing Data and Multiple Imputation Part 2 (Irene Petersen)
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

FROM EPIDEMIOLOGY TO THE BURDEN OF DISEASE: PUTTING RISKS IN PERSPECTIVE
Nino Künzli and Thomas Fürst

MONDAY 2 JULY 2018
09:00-13:00 From risk to impact – PART I

TUESDAY 3 JULY 2018
09:00-13:00 From risk to impact – PART II

WEDNESDAY 4 JULY 2018
09:00-13:00 From risk to impact – PART III

THURSDAY 5 JULY 2018
09:00-13:00 From risk to impact – PART IV
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

CLINICAL EPIDEMIOLOGY: THE EVALUATION OF MEDICAL TESTS
Olof Akre and Emanuele Pivetta

MONDAY 2 JULY 2018
14:30-18:30  Introduction to diagnostic studies

TUESDAY 3 JULY 2018
14:30-18:30  Diagnostic studies and introduction to prognosis

WEDNESDAY 4 JULY 2018
14:30-18:30  Prognostic studies

THURSDAY 5 JULY 2018
14:30-18:30  Intervention study design
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

AETOLOGICAL EPIDEMOLOGY: MENDELIAN RANDOMIZATION AND TRIANGULATION OF CAUSAL METHODS

Debbie Lawlor and Carolina Borges

MONDAY 2 JULY 2018
14:30 – 14:45 Introduction to the module
14:45 – 16:00 LECTURE 1: Introduction to instrumental variables and Mendelian randomization (MR) – Deborah Lawlor
16:00 – 16:30 Coffee
16:30 – 18:00 PRACTICAL 1: One sample Mendelian randomization practical – Carolina Borges & Deborah Lawlor
18:00 – 18:30 Group work* - All

TUESDAY 3 JULY 2018
14:00 – 14:30 Recap of Day 1 – Carolina Borges
14:30 – 16:00 LECTURE 2: Introduction to the principles of two-sample Mendelian randomization – Deborah Lawlor
16:00 – 16:30 Coffee
16:30 – 18:00 LECTURE 3: Testing the assumptions of two-sample Mendelian randomization – Carolina Borges
18:00 – 18:30 Group work* - All

WEDNESDAY 4 JULY 2018
14:00 – 14:30 Recap of Day 2 – Deborah Lawlor
14:30 – 16:00 PRACTICAL 2: Two-sample MR (data harmonisation and analysis) – Carolina Borges & Deborah Lawlor
16:00 – 16:30 Coffee
16:30 – 17:00 LECTURE 4: MR-Base platform introduction – Carolina Borges
17:00 – 18:00 PRACTICAL 3: Two-sample MR using the MR-Base platform - Carolina Borges & Deborah Lawlor
18:00 – 18:30 Group work* - All

THURSDAY 5 JULY 2018
14:00 – 14:30 Recap of Day 3 – Carolina Borges
14:30 – 16:00 Negative control studies and within sibship analyses – Deborah Lawlor
16:00 – 16:30 Coffee
16:30 – 17:30 Cross-context comparisons and Triangulation – Carolina Borges
17:30 – 18:30 Group presentations* & Thanks - All

*At the end of days 1 to 3 there will be (at least) 30 minutes for you to work in groups of 4-6. The aim of this group work is for you to design an MR study and then present that on Day 4
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

ENVIRONMENTAL EPIDEMIOLOGY
Josep M. Antó and Jordi Sunyer

MONDAY, JULY 2
14:30-16:30  Session 1: Environmental Epidemiology: from the burden of health to the health of the Palnet  (JM Antó)
17:00-18:30  Case study 1: Environmental risk factors in the Global Burden Disease Assessment (JM Antó, J Sunyer)

TUESDAY, JULY 3
14:30-15:30  Session 2: Exposome (J Sunyer)
15:30-16:30  Session 3: Designs for studying short-terms effectes (J Sunyer)
17:00-18:30  Case study 2: Temperature and mortality (J Sunyer, JM Antó)

WEDNESDAY, JULY 4
14:30-15:30  Session 4: The developmental origins of health and disease (J Sunyer)
15:30-16:30  Session 5: Urban built environment (J Sunyer)
17:00-18:30  Case study 3: Air pollution is a major threat for health: The BREATHE study (J Sunyer, JM Antó)

THURSDAY, JULY 5
14:30-16:30  Session 6: Risk and impact assessment of isolated and systemic risks (JM Antó)
17:00-18:30  Case study 4: The IARC risk assessment approach of carcinogenic hazards (JM Antó, J Sunyer)
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

CONCEPTS AND METHODS IN CAUSAL MEDIATION ANALYSIS
Bianca DeStavola

MONDAY 2 JULY 2018
14:30-18:30 Motivation and traditional mediation analysis (with computer practical)

TUESDAY 3 JULY 2018
14:30-18:30 Causal language and counterfactual-based mediation analysis (with computer practical)

WEDNESDAY 4 JULY 2018
14:30-18:30 Dealing with multiple mediators (with computer practical in Stata)

THURSDAY 5 JULY 2018
14:30-18:30 Further issues and discussion (with computer practical in Stata)
WEEK 3: 2-6 July 2018
Parallel morning and afternoon modules

Friday plenary session: 6 July, 09:30 – 11:30

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

  9.30 - 9.45 Introductions
  9.45 - 10.45 Olof Akre – The Saracci Lecture
  10.45 - 11.15 Coffee break
  11.15 - 11.45 Jorn Olsen – Fetal programming: new evidence
  11.45 - 12.00 Rodolfo Saracci – Closing remarks

12:30 – 13:00 Lorenzo Richiardi, Neil Pearce and Rodolfo Saracci
Certificates of attendance and goodbyes😊

End of EEPE 2018 Course
European Educational Programme in Epidemiology

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