

K.J. ROTHMAN

V. EHRENSTEIN

IN ROME for  
International Courses in

# Introduction to Epidemiology

October 16-20, 2017

Scientific Director Stefania Boccia

**Kenneth J. Rothman, Distinguished Fellow, RTI Health Solutions, Research Triangle Institute, NC, USA**  
**Vera Ehrenstein, Professor, Department of Clinical Epidemiology, Aarhus University Hospital Aarhus, Denmark**

## Rationale and Goals

Public-health and clinical research goals depend heavily on epidemiologic research. This introductory course in epidemiologic methods aims to provide participants with insight into the principles and techniques used to produce and interpret epidemiologic data. At the end of this course, participants will be able to apply a range of epidemiologic concepts to their research; to assess the reliability of published epidemiologic research; and to interpret the results. The course may also serve as a useful refresher for those already trained in epidemiology or public health.

## Faculty

**Kenneth J. Rothman** has focused his career on the development and teaching of the concepts and methods of epidemiologic research. He has authored or co-authored more than 350 scholarly publications, most of which are original epidemiologic research. His research has spanned a wide range of health problems, including cancer, cardiovascular disease, neurologic disease, birth defects, injuries, environmental exposures, and adverse effects of pharmaceutical agents. In an editorial capacity, he has served as assistant editor of the *American Journal of Public Health*, editor of the *American Journal of Epidemiology*, editorial board member of the *New England Journal of Medicine* and the international Advisory Board of *The Lancet*, as well as the founding editor of *Epidemiology*. He is a past president of the Society for Epidemiologic Research, an honorary fellow of the American College of Epidemiology, and a fellow of the International Society for Pharmacoeconomics. He has authored two widely read epidemiologic textbooks: *Modern Epidemiology* and *Epidemiology, An Introduction*.

**Vera Ehrenstein** conducts research in pharmacoepidemiology, perinatal and reproductive epidemiology, and clinical epidemiology of advanced cancer, using routinely collected data from Nordic registries and other medical databases. She has co-authored about 80 peer-reviewed publications and coordinates several multinational regulator-mandated postauthorisation safety studies. In her editorial capacity, she serves as an associate editor of the online peer-reviewed journal *Clinical Epidemiology*. She is currently the Chair of the Academic Council of the International Society for Pharmacoeconomics and is a member of the Steering Committee of the European Network of Centers of Pharmacoepidemiology and Pharmacovigilance (ENCePP). She has taught graduate-level courses in pharmacoepidemiology, clinical epidemiology, statistical analysis, and scientific writing.

## Course Content

This course will present the conceptual foundations of epidemiologic research, and the methodologic approaches that stem from these conceptual foundations. The course objective is to unify the approach to epidemiologic research around a coherent set of concepts. Specific topics will include a discussion of a general model of causation, causal inference, measurement of disease frequency and exposure effects, the principles of epidemiologic study design, cohort studies, case-control studies, the principles of epidemiologic data analysis, the assessment and control of confounding factors, stratified analysis, multivariable analysis, the evaluation of interaction, and the evaluation of dose-response trends. The course will include group discussions of published epidemiologic studies and computer laboratory exercises. Reference text: *Epidemiology: An Introduction*, by KJ Rothman.

## Timetable for the Course

Morning session: 9.00-12.15; afternoon session: 13.30-16.45.

## Who can attend

Graduates from schools of medicine, biology, dentistry, statistics, mathematics, social and health sciences are eligible. The courses might be open to participants of other parallel courses.

## Pre-requisites

Some basic knowledge of epidemiology and statistics is recommended. A good command of both written and spoken English is required. Participants are encouraged to bring their own laptop to the course.

## Official Language

English. No translation in Italian will be provided.

## Course Fee

€1300

Tuition fees include course materials, lunch, course attendance and the use of an internet connection. It does not include travel, breakfast or dinner, lodging, and other living costs.

Up to 20 applicants meeting the following conditions may apply to receive a 50% reduction in the course fee:

- age <30 years at the moment of course application
- PhD students or medical doctors currently attending a post-graduate school
- East-European or African.

15% reduced fee is reserved for 5 SISMEC-member applicants

Priority will be given to early applicants.

## Terms and Condition

If applications exceed 40, priority will be given according to date of application, on the basis of the number of courses to be attended by each participant (priority will be given to individuals following more courses), and of a review of the participants' *Curriculum Vitae* based on field pertinence and scientific publications.

## Application

Applicants may register on the web-site:

<http://fopecom-rm.unicatt.it/fopecomonline/default.aspx?Edizione=1&IdEvento=4351>

Start of acceptance of admission requests: 22<sup>nd</sup> May 2017. Course registration closes on 20<sup>th</sup> Sept 2017. Admission or non-admission will be communicated by email by the 22<sup>nd</sup> Sept 2017

and registration with payment will be required by the 30<sup>th</sup> Sept 2015. If the payment is not booked in our account within this timetable, participation in the course cannot be guaranteed.

All cancellations must be in writing and faxed or emailed to the organization staff. If you are unable to attend, a substitute is welcome at no extra charge. Please be sure that he or she can present identification and a letter from the registered participant.

## Refunds:

- Refunds exclude an administrative fee of €100;
- Refunds will be handled 4 to 6 weeks after the closing of the Course.

## Venue

Centro Congressi Europa - Sala Germania  
 Faculty of Medicine "A. Gemelli"  
 Università Cattolica del Sacro Cuore  
 Largo Francesco Vito, 1 - 00168 Rome

## Accommodation

You can contact and book your room at the University Campus "La Residenza Protetta" Tel. +39 06 3050901. Less expensive rooms may be available within walking distance or within 5-10 minutes travel on the underground (check on the web Monte Mario - Trionfale quarter).

## Further Information

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## Organization

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