

25th International Epidemiology Summer School

June 21 – June 26, 2010

Münster, Germany



Westfälische Wilhelms-Universität

Akademie für öffentliche Gesundheit e.V. Bochum

WHO Collaborating Centre for Epidemiology and Prevention of
Cardiovascular and Other Chronic Diseases, Münster



Brief History of the International Epidemiology Summer Schools

1980	München, GSF Medis-Institut
1982	München, GSF Medis-Institut
1984	München, GSF Medis-Institut
1987	Schmallenberg/Sauerland IDIS and Ruhr-Universität Bochum
1988	Bielefeld, IDIS and Ruhr-Universität Bochum
1989	Bochum, Ruhr-Universität and IDIS Bielefeld
1990	Bochum, Ruhr-Universität
1991	Bochum, Ruhr-Universität
1992	Bochum, Ruhr-Universität
1993	Bochum, Ruhr-Universität
1994	Bochum, Ruhr-Universität
1995	Münster, Westfälische Wilhelms-Universität
1996	Münster, Westfälische Wilhelms-Universität
1997	Münster, Westfälische Wilhelms-Universität
1998	Münster, Westfälische Wilhelms-Universität
1999	Münster, Westfälische Wilhelms-Universität
2000	Berlin, Max-Delbrück-Centrum
2001	Münster, Westfälische Wilhelms-Universität
2002	Münster, Westfälische Wilhelms-Universität
2005	Münster, Westfälische Wilhelms-Universität
2006	Münster, Westfälische Wilhelms-Universität
2007	Münster, Westfälische Wilhelms-Universität
2008	Münster, Westfälische Wilhelms-Universität
2009	Münster, Westfälische Wilhelms-Universität

Welcome Address

The International Epidemiology Summer School is the oldest such institution in Germany. It was founded in Munich in 1980 and came to Münster in 1995.

In 2010 it will take place for the 25th time. Because of this 25 year anniversary the working group on "Medizinische Prävention" and "Münster Marketing", representing the universities of Münster and the City of Münster, respectively, will give a reception at the historical Friedenssaal in the very centre of Münster on Wednesday, June 23, 2010 at 19:00 hours. All faculty and fellows are warmly invited to this important social event. A special program will be provided in due time.

To all faculty and fellows we wish a successful summer school, a pleasant stay in the beautiful city of Münster and a nice anniversary celebration.

Ulrich Keil

Course Outline

The International Epidemiology Summer School offers both introductory and advanced courses and therefore will meet the needs of health professionals, scientists and students interested in epidemiology, prevention and public health. Enrollment is open for epidemiologists, physicians, clinicians, nutritionists, social scientists, statisticians, occupational and environmental scientists, health administrators, economists, and allied health professionals. The working language of the courses will be English.

1 Introduction to Principles and Methods of Epidemiology

Julie Buring, Harvard University, Boston

Tobias Kurth, INSERM Unit 708, Paris and Harvard University, Boston

The objective of this course is to develop the participants' ability to critically evaluate the quality of published medical literature. This will be accomplished by acquainting the participants with the basic principles and methods of the design, conduct and interpretation of epidemiologic studies. Particular emphasis will be placed on the various epidemiologic strategies, such as descriptive studies (case-reports and case series, ecologic studies and cross-sectional surveys), observational analytic studies (case-control and cohort) and randomized clinical trials. In addition, the course will include basic biostatistical techniques for the presentation and analysis of data and the understanding of statistical association as well as cause and effect relationships. Actual examples will be provided from the published medical literature.

2 Introductory Statistics for Epidemiologists

Lloyd Chambless, University of North Carolina at Chapel Hill

This course is an introduction to biostatistics that provides basic statistical concepts needed in epidemiological research. This will include some basic probability concepts, the concept of a random variable and its distribution, binomial and Gaussian distributions, methods to summarize information about a variable, sampling, hypothesis testing, p-values, estimation, and confidence intervals. We will apply these to some basic epidemiological measures of association, such as relative risk and odds ratio.

3 Introduction to Clinical Trials

Edward Davis, University of North Carolina at Chapel Hill

An introduction to the major practical concepts in the design, conduct and analysis of randomized clinical trials. Topics include: equipoise and when should a clinical trial be initiated; a survey of possible designs including parallel groups, crossover, factorial, sequential and non-inferiority designs; randomization methods; blinding; monitoring for adverse effects of therapy; issues in data analysis including intention to treat, covariate adjustment, subgroups, and multiple responses; the role of data monitoring committees and statistical methods for monitoring accumulating data.

4 Advanced Cardiovascular and Stroke Epidemiology

Ulrich Keil, University of Münster
Peter Heuschmann, Charité Berlin

This course will provide a state-of-the-art update in cardio- and cerebrovascular epidemiology. A number of currently hotly debated topics will be addressed such as: estimating time trends in CVD occurrence; clarifying causes of increased CVD risk in specific population groups, e.g. migrants; explaining the causes of the increasing life expectancy in the western world; the role of salt on hypertension and other cardiovascular diseases; estimating the impact of environmental factors, such as passive smoking, on CVD mortality and morbidity. New concepts in clinical epidemiology will be introduced including examples of their application in current studies such as: raising the profile of register studies for epidemiological purposes; estimating attributable risks in clinical data using novel approaches; defining and measuring relevant health outcomes; generating long term outcome data. The increasing importance of health care epidemiology for improving current medical practice will be addressed such as: introducing methods how to measure quality of health care; identifying effective ways of translating research evidence into clinical practice; defining the potential use of routine data for improving medical practice. Practical examples and various exercises will illustrate the course.

5 The Epidemiology of Mental Health

Bernhard Baune, James Cook University, Townsville, Australia
Steffi Riedel-Heller, University of Leipzig

Mental illnesses are among the leading causes of burden of disease worldwide according to WHO spanning all age groups. While many mental disorders have their onset in the first three decades, long-term consequences of mental disorders with regard to physical and mental well-being become apparent only later in life. Increasing incidence and prevalence of medical illnesses in later life, which are partly due to previous mental disorders, share common risk factors with mental illnesses. Aim of the course is to introduce the participants to concepts and risk factors of mental health, important medical diseases affecting mental health and vice versa, and to summarize biological pathways that underlie these illnesses. While frequency and risk factors of several mental illnesses will be presented, the focus will be on mood disorders and dementia. Disease frequencies from important international studies and methods to assess and classify mental illness will be presented in population-based studies, patient registers and clinical cohorts. The successful participant will have a better understanding of the concepts of mental health, the importance of mental health for medical disease and physical well-being in general, as well as its interdisciplinary reasoning.

6 An Introduction to Propensity Score Analyses

Tobias Kurth, INSERM Unit 708, Paris and Harvard University, Boston

Saturday, June 26, 2010 – 9:00 a.m. – 1:00 p.m.

The objective of this course is to introduce propensity score analyses based on clinical examples and theoretical considerations. Particular emphasis will be placed on how to construct a propensity score model and on how to utilize the propensity score to adjust for confounding. Whether the propensity score differs compared with other methods of confounding control will also be discussed. Participants will receive theoretical and practical examples of propensity score analyses from the literature. This course is particularly recommended for individuals with interest in pharmacoepidemiology. Upon completion of the course, participants will have an overview of what propensity score methods can and cannot accomplish.

Evening Lecture - Tuesday, June 22, 2010 - 6:00 p.m.

25 years of changes in cardiovascular epidemiology

Julie Buring, Harvard University, Boston

Faculty

Professor Bernhard T. Baune
James Cook University
School of Medicine and Dentistry
Faculty of Medicine, Health & Molecular Sciences
Psychiatry & Psychiatric Neuroscience
Townsville, Australia

Professor Julie Buring
Harvard University
Medical School
Department of Preventive Medicine and Epidemiology
Boston, MA

Professor Lloyd Chambless
University of North Carolina at Chapel Hill
School of Public Health
Department of Biostatistics
Chapel Hill, NC 27514

Professor Edward Davis
University of North Carolina
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Professor Peter Heuschmann
Center for Stroke Research Berlin
Charité University Medicine
10098 Berlin

Professor Ulrich Keil
Universität Münster
Institut für Epidemiologie und Sozialmedizin
48129 Münster

Professor Tobias Kurth
INSERM Unit 708 – Neuroepidemiology
Hôpital de la Pitié-Salpêtrière
Paris
and
Harvard University
Medical School
Department of Preventive Medicine and Epidemiology
Boston, MA

Professor Steffi Riedel-Heller
Universität Leipzig
Zentrum für Psychische Gesundheit
Klinik und Poliklinik für Psychiatrie
Leipzig

Dates	June 21 – June 25, 2010 Monday – Friday 8:30 am – 12:00 2:00 pm – 5:30 pm Saturday, June 26 9:00 am – 1:00 pm
Location	Stadthotel Münster Lecture Halls Aegidiistr. 21 48143 Münster
Accommodation	The Stadthotel Münster is nicely situated close to the picturesque inner city of Münster and very close to the Aasee. Münster's wonderful Botanical Garden in the Schlosspark and the Picasso Museum are within walking distance from the hotel. Summer School participants can be accommodated at the Stadthotel Münster.
Fees	€ 350 per course for regular participant € 250 per course for members of the DG-Epi and employees of the University Hospital Münster € 100 for medical students € 100 for those who attend only the Saturday course
Bank Transfer to:	Akademie für öffentliche Gesundheit Sparkasse Bochum BLZ 430 500 01 Kto 33 30 80 16 Swift WELADED1BOC IBAN DE45430500010033308016 Keyword: Summer School
Application	Please use the enclosed application form
Deadline	June 7, 2010. The number of participants is limited.
Program Director	Professor Dr. med. Ulrich Keil, FRCP
Further information	Carmen Ewe Institut für Epidemiologie und Sozialmedizin Domagkstr. 3 48129 Münster, Germany Phone: *49 (0)251 83-55397 Fax: *49 (0)251 83-55300 e-mail: ewe@uni-muenster.de

Registration Form

25th International Epidemiology Summer School Münster
June 21– June 26, 2010

Male Female

Family name, degree _____

First name _____

Present occupation _____

Address _____

Phone _____

Fax _____

E-mail _____

Status

Regular Participant

DGEpi-member or employee of the University of Münster

Medical student

I would like to register for the following course(s):

Monday – Friday 8:30 am – 12:00

Course 1 Introduction to Principles and Methods of Epidemiology

Course 3 Introduction to Clinical Trials

Monday - Friday 2:00 pm – 5:30 pm

Course 2 Introductory Statistics for Epidemiologists

Course 4 Advanced Cardiovascular and Stroke Epidemiology

Course 5 The Epidemiology of Mental Health

Saturday 9:00 am – 1:00 pm

Course 6 An Introduction to Propensity Score Analyses

Date

Signature

Please return to:

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