

Introduction to Epidemiology and Study Designs

Description

According to the dictionary of epidemiology, «Epidemiology is the study of the distribution and determinants of health-related states or events in specified populations and the application of this study to control of health problems». In this course module we will cover basic epidemiologic terms and definitions, as well as the main epidemiologic quantities we get presented in public health related publications and in clinical studies. Furthermore, you will learn to identify the study designs most often used in population-based and clinical epidemiology.

Objectives

Basic terms in demography (sex and age structure of the population, birth and death rates, life expectancy and infant mortality) Study designs we cover: Cross-sectional, cohort and case-control studies, intervention studies and diagnostic accuracy studies Basic quantities in epidemiology: Prevalence, incidence rates (crude and age-adjusted), risk ratio, risk difference, number needed to treat, odds ratio, sensitivity, specificity.

Dates

31 May and 04 June 2018

Eligibility

Students of the SSPH+ PhD Program in Public Health

Course Structure

The course consists of two days of work in class and completion of tasks between the two days. The course follows in part the textbook «Epidemiology» of Leon Gordis. The relevant chapters will be made available to the course participants and some reading (about 100 pages) will be necessary before the first day and between the two course days

Assessment

Written exam during the course

SSPH+PhD Program:

Program Coordination Ann Walser

Academic Lead Prof. Matthias Egger
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Credits

1 ECTS

Preliminary Work: 12 h , Contact: 13 h , Off class work between the two course days: 12 h

(1 ECTS corresponds to appr. 30 hours' work)

Facilitator

Prof. Claudia Kuehni, Institute of Social and Preventive Medicine, University of Bern

Prof. Marcel Zwahlen, Institute of Social and Preventive Medicine, University of Bern

Location

University of Bern, Room: tba

Course Fees

SSPH+ PhD Students o.- CHF

Registration

[Please register online on our homepage](#)

Registration is only possible for SSPH+ students

Deadline

21 March 2018

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