

Evaluation Methods in Public Health and Health Care

Overview

This course provides theory on and practice of the

- Approaches, concepts, and methods used to evaluate public health and health care interventions;
- Critical appraisal of existing evaluations;
- Planning and conduct of evaluations

Offered By

- TUM Professorship of Public Health & Prevention (Prof. Dr. Michael Laxy)

Lecturers

- Prof. Dr. Michael Laxy
- Dr. Michael Hanselmann
- Dr. Anna-Janina Stephan
- Dr. Jacob Burns (*contact*)
- Karl Emmert-Fees



Evaluation Methods in Public Health and Health Care

Learning Objectives

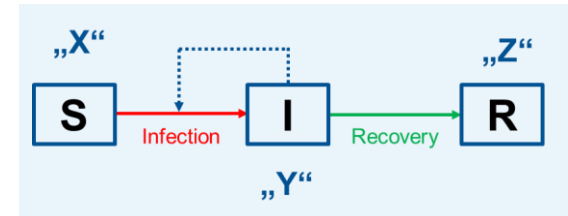
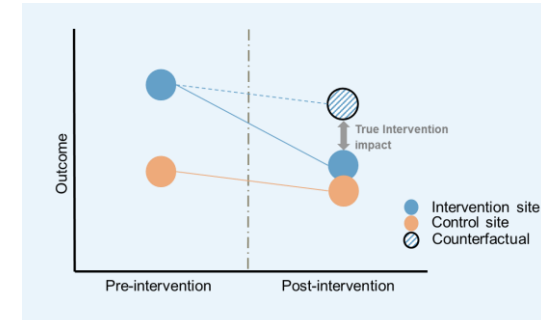
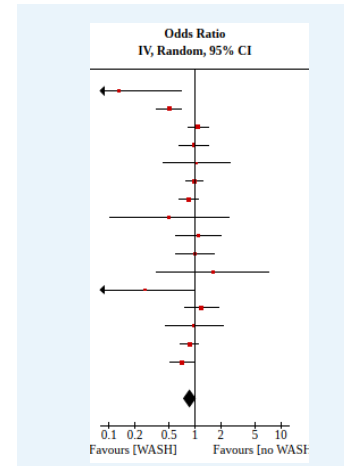
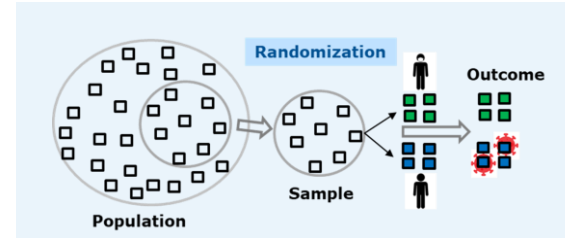
- Understand, explain and apply a variety of state-of-the-art evaluation methods in the context of public health and health care intervention;
- Understand and explain different types of study designs and analytical approaches including their strengths, weaknesses, and assumptions;
- Perform the necessary analytical steps and estimations in an evaluation context and interpret graphical illustrations;

Learning Objectives (c'td)

- Analyze and critically discuss scientific evaluation studies in the context of public health interventions;
- Develop evaluation/analysis designs on their own and conduct empirical analyses based on simple data sets, data set descriptions, and corresponding research questions;
- Understand how evaluation results can be critically appraised and synthesized to support policy decisions.

Structure

- Block 1: Introduction to evaluation methods and concepts
- Block 2: Experimental evaluations (RCTs)
- Block 3: Quasi-experimental evaluations
- Block 4: Non-experimental evaluations
- Block 5: Evidence synthesis
- Block 6: Model-based evaluations
- Each block comprises approx. 50%/50% theory and practice



Prerequisites

Basic knowledge of

- Study designs
- Mathematics and statistics
- Use of the statistical software package R

** For those students who feel that they might have knowledge gaps in R or want to refresh their knowledge for this course, an online R self-learn module will be offered*

ECTS & SWS

- 12 ECTS
- 4 SWS

Course Language

- English

Examination Format

- Seminar report
- Oral examination

Position in the Program

- Elective area “Applied Research”
- The course takes place over two semesters:
 - 2nd Semester, Summer Term
 - 3rd Semester, Winter term