



**COLLEGE OF PUBLIC HEALTH**  
**University of the Philippines Manila**

SEAMEO TROPED Philippines  
Regional Centre for Public Health, Hospital Administration,  
Environmental and Occupational Health

The Department of Epidemiology and Biostatistics invites you to an online short course on

# BASIC BIOSTATISTICS & EPIDEMIOLOGY FOR HEALTH RESEARCH

## COURSE DESCRIPTION

This four-day synchronous online course (open cam policy) is designed to introduce fundamental concepts of biostatistics and epidemiology; and apply them in the development and conduct of health research.

Interested participants, health professionals, researchers, health sciences educators, and students can attend the course.

## LEARNING OBJECTIVES

At the end of the seminar-workshop, the participants will be able to:

- employ statistical tools in describing, summarizing, and presenting quantitative data;
- apply principles and methods in statistical inference (e.g., estimation and hypothesis testing);
- apply appropriate techniques and tools in measuring the distribution of health and disease and identifying factors that contribute to occurrence of health and disease; and
- apply basic concepts in biostatistics and epidemiology in the planning and conduct of health research.



**CPD UNITS** will be applied for Nursing,  
Medicine, and Medical Technology

## REGISTRATION FEE

|                                |           |
|--------------------------------|-----------|
| UP Manila Employees & Students | Php 7,000 |
| Non-UP Manila Participants     | Php 8,000 |

Limited slots are available, thus if the target number of paid participants is not met by the 2nd week of June 2023, the short course will be cancelled and payment of registration fees will be returned.

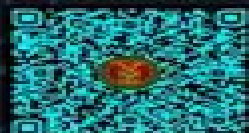
## COURSE SCHEDULE

Saturdays of July 2023 ( July 1, 8, 15 & 22 )  
08:00 AM - 05:00 PM

## JOIN US ONLINE

Register by accomplishing this form - <https://tinyurl.com/2023DEBsBasicBEHR>

For further inquiries, you may contact Ms. Michelle Aguilar or reach out to us via (02) 8526-0784.



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SUSTAINABLE  
DEVELOPMENT **GOALS**

# Biostatistics And Epidemiology Biostatistics And Epidemiology

**Sylvia Wassertheil-Smoller**



## **Biostatistics And Epidemiology Biostatistics And Epidemiology:**

*Biostatistics and Epidemiology* Sylvia Wassertheil-Smoller, Jordan Smoller, 2015-02-05 Since the publication of the first edition *Biostatistics and Epidemiology* has attracted loyal readers from across specialty areas in the biomedical community. Not only does this textbook teach foundations of epidemiological design and statistical methods but it also includes topics applicable to new areas of research. Areas covered in the fourth edition include a new chapter on risk prediction, risk reclassification and evaluation of biomarkers, new material on propensity analyses and a vastly expanded chapter on genetic epidemiology which is particularly relevant to those who wish to understand the epidemiological and statistical aspects of scientific articles in this rapidly advancing field. *Biostatistics and Epidemiology* was written to be accessible for readers without backgrounds in mathematics. It provides clear explanations of underlying principles as well as practical guidelines of how to do it and how to interpret it. Key features include a philosophical and logical explanation at the beginning of the book, subsections that can stand alone or serve as reference, cross referencing, recommended reading and appendices covering sample calculations for various statistics in the text.

**Biostatistics and Epidemiology** Sylvia Wassertheil-Smoller, 2013-03-09 *Biostatistics and Epidemiology: A Primer for Health Professionals* offers practical guidelines and gives a concise framework for research and interpretation in the field. In addition to major sections covering statistics and epidemiology, the book includes a comprehensive exploration of scientific methodology, probability and the clinical trial. The principles and methods described in this book are basic and apply to all medical subspecialties, psychology and education. The primer will be especially useful to public health officials and students looking for an understandable treatment of the subject.

**Clinical Epidemiology and Biostatistics** Michael S. Kramer, 2012-12-06 Here is a book for clinicians, clinical investigators, trainees and graduates who wish to develop their proficiency in the planning, execution and interpretation of clinical and epidemiological research. Emphasis is placed on the design and analysis of research studies involving human subjects where the primary interest concerns principles of analytic cause and effect inference. The topic is presented from the standpoint of the clinician and assumes no previous knowledge of epidemiology, research design or statistics. Extensive use is made of illustrative examples from a variety of clinical specialties and subspecialties. The book is divided into three parts. Part I deals with epidemiological research design and analytic inference including such issues as measurement rates, analytic bias and the main forms of observational and experimental epidemiological studies. Part II presents the principles and applications of biostatistics with emphasis on statistical inference. Part III comprises four chapters covering such topics as diagnostic tests, decision analysis, survival, life table analysis and causality.

**Fundamentals of Epidemiology and Biostatistics** Ray M. Merrill, 2013 Includes fold out companion website information guide.

**Biostatistics and Epidemiology** Sylvia Wassertheil-Smoller, 2014-01-15 [Epidemiology and Biostatistics](#) Bryan Kestenbaum, 2009-08-28 This textbook was born from a disparate collection of written materials that were created to teach Epidemiology and Biostatistics to second year

medical students at the University of Washington These materials included handouts practice problems guides to reading research articles quizzes notes from student help sessions and student emails The primary goal of these written materials and now this book is to recreate the perspective of learning Epidemiology and Biostatistics for the first time With critical editing assistance from Epidemiology faculty graduate students in Epidemiology and Biostatistics and the students themselves I have tried to preserve the innate logic and connectedness of clinical research methods and to demonstrate their application The textbook is designed to provide students with the tools necessary to form their own informed conclusions from the clinical research literature More than ever a clear understanding of the fundamental aspects of Epidemiology and Biostatistics is needed to successfully navigate the increasingly complex methods utilized by modern clinical research studies This book could not have been created without the dedicated help of the e tors the teaching assistants and the students who asked the important questions I would especially like to thank my family who patiently allowed me so much time to write

**High-Yield Biostatistics, Epidemiology, and Public Health** Anthony N. Glaser, 2013-03-01 High Yield™ Biostatistics Epidemiology and Public Health Fourth Edition provides a concise review of the biostatistics concepts that are tested in the USMLE Step 1 Information is presented in an easy to follow format with High Yield Points that help students focus on the most important USMLE Step 1 facts The High Yield™ outline format with tables diagrams photographs and images to clarify important material provides a concentrated efficient review for both course exams and the USMLE Biostatistics and Epidemiology, 1982 **Biostatistics for Epidemiology and Public Health Using R** Bertram K.C. Chan, 2015-11-05

Since it first appeared in 1996 the open source programming language R has become increasingly popular as an environment for statistical analysis and graphical output In addition to being freely available R offers several advantages for biostatistics including strong graphics capabilities the ability to write customized functions and its extensibility This is the first textbook to present classical biostatistical analysis for epidemiology and related public health sciences to students using the R language Based on the assumption that readers have minimal familiarity with statistical concepts the author uses a step bystep approach to building skills The text encompasses biostatistics from basic descriptive and quantitative statistics to survival analysis and missing data analysis in epidemiology Illustrative examples including real life research problems and exercises drawn from such areas as nutrition environmental health and behavioral health engage students and reinforce the understanding of R These examples illustrate the replication of R for biostatistical calculations and graphical display of results The text covers both essential and advanced techniques and applications in biostatistics that are relevant to epidemiology This text is supplemented with teaching resources including an online guide for students in solving exercises and an instructor s manual **KEY FEATURES** First overview biostatistics textbook for epidemiology and public health that uses the open source R program Covers essential and advanced techniques and applications in biostatistics as relevant to epidemiology Features abundant examples and exercises to illustrate the application of R language for biostatistical

calculations and graphical displays of results Includes online student solutions guide and instructor s manual  
*to Epidemiology and Biostatistics* John Richard Hebel,Robert J. McCarter,2006 Epidemiology Biostatistics

*Study Guide*

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