

1. Record Nr.	UNINA9910349350103321
Autore	Krickeberg Klaus
Titolo	Epidemiology : Key to Public Health / / by Klaus Krickeberg, Pham Van Trong, Pham Thi My Hanh
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-16368-7
Edizione	[2nd ed. 2019.]
Descrizione fisica	1 online resource (XVII, 264 p. 5 illus.)
Collana	Statistics for Biology and Health, , 1431-8776
Disciplina	614.4 519.5
Soggetti	Statistics Epidemiology Biometry Statistics for Life Sciences, Medicine, Health Sciences Biostatistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	The idea of epidemiology -- Uses and applications of epidemiology -- Some case studies and situation analyses -- Infectious diseases: descriptive epidemiology, transmissions, surveillance, control -- Infectious diseases: modelling, immunity -- Diarrhoea and cholera -- Tuberculosis and malaria -- Dengue fever -- Viral hepatitis -- HIV/AIDS -- The origin of information: registers and health information systems -- The origin of information: sampling -- Descriptive data analysis and statistics -- The normal law and applications: Sample size, confidence intervals, tests -- Basic concepts of epidemiology -- Cross-sectional studies -- Cohort studies -- Clinical (therapeutic) trials -- Clinical epidemiology -- Case-control studies -- Confounding -- Epidemiology of cancer -- Epidemiology of cardiovascular diseases -- Community studies -- Nutritional and environmental epidemiology -- Social and genetic epidemiology -- Some practical considerations around epidemiologic studies -- What is missing? -- The role of epidemiology in building coherent systems of public health.
Sommario/riassunto	This unique textbook presents the field of modern epidemiology as a

whole; it does not restrict itself to particular aspects. It stresses the fundamental ideas and their role in any situation of epidemiologic practice. Its structure is largely determined by didactic viewpoints. Epidemiology is the art of defining and investigating the influence of factors on the health of populations. Hence the book starts by sketching the role of epidemiology in public health. It then treats the epidemiology of many particular diseases; mathematical modelling of epidemics and immunity; health information systems; statistical methods and sample surveys; clinical epidemiology including clinical trials; nutritional, environmental, social, and genetic epidemiology; and the habitual tools of epidemiologic studies. The book also reexamines the basic difference between the epidemiology of infectious diseases and that of non-infectious ones. The organization of the topics by didactic aspects makes the book ideal for teaching. All examples and case studies are situated in a single country, namely Vietnam; this provides a particularly vivid picture of the role of epidemiology in shaping the health of a population. It can easily be adapted to other developing or transitioning countries. This volume is well suited for courses on epidemiology and public health at the upper undergraduate and graduate levels, while its specific examples make it appropriate for those who teach these fields in developing or emerging countries. New to this edition, in addition to minor revisions of almost all chapters: • Updated data about infectious and non-infectious diseases • An expanded discussion of genetic epidemiology • A new chapter, based on recent research of the authors, on how to build a coherent system of Public Health by using the insights provided by this volume. .
