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This workbook was written for students of epidemiology and serves as a supplement to any one of several introductory text books in epidemiology. Each chapter is divided into an introduction, a series of questions and detailed responses, and a series of Homework questions.

Principles of Epidemiology Workbook: Exercises and ...

At the end of each chapter is a table with a list of selected epidemiology text books with accompanying chapters in those books that the workbook chapter may supplement. The general learning outcomes (LOs) for this workbook are: 1. Become familiar with basic concepts and definitions commonly used in epidemiology 2. Define a public health problem 3.

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Principles of Epidemiology Workbook: Exercises and Activities. Written by the best-selling author of Introduction to Epidemiology, this interactive workbook will engage your students in learning and prepare them to successfully evaluate public health programs and effectively communicate information that can inform public health officials and individuals.

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Exercise 1.2 Having identified a cluster of cases never before seen in the area, public health officials must seek additional information to assess the community's health. Is the cluster limited to persons who have just returned from traveling where West Nile virus infection is common, or was the infection acquired locally, indicating that ...

Principles of Epidemiology | Lesson 1 - Exercise Answers ...

Calculate and interpret mean, median, mode, ranges, variance, standard deviation, and confidence interval. Prepare and apply tables, graphs, and charts such as arithmetic-scale line, scatter diagram, pie chart, and box plot. Describe the processes, uses, and evaluation of public health surveillance.

Principles of Epidemiology: Home/Self-Study Course SS1978/CDC

" This workbook features: - Over 100 questions drawn from actual studies - Answers conveniently provided behind each question, allowing students to compare notes with a senior epidemiologist - Seven chapters organized around basic epidemiologic principles, such as confounding, cohort studies, and multiple causal pathways - Case examples that increase in complexity and difficulty throughout ...

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Key terms in this definition reflect some of the important principles of epidemiology. The incorporation of case studies and links to online resources in each chapter lend real-world experience and help bring the content to life. Concepts of Epidemiology comprehensively describes the application of core epidemiological concepts and principles to readers interested in population health research ...

principles of epidemiology

Principles of Epidemiology Workbook: Exercises and Activities. Ray Merrill ... Perfect as a companion resource to any introductory Epidemiology text, Principles of Epidemiology Workbook provides an introduction to epidemiologic methodology for conducting public health assessment. Readers will come away with solid foundation of basic causal ...

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Introduction to Epidemiology, Seventh Edition is a comprehensive, reader-friendly introduction to this exciting field. Designed for students with minimal training in the biomedical sciences and statistics, this text emphasizes the application of the basic principles of epidemiology according to person, place, and time factors in order to solve current, often unexpected, and serious public ...

Introduction to Epidemiology | Ray M. Merrill | download

The general learning outcomes (LOs) for this workbook are: 1. Become familiar with basic concepts and definitions commonly used in epidemiology 2. Define a public health problem 3.

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Identify appropriate uses and limitations of data and research design strategies for solving public health problems 4.

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Find many great new & used options and get the best deals for Principles of Epidemiology : Exercises and Activities by Ray M. Merrill (2010, Trade Paperback, Revised edition, Workbook, New Edition) at the best online prices at eBay! Free shipping for many products!

Written by the best-selling author of Introduction to Epidemiology, this interactive workbook will engage your students in learning and prepare them to successfully evaluate public health programs and effectively communicate information that can inform public health officials and individuals. Divided into five chapters, the book covers assessment, disease etiology and investigation, clinical topics, evaluation, and communication. Definitions of statistical concepts and terms used in medical and epidemiologic literature are provided throughout. Perfect as a companion resource to any introductory Epidemiology text, Principles of Epidemiology Workbook provides an introduction to epidemiologic methodology for conducting public health assessment. Readers will come away with solid foundation of basic causal theory for identifying determinants of adverse health-related states or events and will gain a better understanding of the biological principles underlying the natural course of disease.

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This workbook was written for students of epidemiology and serves as a supplement to any one of several introductory text books in epidemiology. Each chapter is divided into an introduction, a series of questions and detailed responses, and a series of Homework questions. At the end of each chapter is a table with a list of selected epidemiology text books with accompanying chapters in those books that the workbook chapter may supplement. The general learning outcomes (LOs) for this workbook are: 1. Become familiar with basic concepts and definitions commonly used in epidemiology 2. Define a public health problem 3. Identify appropriate uses and limitations of data and research design strategies for solving public health problems 4. Make relevant inferences from quantitative and qualitative data 5. Distinguish between statistical association and cause-effect relationships 6. Measure and describe patterns of disease incidence, prevalence, and mortality 7. Identify environmental factors and behaviors associated with health-related states or events 8. Be familiar with the steps for investigating disease outbreaks 9. Identify, calculate, and interpret common indices used in identifying the health status 10. Evaluate program effectiveness 11. Critically assess epidemiological research 12. Be able to communicate health findings Each chapter features: • 10-20 mastery check questions with detailed answers • 5 optional problems • A case study • A multiple choice, short answer quiz. (Answers to the cases and quizzes are provided as part of the online instructor resource package.)

Principles of Epidemiology: A Self-Teaching Guide consists of a series of problem-solving exercises designed to introduce and guide readers toward an understanding of the principles

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and methods of epidemiology, rather than the epidemiology of specific diseases or subject areas such as "infectious disease" or "chronic disease" epidemiology. The guide has been formulated to be used by itself or as a supplement to standard textbooks. It illustrates and illuminates the principles and concepts of epidemiology and provides the reader an opportunity to practice the application of these principles in a logical sequence. The guide is divided into 14 exercises. Each exercise will help readers to understand principles or methods used by epidemiologist. Topics covered include the patterns of disease, populations at risk and risk assessment, screening for disease, investigation of an epidemic, etiology of disease, principles of causation, study design in epidemiologic investigation, data interpretation, and the uses and applications of epidemiology.

Traditional epidemiology coursework is centered on the design and analysis of disease control. This important knowledge forms the backbone of what epidemiology is, but it can sometimes become a rote exercise in calculations rather than what it can and should be--training in thinking like an epidemiologist. EXERCISES IN EPIDEMIOLOGY enriches the core epidemiology coursework with a set of living, breathing problems from the real-world epidemiology literature. Comprising nearly 200 questions and answers drawn from published studies, this one-of-a-kind text allows students in epidemiology and public health to cultivate their skills in a real-world context while familiarizing themselves with core epidemiologic principles: rates and proportions, causal inference, and confounding. Answers to every question, along with each step in the reasoning that supports them, are included so that students can compare notes with a senior epidemiologist. With its practical, analytically

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sophisticated approach to this vital subject matter, EXERCISES IN EPIDEMIOLOGY prepares readers to make the transition from student to professional like no other text.

Epidemiology is a population science that underpins health improvement and health care, by exploring and establishing the pattern, frequency, trends, and causes of a disease. Concepts of Epidemiology comprehensively describes the application of core epidemiological concepts and principles to readers interested in population health research, policy making, health service planning, health promotion, and clinical care. The book provides an overview of study designs and practical framework for the geographical analysis of diseases, including accounting for error and bias within studies. It discusses the ways in which epidemiological data are presented, explains the distinction between association and causation, as well as relative and absolute risks, and considers the theoretical and ethical basis of epidemiology both in the past and the future. This new edition places even greater emphasis on interactive learning. Each chapter includes learning objectives, theoretical and numerical exercises, questions and answers, a summary of the key points, and exemplar panels to illustrate the concepts and methods under consideration. Written in an accessible and engaging style, with a specialized glossary to explain and define technical terminology, Concepts of Epidemiology is ideal for postgraduate students in epidemiology, public health, and health policy. It is also perfect for clinicians, undergraduate students and researchers in medicine, nursing and other health disciplines who wish to improve their understanding of fundamental epidemiological concepts.

This textbook describes the most common biostatistical measures used in epidemiology,

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methods of comparing rates, and methods for assessing the accuracy of epidemiologic findings. Oleckno (Northern Illinois University) compares the strengths and weaknesses of ecological, cross-sectional, case control, and cohort studies. The instructor's CD-ROM contains applets for solving epidemiologic problems. Annotation copyrighted by Book News, Inc., Portland, OR

Through a combination of descriptive text and exercises, this book presents an accessible framework for the planning and critical evaluation of epidemiologic studies. It describes the principal sources of error, their impact on the results, and the research strategies used to prevent errors. These strategies are the building blocks of epidemiologic study design which generally seek to obtain accurate results despite the employment of limited resources. The volume is illustrated with examples and exercises from studies published in international journals. It starts with an introduction of basic concepts, followed by a discussion of the basics of selecting the study population and follow-up period, asking the right questions, obtaining information on exposures, and analyzing disease occurrence. Separate treatment is given to strategies specific to case-control or experimental studies. Each step in the planning or critical evaluation of a study is illustrated by exercises covering a wide range of exposures--dietary factors, tobacco, alcohol, drugs, radiation and occupational hazards among others--and diseases such as cancer, cardiovascular disease, diabetes, and psychiatric disorders. The book concludes with an overall review of the different aspects of study design and a set of answers to the exercises. The text will equip students with a clear and thorough understanding of the design and accuracy of epidemiologic studies.

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Highly praised for its broad, practical coverage, the second edition of this popular text incorporated the major statistical models and issues relevant to epidemiological studies. Epidemiology: Study Design and Data Analysis, Third Edition continues to focus on the quantitative aspects of epidemiological research. Updated and expanded, this edition

This workbook is designed to teach the major fundamental concepts in Epidemiology, Biostatistics, and clinical research design alongside the textbook "Epidemiology and Biostatistics, 2nd Edition". It is written in concise and organized fashion with many examples to illustrate the concepts deriving from a collection of written materials created to teach Epidemiology and Biostatistics to medical students. The major differences from related titles include a "story" based approach toward teaching the material, relative brevity while maintaining focus on key concepts, and taking the perspective of first-time learners (avoiding and/or clearly defining jargon, using clear common-sense language). It features a variety of questions: long, short, and multiple choice questions. The workbook is made to provide students with the tools necessary to form their own informed conclusions from the clinical research literature.

The demand for health information continues to increase, but the ability of health professionals to provide it clearly remains variable. The aim of this book is (1) to summarize and synthesize research on the selection and presentation of data pertinent to public health, and (2) to provide practical suggestions, based on this research summary and synthesis, on how scientists and

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other public health practitioners can better communicate data to the public, policy makers, and the press in typical real-world situations. Because communication is complex and no one approach works for all audiences, the authors emphasize how to communicate data "better" (and in some instances, contrast this with how to communicate data "worse"), rather than attempting a cookbook approach. The book contains a wealth of case studies and other examples to illustrate major points, and actual situations whenever possible. Key principles and recommendations are summarized at the end of each chapter. This book will stimulate interest among public health practitioners, scholars, and students to more seriously consider ways they can understand and improve communication about data and other types of scientific information with the public, policy makers, and the press. Improved data communication will increase the chances that evidence-based scientific findings can play a greater role in improving the public's health.

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