Public Health Data Management

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Essentials of Health Information Management

Analytics for Health Data Management OECD Publishing
This book analyses current ethical issues in public health research.
Healthcare Analytics Univ of California Press
In fact, with the control and containment of most infectious conditions and diseases of the past millennium having been achieved in most developed countries, and with the resultant increase in life expectancies, much more attention seems to have shifted to degenerative health problems. Many of the degenerative health conditions have been linked to thousands of chemicals regularly encountered in human living and occupational/work environments. It is important, therefore, that human health risk assessments are undertaken on a consistent basis - in order to determine the potential impacts of the target chemicals on public health.
Clinical Informatics Study Guide Rowman & Littlefield
Health Information Exchange: Navigating and Managing a Network of Health Information Systems, Second Edition, now fully updated, is a practical guide on how to understand, manage and make use of a health information exchange infrastructure, which moves patient-centered information within the health care system. The book informs and guides the development of new infrastructures as well

as the management of existing and expanding infrastructures across the globe. Sections explore the reasons for the health information exchange (HIE) infrastructures, how to manage them, examines the key drivers of HIE, and barriers to their widespread use. In addition, the book explains the underlying technologies and methods for conducting HIE across communities as well as nations. Finally, the book explains the principles of governing an organization that chiefly moves protected health information around. The text unravels the complexities of HIE and provides guidance for those who need to access HIE data and support operations. Encompasses comprehensive knowledge on the technology and governance of health information exchanges (HIEs) Presents business school style case studies that explore why a given HIE has or hasn't been successful Discusses the kinds of data and practical examples of the infrastructure required to exchange clinical data to support modern medicine in a world of disparate EHR systems

Biostatistics for Clinical and Public Health Research Springer Science & Business Media

Secondary data play an increasingly important role in epidemiology and public health research and practice; examples of secondary data sources include

national surveys such as the BRFSS and NHIS, claims data for the Medicare and Medicaid systems, and public vital statistics records. Although a wealth of secondary data is available, it is not always easy to locate and access appropriate data to address a research or policy question. This practical guide circumvents these difficulties by providing an introduction to secondary data and issues specific to its management and analysis, followed by an enumeration of major sources of secondary data in the United States. Entries for each data source include the principal focus of the data, years for which it is available, history and methodology of the data collection process, and information about how to access the data and supporting materials, including relevant details about file structure and format.

Public Health Risk Assessment for Human Exposure to Chemicals

IOS Press

The effective and efficient management of healthcare institutions is key to the successful development of national health systems. In an increasingly digital society, the skills involved in health information management become a primary factor in ensuring this development. Employment is projected to grow in all areas of healthcare, but especially in those

related to information management, such as applied informatics, public health informatics and medical informatics. This book, Health Information Management: Empowering Public Health, aims to provide a clear and comprehensive introduction to the study and development of health information management. It is designed for use by university and vocational courses to train allied health professionals. It can also be used as an in-service training tool for new healthcare-facility personnel, for those working in government healthcare institutions, independent billing and health assurance services, or individually by health information specialists. The book describes health information management, and explains how it merges the fields of health care and information technology. Readers will learn logical thinking and communication, and will be introduced to the organizational processes in healthcare institutions, as well as finding out how to organize and analyze health care data; accurately record, store and assess health data; use an electronic patient record system; and provide statistical analysis and interpret the results. The book will be of interest to all those wishing to gain a better insight into what is involved health information management, and to

all those studying the subject.

Data Management for Public Health Professionals John Wiley & Sons

“This is an outstanding book and I would highly recommend it for any professional or faculty in a current public health role, and absolutely for a student in the fields of public health, nursing, health administration, health education, medicine, and information technology (artificial intelligence)... This book provides the resources for professionals to learn and apply theory, analytics, quality, and services to understand populations with the ultimate goal of transforming U.S. health care." ---Doody's Review Service, 5 stars

Population Health Management: Strategies, Tools, Applications, and Outcomes uniquely combines perspectives and concepts from community, public, and global health and aligns them with the essentials of health management. Written by leading experts in academia and industry, this text emphasizes the integration of management skills necessary to deliver quality care while producing successful outcomes sensitive to the needs of diverse populations. Designed to be both student-friendly and comprehensive, this text utilizes various models, frameworks, case examples, chapter podcasts, and more to illustrate foundational

knowledge and impart the skills necessary for health care managers to succeed throughout the health care sector. The book spans core topics such as community needs assessments, social determinants of health, the role of data analytics, managerial epidemiology, value-based care payment models, and new population health delivery models. COVID-19 examples throughout chapters illustrate population health management strategies solving real-world challenges. Practical and outcomes-driven, Population Health Management prepares students in health administration and management, public health, social work, allied health, and other health professions for the challenges of an evolving health care ecosystem and the changing roles in the health management workforce. Key Features: Highlights up-to-date topics focusing on social marketing, design thinking for innovation, adopting virtual care and telehealth strategies, and social marketing ideas Introduces new population health management skills and tools such as the Social Vulnerability Index, Policy Map, PRAPARE, the PHM Framework, Design Thinking and Digital Messaging Incorporates "Did You Know?" callouts, chapter-based podcasts, and discussion questions to help explain real-world situations and

examples that students and health professionals may encounter as administrators and managers Includes four full-length case studies focusing on the co-production of health, implementing a population health data analytics platform, health equity, and collaborative leadership Connects chapter objectives with the National Center for Healthcare Leadership (NCHL) and the Public Health Foundation (PHF) competencies Purchase includes digital access for use on most mobile devices or computers, as well as full suite of instructor resources with Instructor's Manual, PowerPoint slides, test bank, and sample syllabus

Ethics and Governance of Public Health Information Academic Press

Introducing Statistics & Data Analytics for Health Data Management by Nadinia Davis and Betsy Shiland, an engaging new text that emphasizes the easy-to-learn, practical use of statistics and manipulation of data in the health care setting. With its unique hands-on approach and friendly writing style, this vivid text uses real-world examples to show you how to identify the problem, find the right data, generate the statistics, and present the information to other users. Brief Case scenarios ask you to apply information to situations Health Information Management

professionals encounter every day, and review questions are tied to learning objectives and Bloom's taxonomy to reinforce core content. From planning budgets to explaining accounting methodologies, Statistics & Data Analytics addresses the key HIM Associate Degree-Entry Level competencies required by CAHIIM and covered in the RHIT exam. Meets key HIM Associate Degree-Entry Level competencies, as required by CAHIIM and covered on the RHIT registry exam, so you get the most accurate and timely content, plus in-depth knowledge of statistics as used on the job. Friendly, engaging writing style offers a student-centered approach to the often daunting subject of statistics. Four-color design with ample visuals makes this the only textbook of its kind to approach bland statistical concepts and unfamiliar health care settings with vivid illustrations and photos. Math review chapter brings you up-to-speed on the math skills you need to complete the text. Brief Case scenarios strengthen the text's hands-on, practical approach by taking the information presented and asking you to apply it to situations HIM professionals encounter every day. Takeaway boxes highlight key points and important concepts. Math Review boxes remind you of basic arithmetic, often while providing additional practice.

Stat Tip boxes explain trickier calculations, often with Excel formulas, and warn of pitfalls in tabulation. Review questions are tied to learning objectives and Bloom's taxonomy to reinforce core content and let you check your understanding of all aspects of a topic. Integrated exercises give you time to pause, reflect, and retain what you have learned. Answers to integrated exercises, Brief Case scenarios, and review questions in the back of the book offer an opportunity for self-study. Appendix of commonly used formulas provides easy reference to every formula used in the textbook. A comprehensive glossary gives you one central location to look up the meaning of new terminology. Instructor resources include TEACH lesson plans, PowerPoint slides, classroom handouts, and a 500-question Test Bank in ExamView that help prepare instructors for classroom lectures.

Statistics for Health Care Management and Administration CRC Press

ESSENTIALS OF HEALTH INFORMATION MANAGEMENT: PRINCIPLES AND PRACTICES, Fifth Edition, gives you a thorough introduction to fundamental Health Information Management concepts you'll need to understand as an allied health professional. Learning objectives are correlated and mapped to current CAHIIM curriculum standards,

and each chapter includes key terms, assessments and case studies to help you learn and apply important concepts. Updated and expanded to reflect key industry trends, legal and regulatory developments and advances in technology, the Fifth Edition features new content on information systems, data management and security, ethics and cultural diversity and cultural competence, as well as timely resources related to telehealth and telemedicine. In addition, the product suite includes a variety of print and digital options to help you learn the way that's best for you.

Big Data and Health Analytics CRC Press Management of Emerging Public Health Issues and Risks: Multidisciplinary Approaches to the Changing Environment addresses the threats facing the rapidly changing world and provides guidance on how to manage risks to population health. Unlike conventional and recognized risks (major, industrial, and natural), emerging risks are characterized by low or non-existent scientific knowledge, high levels of uncertainty, and different levels of acceptability by the relevant authorities and exposed populations. Emerging risk must be analyzed through multiple and crossed approaches identifying the phenomenon linked to the emergence of risk

but also by combining scientific, policy and social data in order to provide more enlightened decision making. Management of Emerging Public Health Issues and Risks: Multidisciplinary Approaches to the Changing Environment provides examples of transdisciplinary approaches used to characterize, analyze, and manage emerging risks. This book will be useful for public health researchers, policy makers, and students as well as those working in emergency management, risk management, security, environmental health, nanomaterials, and food science. Presents emerging risks from the technological, environmental, health, and energy sectors, as well as their social impacts Contextualizes emerging risks as new threats, existing threats in new locations, and known issues, which are newly recognized as risks due to increased scientific knowledge Includes case studies from around the world to reinforce concepts

Afterlives of Data

John Wiley & Sons

While mapped data provide a common ground for discussions between the public, the media, regulatory agencies, and public health researchers, the analysis of spatially referenced data has experienced a phenomenal growth over the last two decades, thanks in part to the development of geographical information systems (GISs). This is the first thorough overview to

integrate spatial statistics with data management and the display capabilities of GIS. It describes methods for assessing the likelihood of observed patterns and quantifying the link between exposures and outcomes in spatially correlated data. This introductory text is designed to serve as both an introduction for the novice and a reference for practitioners in the field Requires only minimal background in public health and only some knowledge of statistics through multiple regression Touches upon some advanced topics, such as random effects, hierarchical models and spatial point processes, but does not require prior exposure Includes lavish use of figures/illustrations throughout the volume as well as analyses of several data sets (in the form of "data breaks") Exercises based on data analyses reinforce concepts

Smart Use of State Public Health Data for Health Disparity Assessment

Government Printing Office

Health services are often fragmented along organizational lines with limited communication among the public health–related programs or organizations, such as mental health, social services, and public health services. This can result in disjointed decision making without necessary data and knowledge, organizational

fragmentation, and disparate knowledge development across the full array of public health needs. When new questions or challenges arise that require collaboration, individual public health practitioners (e.g., surveillance specialists and epidemiologists) often do not have the time and energy to spend on them. Smart Use of State Public Health Data for Health Disparity Assessment promotes data integration to aid crosscutting program collaboration. It explains how to maximize the use of various datasets from state health departments for assessing health disparity and for disease prevention. The authors offer practical advice on state public health data use, their strengths and weaknesses, data management insight, and lessons learned. They propose a bottom-up approach for building an integrated public health data warehouse that includes localized public health data. The book is divided into three sections: Section I has seven chapters devoted to knowledge and skill preparations for recognizing disparity issues and integrating and analyzing local public health data. Section II provides a systematic surveillance effort by linking census tract poverty to other health disparity dimensions. Section III provides in-depth studies related to Sections I and II. All data used in the book

have been geocoded to the census tract level, making it possible to go more local, even down to the neighborhood level.
Healthcare Analytics John Wiley & Sons
Health Data Processing: Systemic Approaches focuses on the design of health information systems and touches on the main themes of medical informatics and public health. The book is written for health professionals in practice or training, and is especially useful for decision-makers or future decision-makers in the field of health information systems. Users will find sections on the question of reusing data for other purposes, protection of individual liberties that this data and technologies make more acute, and the irruption of large masses of genetic data and its related problems. This book develops the methodological and conceptual aspects related to these issues. Proposes a methodology for the development of health information systems for the better use of digital technologies Illustrates a systemic, transversal, conceptual vision that supports the complex reality of the healthcare world, where the interoperability of agents (professionals and software) is central Discusses the reuse of resources of data for knowledge improvement, health security and public health

Analysis, Evaluation and Recommended

Improvement of the Oregon State Public Health Laboratory Data Management System An Introduction to Statistical Computing with SAS (First Edition)SAS Data Management for Public Health: An Introduction equips readers with the tools and knowledge they need to prepare public health data in SAS Data Management software for use in analysis. Highly accessible in nature, the book is specifically designed to help students who are new to SAS learn and master the system. The book is organized into 20 lessons. The opening lessons introduce SAS and provide tips and best practices for exploring data. Students are introduced to PROC MEANS, FREQ, UNIVARIATE, and PROC SGPLOT. They learn how to import data; merge, concatenate, and manage variables; perform data cleanup; and recode categorical and continuous variables. Specific lessons address comments, labels, and titles, formatting variables, conditional recoding, DO groups, arrays for recoding, and categorical data analysis. Closing lessons introduce stratified and subpopulation analysis, as well as logistic regression. The book includes an appendix to help students navigate and use SAS Studio. SAS Data Management for Public Health is an ideal resource for standalone courses in which SAS is taught or

to complement any biostatistics or epidemiology course where students need to use SAS to analyze their data. Brianna Magnusson holds a Ph.D. in epidemiology and a M.P.H. from Virginia Commonwealth University. She is an associate professor in the Department of Public Health at Brigham Young University. Dr. Magnusson's research focuses on sexual and reproductive health with emphasis on factors influencing sexual decision-making. Caroline Stampfel holds an M.P.H. with a concentration in environmental epidemiology from the Yale School of Public Health. She serves as the director of programs for the Association of Maternal & Child Health Programs and leads a team of maternal and child health experts using data-driven, innovative approaches to improve the health and well-being of women, children, youth, families, and communities.Health Information Management: Empowering Public Health

This completely updated study guide textbook is written to support the formal training required to become certified in clinical informatics. The content has been extensively overhauled to introduce and define key concepts using examples drawn from real-world experiences in order to impress upon the reader the

core content from the field of clinical informatics. The book groups chapters based on the major foci of the core content: health care delivery and policy; clinical decision-making; information science and systems; data management and analytics; leadership and managing teams; and professionalism. The chapters do not need to be read or taught in order, although the suggested order is consistent with how the editors have structured their curricula over the years. Clinical Informatics Study Guide: Text and Review serves as a reference for those seeking to study for a certifying examination independently or periodically reference while in practice. This includes physicians studying for board examination in clinical informatics as well as the American Medical Informatics Association (AMIA) health informatics certification. This new edition further refines its place as a roadmap for faculty who wish to go deeper in courses designed for physician fellows or graduate students in a variety of clinically oriented informatics disciplines, such as nursing, dentistry, pharmacy, radiology, health administration and public health.

Encyclopedia of Public Health IOS Press

The Encyclopedic Reference of Public Health presents the most important definitions, principles and general

perspectives of public health, written by experts of the different fields. The work includes more than 2,500 alphabetical entries. Entries comprise review-style articles, detailed essays and short definitions. Numerous figures and tables enhance understanding of this little-understood topic. Solidly structured and inclusive, this two-volume reference is an invaluable tool for clinical scientists and practitioners in academia, health care and industry, as well as students, teachers and interested laypersons.

An Introduction to Statistical Computing with SAS (First Edition)

National Academies Press

Features of statistical and operational research methods and tools being used to improve the healthcare industry With a focus on cutting-edge approaches to the quickly growing field of healthcare, Healthcare Analytics: From Data to Knowledge to Healthcare Improvement provides an integrated and comprehensive treatment on recent research advancements in data-driven healthcare analytics in an effort to provide more personalized and smarter healthcare services. Emphasizing data and healthcare analytics from an operational management and statistical perspective, the book details how analytical methods and tools can be utilized to enhance healthcare

quality and operational efficiency. Organized into two main sections, Part I features biomedical and health informatics and specifically addresses the analytics of genomic and proteomic data; physiological signals from patient-monitoring systems; data uncertainty in clinical laboratory tests; predictive modeling; disease modeling for sepsis; and the design of cyber infrastructures for early prediction of epidemic events. Part II focuses on healthcare delivery systems, including system advances for transforming clinic workflow and patient care; macro analysis of patient flow distribution; intensive care units; primary care; demand and resource allocation; mathematical models for predicting patient readmission and postoperative outcome; physician–patient interactions; insurance claims; and the role of social media in healthcare. Healthcare Analytics: From Data to Knowledge to Healthcare Improvement also features: • Contributions from well-known international experts who shed light on new approaches in this growing area • Discussions on contemporary methods and techniques to address the handling of rich and large-scale healthcare data as well as the overall optimization of healthcare system

operations • Numerous real-world examples and case studies that emphasize the vast potential of statistical and operational research tools and techniques to address the big data environment within the healthcare industry • Plentiful applications that showcase analytical methods and tools tailored for successful healthcare systems modeling and improvement The book is an ideal reference for academics and practitioners in operations research, management science, applied mathematics, statistics, business, industrial and systems engineering, healthcare systems, and economics.

Healthcare Analytics: From Data to Knowledge to Healthcare Improvement is also appropriate for graduate-level courses typically offered within operations research, industrial engineering, business, and public health departments.

Registries for Evaluating Patient Outcomes Elsevier Health Sciences

Introduction: data lives on -- Tracing life through data -- Building trust where data divides -- Collecting life -- Mobilizing alternative data -- On scoring life -- Data visibilities -- Epilogue: afterlife.

Population Health Monitoring Cambridge University Press

Regional health care databases are being established around the country with the goal of providing timely and

useful information to policymakers, physicians, and patients. But their emergence is raising important and sometimes controversial questions about the collection, quality, and appropriate use of health care data. Based on experience with databases now in operation and in development, Health Data in the Information Age provides a clear set of guidelines and principles for exploiting the potential benefits of aggregated health dataâ€"without jeopardizing confidentiality. A panel of experts identifies characteristics of emerging health database organizations (HDOs). The committee explores how HDOs can maintain the quality of their data, what policies and practices they should adopt, how they can prepare for linkages with computer-based patient records, and how diverse groups from researchers to health care administrators might use aggregated data. Health Data in the Information Age offers frank analysis and guidelines that will be invaluable to anyone interested in the operation of health care databases.

Health Information Governance in a Digital Environment Routledge

Despite rapid advances in modern medicine and state-of-the-art health care services in the private sector, primary health care in India remains inaccessible to a majority of the

population. Besides, even policymakers often do not have access to real-time data to fine-tune their policies or design appropriate research and intervention programmes. Drawing on field experiences, this volume brings together scholars and practitioners to examine public health from different perspectives. It discusses practical and applied issues related to the health sector, especially the role of Information and Communications Technology (ICT); participation of civil society; service delivery; quality evaluation; consumer empowerment; data management; and research and intervention. This book will be useful to scholars, students and practitioners of public health in developing countries such as India. It will also interest policymakers, health care professionals, and departments of public health management and those concerned with community medicine.

Health Information Management Springer

SAS Data Management for Public Health: An Introduction equips readers with the tools and knowledge they need to prepare public health data in SAS Data Management software for use in analysis. Highly accessible in nature, the book is specifically designed to help students who are new to SAS learn and master the system. The book is organized into 20 lessons. The

opening lessons introduce SAS and provide tips and best practices for exploring data. Students are introduced to PROC MEANS, FREQ, UNIVARIATE, and PROC SGPLOT. They learn how to import data; merge, concatenate, and manage variables; perform data cleanup; and recode categorical and continuous variables. Specific lessons address comments, labels, and titles, formatting variables, conditional recoding, DO groups, arrays for recoding, and categorical data analysis. Closing lessons introduce stratified and subpopulation analysis, as well as logistic regression. The book includes an appendix to help students navigate and use SAS Studio. SAS Data Management for Public Health is an ideal resource for standalone courses in which SAS is taught or to complement any biostatistics or epidemiology course where students need to use SAS to analyze their data. Brianna Magnusson holds a Ph.D. in epidemiology and a M.P.H. from Virginia Commonwealth University. She is an associate professor in the Department of Public Health at Brigham Young University. Dr. Magnusson's research focuses on sexual and reproductive health with emphasis on factors influencing sexual decision-making. Caroline Stampfel holds an M.P.H. with a

concentration in environmental epidemiology from the Yale School of Public Health. She serves as the director of programs for the Association of Maternal & Child Health Programs and leads a team of maternal and child health experts using data-driven, innovative approaches to improve the health and well-being of women, children, youth, families, and communities.

Health Information Management: Empowering Public Health Routledge

As health care organization leaders use data more consistently in decision making, it is important they understand the quantitative methods that help convert data to information. Quantitative Methods in Health Care Management provides important insights into the various quantitative methods, detailing many different problems and their solutions. It contains numerous helpful exhibits and graphics that explain and demonstrate the methods presented. It also provides a readable narrative for the manager who wants a high-level refresher on quantitative methods."

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