

Allscripts Pro Suite Ehr Training Manual

"This book will be a terrific introduction to the field of clinical IT and clinical informatics" -- Kevin Johnson
"Dr. Braunstein has done a wonderful job of exploring a number of key trends in technology in the context of the transformations that are occurring in our health care system" -- Bob Greenes
"This insightful book is a perfect primer for technologists entering the health tech field." -- Deb Estrin
"This book should be read by everyone." -- David Kibbe
This book provides care providers and other non-technical readers with a broad, practical overview of the changing US healthcare system and the contemporary health informatics systems and tools that are increasingly critical to its new financial and clinical care paradigms. US healthcare delivery is dramatically transforming and informatics is at the center of the changes. Increasingly care providers must be skilled users of informatics tools to meet federal mandates and succeed under value-based contracts that demand higher quality and increased patient satisfaction but at lower cost. Yet, most have little formal training in these systems and technologies. Providers face system selection issues with little unbiased and insightful information to guide them. Patient engagement to promote wellness, prevention and improved outcomes is a requirement of Meaningful Use Stage 2 and is increasingly supported by mobile devices, apps, sensors and other technologies. Care providers need to provide guidance and advice to their patients and know how to incorporate as they generate into their care. The one-patient-at-a-time care model is being rapidly supplemented by new learn-, population- and public health-based models of care. As digital data becomes ubiquitous, medicine is changing as research based on that data reveals new methods for earlier diagnosis, improved treatment and disease management. This book is clearly written, up-to-date and uses real world examples extensively to explain the tools and techniques and illustrate their practical role and potential impact on providers, patients, researchers, and society as a whole.

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Focusing on the information every nurse should know and capturing cutting-edge advances in a rapidly changing field, this practical text helps students build the communication and information literacy skills they need to integrate informatics into practice. This edition retains the key coverage of the previous edition, including office cloud computing software, interoperability, consumer informatics, telehealth, clinical information systems, social media use guidelines, and software and hardware developments, while offering new quality and references throughout.
Highlights of the 6th Edition
Updated coverage Built-in learning aids Integrated QSEN scenarios Available with CoursePoint for Informatics and Nursing, 6th Edition
Combining the world-class content of this text with Lippincott 's innovative learning tools in one easy-to-use digital environment, Lippincott CoursePoint transforms the teaching and learning experience, making the full spectrum of nursing education more approachable than ever for you and your students. This powerful solution is designed for the way students learn, providing didactic content in the context of real-life scenarios—at the exact moments when students are connecting theory to application. Features
Create an active learning environment that engages students of various learning styles. Deliver a diverse array of content types—interactive learning modules, quizzes, and more—designed for today's interactive learners. Address core concepts while inspiring critical thinking. Reinforce understanding with instant SmartSense remediation links that connect students to the exact content they need at the precise moment they need it. Analyze results and adapt teaching methods to better meet individual students ' strengths and weaknesses. Empower students to learn at their own pace in an online environment available anytime, anywhere.

The practice of modern medicine and biomedical research requires sophisticated information technologies with which to manage patient information, plan diagnostic procedures, interpret laboratory results, and carry out investigations. Biomedical Informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline at the intersection of computer science, decision science, information science, cognitive science, and biomedicine. Now revised and in its third edition, this text meets the growing demand by practitioners, researchers, and students for a comprehensive introduction to key topics in the field. This book is clearly written, up-to-date and uses real world examples extensively to explain the tools and techniques and illustrate their practical role and potential impact on providers, patients, researchers, and society as a whole.

This important volume provides a one-stop resource on the SAFER Guides along with the guides themselves and information on their use, development, and evaluation. The Safety Assurance Factors for EHR Resilience (SAFER) guides, developed by the editors of this book, identify recommended practices to optimize the safety and safe use of electronic health records (EHRs). These guides are designed to help organizations self-assess the safety and effectiveness of their EHR implementations, identify specific areas of vulnerability, and change their cultures and practices to mitigate risks. This book provides EHR designers, developers, implementers, users, and policymakers with the requisite historical context, clinical informatics knowledge, and real-world, practical guidance to enable them to utilize the SAFER Guides to proactively assess the safety and effectiveness of their electronic health records EHR implementations. The first five chapters are designed to provide readers with the conceptual knowledge required to understand why and how the guides were developed. The next nine chapters focus on the underlying informatics concepts, key research activities, and methods used to develop each of the guides. Each of these chapters concludes with a copy of the guide itself. The final chapter provides a vision for the future and the work required to ensure that future generations of EHRs are designed, developed, implemented, and used to improve the overall safety of the EHR-enabled healthcare system. Taken together, the information provided in this book should help any organization, whether large or small, implement its EHR program and improve the safety and effectiveness of its existing EHR-enabled healthcare systems. This volume will be extremely valuable to small, ambulatory physician practices and larger outpatient settings as well as for hospitals and professors and instructors charged with teaching safe and effective implementation and use of EHRs. It will also be highly useful for health information technology professionals responsible for maintaining a safe and effective EHR and for clinical and administrative staff working in EHR-enabled healthcare systems.

Voices of Innovation

Perfect 10 Diet

Human-Computer Interaction: Interaction Modalities and Techniques

Lead and Disrupt

Improving Outcomes with Clinical Decision Support

Computer Applications in Health Care and Biomedicine

A Field Guide to Awesomeness

Electronic Health Records (EHR) offer great potential to increase healthcare efficiency, improve patient safety, and reduce health costs. The adoption of EHRs among office-based physicians in the US has increased from 20% ten years ago to over 80% in 2014. Among acute care hospitals in US, the adoption rate today is approaching 100%. Finding relevant patient information in electronic health records' (EHRs) large datasets is difficult, especially when organized only by data type and time. Automated clinical summarization creates condition-specific displays, promising improved clinician efficiency. However, automated summarization requires new kinds of clinical knowledge (e.g., problem-medication relationships).

TECHNOLOGY IN MENTAL HEALTHApplications in Practice, Supervision and Training (2nd Ed.)Charles C Thomas Publisher

Nursing informatics has a long history of focusing on information management and nurses have a long history of describing their computer use. However, based on the technical advances and through the ongoing and consistent changes in healthcare today, we are now challenged to look to the future and help determine what nurses and patients/consumers will need going forward. This book presents the proceedings of the Post Conference to the 13th International Conference on Nursing Informatics, held in Geneva, Switzerland, in June 2016. The theme of the Post Conference is Forecasting Informatics Competencies for Nurses in the Future of Connected Health. This book includes 25 chapters written as part of the Post Conference; a result of the collaboration among nursing informatics experts from research, education and practice settings, from 18 countries, and from varying levels of expertise – those beginning to forge new frontiers in connected health and those who helped form the discipline. The book content will help forecast and define the informatics competencies for nurses and informatics training in nursing programs around the world. The content will aid in shaping the nursing practice that will exist in our future of connected health, when practice and technology will be inextricably intertwined.

This is a "Field Guide" for aspiring and practicing Flight Nurses. Topic by topic, we get an inside look into the workings of elite Transport Medicine. This is the first complete subject breakdown "Field Guide" ever published about Flight Nursing.

Healthcare Cybersecurity

Electronic Health Records and Medical Big Data

Biomedical Informatics

The Big Unlock

Introduction to Natural Language Processing

15th International Conference, HCI International 2013, Las Vegas, NV, USA, July 21-26, 2013. Proceedings, Part IV

Data, Engineering and Applications

This book presents a comprehensive state-of-the-art approach to digital health technologies and practices within the broad confines of healthcare practices. It provides a canvas to discuss emerging digital health solutions, propelled by the ubiquitous availability of miniaturized, personalized devices and affordable, easy to use wearable sensors, and innovative technologies like 3D printing, virtual and augmented reality and driverless robots and vehicles including drones. One of the most significant promises the digital health solutions hold is to keep us healthier for longer, even with limited resources, while truly scaling the delivery of healthcare. Digital Health: Scaling Healthcare to the World addresses the emerging trends and enabling technologies contributing to technological advances in healthcare practice in the 21st Century. These areas include generic topics such as mobile health and telemedicine, as well as specific concepts such as social media for health, wearables and quantified-self trends. Also covered are the psychological models leveraged in design of solutions to persuade us to follow some recommended actions, then the design and educational facets of the proposed innovations, as well as ethics, privacy, security, and liability aspects influencing its acceptance. Furthermore, sections on economic aspects of the proposed innovations are included, analyzing the potential business models and entrepreneurship opportunities in the domain.

Realizing the promise of technology depends on sharing information across time and space. The barrier to progress is not technical; it is the failure of organizational demand to drive purchasing requirements. Better procurement practices, supported by interoperable platforms, will allow for better, safer patient care and financial savings.

Over the last few years, a number of well-known firms have failed; think of Blockbuster, Kodak, or RadioShack. When we read about their demise, it often seems inevitable—a natural part of "creative destruction." But closer examination reveals a disturbing truth: Companies large and small are shuttering more quickly than ever. What does it take to buck this trend? The simple answer is: ambidexterity. Firms must remain competitive in their core markets, while also winning in new domains. Innovation guru Clayton M. Christensen has been pessimistic about whether established companies can prevail in the face of disruption, but Charles A. O'Reilly III and Michael L. Tushman know they can! The authors explain how shrewd organizations have used an ambidextrous approach to solve their own innovator's dilemma. They contrast these luminaries with companies which—often trapped by their own successes—have been unable to adapt and grow. Drawing on a vast research program and over a decade of helping companies to innovate, the authors present a set of practices to guide firms as they adopt ambidexterity. Top-down and bottom-up leaders are key to this process—a fact too often overlooked in the heated debate about innovation. But not in this case.

Readers will come away with a new understanding of how to improve their existing businesses through efficiency, control, and incremental change, while also seizing new markets where flexibility, autonomy, and experimentation rule the day.

Most industries have plunged into data automation, but health care organizations have lagged in moving patients' medical records from paper to computers. In its first edition, this book presented a blueprint for introducing the computer-based patient record (CPR). The revised edition adds new information to the original book. One section describes recent developments, including the creation of a computer-based patient record institute. An international chapter highlights what is new in this still-emerging technology. An expert committee explores the potential of machine-readable CPRs to improve diagnostic and care decisions, provide a database for policymaking, and much more, addressing these key questions: Who uses patient records? What technology is available and what further research is necessary to meet users' needs? What should government, medical organizations, and others do to make the transition to CPRs? The volume also explores such issues as privacy and confidentiality, costs, the need for training, legal barriers to CPRs, and other key topics.

Opportunities for Improving Outcomes, Value, and Health

Proceedings of the Nursing Informatics Post Conference 2016

Registries for Evaluating Patient Outcomes

Better EHR

Thriving in the New Data-Driven Healthcare Market

An Essential Technology for Health Care, Revised Edition

Forecasting Informatics Competencies for Nurses in the Future of Connected Health

Health Informatics (HI) focuses on the application of Information Technology (IT) to the field of medicine to improve individual and population healthcare delivery, education and research. This extensively updated fifth edition reflects the current knowledge in Health Informatics and provides learning objectives, key points, case studies and references.

Poisoning is a far more serious health problem in the U.S. than has generally been recognized. It is estimated that more than 4 million poisoning episodes occur annually, with approximately 300,000 cases leading to hospitalization. The field of poison prevention provides some of the most celebrated examples of successful public health interventions, yet surprisingly the current poison control áccesystemá€ is little more than a loose network of poison control centers, poorly integrated into the larger spheres of public health. To increase their effectiveness, effo agenda for public health promotion and injury prevention. Forging a Poison Prevention and Control System recommends a future poison control system with a strong public health infrastructure, a national system of regional poison control centers, federal funding to support core poison control activities, and a national poison information system to track major poisoning epidemics and possible acts of bioterrorism. This framework provides a complete áccesystemá€ that could offer the best poison prevention and patient care services to meet the needs of the U.S. This is a meticulously drafted, chronological record of significant events in the history of medical informatics and their impact on direct patient care and clinical research, offering a representative sampling of published contributions to the field. The History of Medical Informatics in the United States has been restructured within this new edition, reflecting the transformation medical informatics has undergone in the years since 1990. The systems that were once exclusively institutionally driven – hospital, multihospital, and outpatient information systems – are now being redesigned, restructured, and reimagined. This book is a valuable resource for researchers, editors, and practitioners in the field. The subject imaginable, and also provides readers with a roadmap for the subject well into later in the century.

Commissioned by the Department of Health and Human Services, Key Capabilities of an Electronic Health Record System provides guidance on the most significant care delivery-related capabilities of electronic health record (EHR) systems. There is a great deal of interest in both the public and private sectors in encouraging all health care providers to migrate from paper-based health records to a system that stores health information electronically and employs computer-aided decision support systems. In part, this interest is due to a growing recognition that integral to addressing national concerns such as the need to improve the safety and the quality of health care, rising health care costs, and matters of homeland security related to the health sector. Key Capabilities of an Electronic Health Record System provides a set of basic functionalities that an EHR system must employ to promote patient safety, including detailed patient data (e.g., diagnoses, allergies, laboratory results), as well as decision-support capabilities (e.g., the ability to alert providers to potential drug-drug interactions). The book examines current and emerging best practices for the use of health care data standards to better advance the safety, quality, and efficiency of health care in the United States.

The Rise of Corporate Hegemony and the Loss of Professional Autonomy

The User's Guide

The Health of a Nation: America's Biggest Gamble

Informatics and Nursing

Healthcare Digital Transformation

Applications in Practice, Supervision and Training (2nd Ed.)

In this book, the authors examine the overall context and dynamics of modern medicine, focusing on the changing conditions of medical practice through the lens of corporatization of medicine, physician unionization, physician strikes, and current health policy directions. Conditions affecting the American medical profession have been dramatically altered by the continuing crises of cost increases, quality concerns, and lack of access facing our population, along with the ongoing corporatization toward bottom-line dictates. Pressures on practitioners have been intensifying with much greater scrutiny over their clinical decision-making. Topics explored among the chapters include: History of the Corporatization of American Medicine; The Market Paradigm Reigns Pharmaceuticals, Hospitals, Nursing Homes, Drug Store Chains, and Pharmacy Benefit Manager/Insurer Integration Medical Practice: From Cottage Industry to Corporate Practice Medical Malpractice Crisis: Oversight of the Practice of Medicine Big Data: Information Technology as Control over the Profession of Medicine Physician Employment Status: Collective Bargaining and Strikes The Corporatization of American Health Care offers different perspectives with the hopes that physicians will unite in a new awareness and common cause to curtail excessive profit-making, renew professional altruism, restore the charitable impulse to health provider institutions, and unite with other professionals to truly raise levels of population health and the quality of health care. It is also a necessary resource for health policy analysts, healthcare administrators, health law attorneys, and other associated health professions.

This book is a reference guide for healthcare executives and technology providers involved in the ongoing digital transformation of the healthcare sector. The book focuses specifically on the challenges and opportunities for health systems in their journey toward a digital future. It draws from proprietary research and public information, along with interviews with over one hundred and fifty executives in leading health systems such as Cleveland Clinic, Partners, Mayo, Kaiser, and Intermountain as well as numerous technology and retail providers. The authors explore the important role of technology and that of EHR systems, digital health innovators, and big tech firms in the ongoing digital transformation of healthcare. Importantly, the book draws on the accelerated learnings of the healthcare sector during the COVID-19 pandemic in their digital transformation efforts to adopt telehealth and digital care models that have been proven to be effective. Provides an understanding of the current state of digital transformation and the factors influencing the ongoing transformation of the healthcare sector. Includes interviews with executives from leading health systems. Describes the important role of emerging technologies; EHR systems, digital health innovators, and more. Includes case studies from innovative health organizations. Provides a set of templates and frameworks for developing and implementing a digital roadmap. Based on best practices from real-life examples, the book is a guidebook that provides a set of templates and frameworks for digital transformation practitioners in healthcare.

Winner of the 2012 HIMSS Book of the Year Award! Co-published by HIMSS, the Scottsdale Institute, AMIA, AMDIS and SHM, this second edition of the authoritative guide to CDS implementation has been substantially enhanced with expanded and updated guidance on using CDS interventions to improve care delivery and outcomes. This edition has been reorganized into parts that help readers set up (or refine) a successful CDS program in a hospital, health system or physician practice; and configure and launch specific CDS interventions. Two detailed case studies illustrate how a "real-life" CDS program and specific CDS interventions might evolve in a hypothetical community hospital and small physician practice. This updated edition includes enhanced worksheets--with sample data--that help readers to document and use information needed for their CDS program and interventions. Sections in each chapter present considerations for health IT software suppliers to effectively support their CDS implementer clients.

This book provides interdisciplinary analysis of electronic health record systems and medical big data, offering a wealth of technical, legal, and policy insights.

Intelligence Identities Protection Act of 1982

Fulfilling the Promise of Information Technology in Healthcare

Practical Guide for the Healthcare Professional 2008

The Physician and Pharmacist

How American Health Care Killed My Father--and How We Can Fix It

The Corporatization of American Health Care

Medical Informatics

Examining-room computers require doctors to record detailed data about their patients, yet reduce the time clinicians can spend listening attentively to the very people they are trying to help. This book presents original essays by distinguished experts in their fields, addressing this critical problem and making an urgent case for reform, because while electronic technology has revolutionized the practice of medicine, it also poses a unique challenge to health care. Smartphones in the hands of doctors and nurses have become dangerously seductive devices that can endanger their patients. Distracted Doctoring is written for anesthesiologists and surgeons, as well as general practitioners, nurses, and health care administrators and students. Chapters include Electronic Challenges to Patient Safety and Care; Distraction, Disengagement, and the Purpose of Medicine; and Managing Distractions through Advocacy, Education, and Change.

Medical Informatics is a new field that combines information technology and clinical medicine to improve medical care, medical education and medical research. With over 1,000 references, this extensively updated second edition will serve as a practical guide for understanding the field of Medical Informatics. Topics covered include: Overview of Medical Informatics, Electronic Health Records, Interoperability, Patient Informatics, Online Medical Resources, Search Engines, Mobile Technology, Evidence Based Medicine, Clinical Practice Guidelines, Pay for Performance, Disease Management and Disease Registries, Patient Safety, Electronic Prescribing, Telemedicine, Picture Archiving and Communication Systems, Bioinformatics, Public Health Informatics, E-research, and Emerging Trends

The five-volume set LNCS 8004–8008 constitutes the refereed proceedings of the 15th International Conference on Human-Computer Interaction, HCI 2013, held in Las Vegas, NV, USA in July 2013. The total of 1666 papers and 303 posters presented at the HCI 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers in the thematic area of human-computer interaction, addressing the following major topics: speech, natural language and auditory interfaces; gesture and eye-gaze based interaction; touch-based interaction; haptic interaction; graphical user interfaces and visualisation.

Health Professionals' Education in the Age of Clinical Information Systems, Mobile Computing and Social Networks addresses the challenges posed by information and communication technology to health professionals' education, and the lessons learned from field experiences and research. This book is divided in three parts: "the changing landscape of information and communication technology in health care", in which it discusses how information and communication technology is transforming health care and the implications of these changes for health professions education; "experiences from the field", with real-life examples of health professionals' education in and for the digital era; and "evaluation of students and programs", addressing the use of technology to assess learners as well as the complexity of evaluating programs to enhance competence in an information technology-rich health care world Written by leading researchers from different parts of the world, the book is a valuable source for educators and professionals who are active or wish to be part of the health informatics field. Brings an in-depth understanding and background on the challenges for education of the health professions brought by information and communication technology Provides real-life examples on how technology is used in healthcare and how it can be used in education Presents valuable information in a visually appealing format with tables and figures

Practitioner's Guide to Health Informatics

Introduction to Health Care Management

TECHNOLOGY IN MENTAL HEALTH

Catastrophic Care

Procuring Interoperability

Digital Health

How Consumerism, Technology and Pandemic are Accelerating the Future

This book presents a compilation of current trends, technologies, and challenges in connection with Big Data. Many fields of science and engineering are data-driven, or generate huge amounts of data that are ripe for the picking. There are now more sources of data than ever before, and more means of capturing data. At the same time, the sheer volume and complexity of the data have sparked new developments, where many Big Data problems require new solutions. Given its scope, the book offers a valuable reference guide for all graduate students, researchers, and scientists interested in exploring the potential of Big Data applications.

*Lose up to 14 lbs in 21 days! The Breakthrough Diet That Gets Real-Life Results--Fast Frustrated by trendy low-fat, low-carb diets that leave you feeling hungry without losing or keeping off any weight? It's not your fault! The latest medical research shows that balanced hormones are the key to weight loss. In fact, those hard-to-maintain diet fads wreak havoc on your hormones, which is why the weight comes back the moment you stop. Dr. Michael Aziz is board-certified in internal medicine and knows that the ultimate key to good health is a diet that can be maintained in the real world. In The Perfect 10 Diet, he shares his revolutionary discovery: how to create the perfect balance between the 10 key hormones that control health and weight, so that you can finally:
• Melt away the pounds without going hungry
• Revitalize your health
• Reverse the aging process and look younger at any age
Featuring over 70 delicious, heart-healthy and easy-to-follow recipes for the foods you crave (like Garlic-Cheese Stuffed Mushrooms and Pistachio Dark Chocolate) but never thought you could have, this book will teach you how to eat what you want and still lose the weight! Join the Perfect 10 diet community online at www.perfect10diet.com or on Facebook.com/perfect10diet or on Twitter #Perfect10diet or follow @perfect10diet! Below are a few of the real people whose lives have been changed through The Perfect 10 Diet. "I went from a size 24 to a 6, and I love it!" -Nancy A. "I have lost seventy pounds on The Perfect 10 Diet in sixteen months and my fasting insulin level has dropped from 40 to 4. The Perfect 10 Diet allows me to eat more fat from butter, coconut, and avocados, which I avoided for years believing they were bad for my cholesterol. Who could ask for anything more? Nothing tastes as good as thin feels." -Julie "Eat anywhere, eat healthy meals, and enjoy the food I love? How easy is that?" -Carol Z. "At age 50, I feel like I'm 20 again." -Ted S.*

"Casino Healthcare is not a theoretical policy book for the elite, but a book that penetrates the blanket of fog surrounding a major - and growing - household expense. With the research and style of an investigative journalist, the book is easy to understand and accessible by every American" -- Back cover.

Along with a shift towards value-based care, a digital transformation is under way in health care. However, health care enterprises are having a hard time keeping up with advances in information technology. Organizations that could once spend months or years developing a strategy to deliver solutions now must implement changes on a near real-time basis. Complicating matters is the emergence of new data sources, new technology architectures and models, and new methods to analyze an avalanche of data. This book provides a framework for understanding the competitive landscape for digital health and advanced analytics solutions that are harnessing data to unlock insights. It reveals a set of key principles, or universal themes, for success in the digital health marketplace. Whether youre a health care information technology specialist, a digital health startup or technology firm with a strategic focus on health care, a venture capitalist, or just interested in the industry structure and the emerging technology landscape in health care, youll learn how to grow revenue and profits while creating a sustainable competitive advantage. Take a key step in navigating the exciting transformation of health care, and harness the power of data and analytics with The Big Unlock.

Returning to Patient-Centered Care in the Digital Age

The Flight Nurse Bible

Distracted Doctoring

Safety Assurance Factors for EHR Resilience

Building a Better Delivery System

A New Engineering/Health Care Partnership

An Implementer's Guide

How can a smartwatch help patients with diabetes manage their disease? Why can't patients find out prices for surgeries and other procedures before they happen? How can researchers speed up the decade-long process of drug development? How will "Precision Medicine" impact patient care outside of cancer? What can doctors, hospitals, and health systems do to ensure they are maximizing high-value care? How can healthcare entrepreneurs find success in this data-driven market? A revolution is transforming the \$10 trillion healthcare landscape, promising greater transparency, improved efficiency, and new ways of delivering care. This new landscape presents tremendous opportunity for those who are ready to embrace the data-driven reality. Having the right data and knowing how to use it will be the key to success in the healthcare market in the future. We are already starting to see the impacts in drug development, precision medicine, and how patients with rare diseases are diagnosed and treated. Startups are launched every week to fill an unmet need and address the current problems in the healthcare system. Digital devices and artificial intelligence are helping doctors do their jobs faster and with more accuracy. MoneyBall medicine, and online gene predictors for the healthcare industry in the years to come.

This concise, reader-friendly, introductory healthcare management text covers a wide variety of healthcare settings, from hospitals to nursing homes and clinics. Filled with examples to engage the reader's imagination, the important issues in healthcare management, such as ethics, cost management, strategic planning and marketing, information technology, and human resources, are all thoroughly covered. This book pinpoints current and impending threats to the healthcare industry's data security.

In the U.S., 5 percent of patients account for nearly half of all health care spending. In this publication, experts provide insight into care models for high-need patients that have proven results, describe a taxonomy for segmenting the high-need patient population, and identify opportunities for improving care delivery across multiple sectors. Health Professionals' Education in the Age of Clinical Information Systems, Mobile Computing and Social Networks

Harnessing Data and Growing Digital Health Businesses in a Value-Based Care Era

Achieving High-Quality, Connected, and Person-Centered Care

Telemedicine in the ICU

The Computer-Based Patient Record

10 Key Hormones That Hold the Secret to Losing Weight and Feeling Great-Fast!

Letter Report

We can all point to random examples of innovation inside of healthcare information technology, but few repeatable processes exist that make innovation more routine than happenstance. How do you create and sustain a culture of innovation? What are the best practices you can refine and embed as part of your organization's DNA? What are the potential outcomes for robust healthcare transformation when we get this innovaton mystery solved? Loaded with numerous case studies and stories of successful innovation projects, this book helps the reader understand how to leverage innovation to help fulfill the promise of healthcare information technology in enabling superior business and clinical outcomes.

This User's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User's Guide is developed by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's Effective Health Care (EHCIDE) (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.

This text provides a concise, yet comprehensive overview of telemedicine in the ICU. The first part of the book reviews common issues faced by practitioners and hospital administrators in implementing and managing tele-ICU programs, including the merits of different staffing models, the challenges of building homegrown programs versus contracting for services, and the impact of state laws and payer policies on reimbursement for tele-ICU services. The second part of the book presents the current state of evidence for and against ICU telemedicine, based on clinical trials, before-and-after implementation studies, and observational data. The third part dives deeper into specific use cases for telemedicine in the ICU, including telestroke, pediatric and cardiac intensive care, and early treatment of declining patients with sepsis. Written by experts in the field, Telemedicine in the ICU is a practical guide for intensive care physicians and hospital administrators that provides all the information necessary in building and maintaining a successful tele-ICU program.

A visionary investigation that will change the way we think about health care: how and why it is failing, why expanding coverage will actually make things worse, and how our health care can be transformed into a transparent, affordable, successful system. In 2007, David Goldhill's father died from infections acquired in a hospital, one of more than two hundred thousand avoidable deaths per year caused by medical error. The bill was enormous and Medicare paid it. These circumstances left Goldhill angry and determined to understand how world-class technology and personnel could coexist with such carelessness and how a business that failed so miserably could be paid in full. Catastrophic Care is the eye-opening result. Blending personal anecdotes and extensive research, Goldhill presents us with cogent, biting analysis that challenges the basic preconceptions that have shaped our thinking for decades. Contrasting the Island of health care with the Mainland of our economy, he demonstrates that high costs, excess medicine, terrible service, and medical error are the inevitable consequences of our insurance-based system. He explains why policy efforts to fix these problems have invariably produced perverse results, and how the new Affordable Care Act is more likely to deepen than to solve these issues. Goldhill steps outside the incremental and wonkish debates to question the conventional wisdom blinding us to more fundamental issues. He proposes a comprehensive new way, where the customer (the patient) is first: a system focused on health and maintaining it, a system strong and vibrant enough for our future. If you think health care is interesting only to institutes and politicians, think again: Catastrophic Care is surprising, engaging, and brimming with insights born of questions nobody has thought to ask. Above all it is a book of new ideas that can transform the way we understand a subject we often take for granted.

Usability, Workflow and Cognitive Support in Electronic Health Records

Volume 2

How to Solve the Innovator's Dilemma

Health Informatics: Practical Guide for Healthcare and Information Technology Professionals (Sixth Edition)

Key Capabilities of an Electronic Health Record System

Effective Care for High-need Patients

Scaling Healthcare to the World

In the half-decade since publication of the first edition, there have been significant changes in society brought about by the exploding rise of technology in everyday lives that also have an impact on our mental health. The most important of these has been the shift in the way human interaction itself is conducted, especially with electronic text-based exchanges. This expanded second edition is an extensive body of work. It contains 39 chapters on different aspects of technological innovation in mental health care from 54 expert contributors from all over the globe, appropriate for a subject that holds such promise for a worldwide clientele and that applies to professionals in every country. The book is now presented in two clear sections, the first addressing the technologies as they apply to being used within counseling and psychotherapy itself, and the second section applying to training and supervision. Each chapter offers an introduction to the technology and discussion of its application to the therapeutic intervention being discussed, in each case brought to life through vivid case material that shows its use in practice.

Chapters also contain an examination of the ethical implications and cautions of the possibilities these technologies offer, now and in the future. While the question once was, should technology be used in the delivery of mental health services, the question now is how to best use technology, with whom, and when. Whether one has been a therapist for a long time, is a student, or is simply new to the field, this text will serve as an important and integral tool for better understanding the psychological struggles of one's clients and the impact that technology will have on one's practice. Psychotherapists, psychiatrists, counselors, social workers, nurses, and, in fact, every professional in the field of mental health care can make use of the exciting opportunities technology presents.

A survey of computational methods for understanding, generating, and manipulating human language, which offers a synthesis of classical representations and algorithms with contemporary machine learning techniques. This textbook provides a technical perspective on natural language processing—methods for building computer software that understands, generates, and manipulates human language. It emphasizes contemporary data-driven approaches, focusing on techniques from supervised and unsupervised machine learning. The first section establishes a foundation in machine learning by building a set of tools that will be used throughout the book and applying them to word-based textual analysis. The second section introduces structured representations of language, including sequences, trees, and graphs. The third section explores different approaches to the representation and analysis of linguistic meaning, ranging from formal logic to neural word embeddings. The final section offers chapter-length treatments of three transformative applications of natural language processing: information extraction, machine translation, and text generation. End-of-chapter exercises include both paper-and-pencil analysis and software implementation. The text synthesizes and distills a broad and diverse research literature, linking contemporary machine learning techniques with the field's linguistic and computational foundations. It is suitable for use in advanced undergraduate and graduate-level courses and as a reference for software engineers and data scientists. Readers should have a background in computer programming and college-level mathematics. After mastering the material presented, students will have the technical skill to build and analyze novel natural language processing systems and to understand the latest research in the field.

In a joint effort between the National Academy of Engineering and the Institute of Medicine, this book attempts to bridge the knowledge/awareness divide separating health care professionals from their potential partners in systems engineering and related disciplines. The goal of this partnership is to transform the U.S. health care sector from an underperforming conglomerate of independent entities (individual practitioners, small group practices, clinics, hospitals, pharmacies, community health centers et. al.) into a high performance "system" in which every participating unit recognizes its dependence and influence on every other unit. By providing both a framework and action plan for a systems approach to health care delivery based on a partnership between engineers and health care professionals, Building a Better Delivery System describes opportunities and challenges to harness the power of systems-engineering tools, information technologies and complementary knowledge in social sciences, cognitive sciences and business/management to advance the U.S. health care system.

SAFER Electronic Health Records

The History of Medical Informatics in the United States

Casino Healthcare

Forging a Poison Prevention and Control System

MoneyBall Medicine