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Value-based health care is no longer merely an aspirational goal or an academic concepto be defined and debated. It is happening now, and evidence shows that it is working:driving improved outcomes for patients and reducing costs. The stories, articles, andcase studies in the pages that follow attest this new reality, providing rich examplesof individuals and institutions around the world that are leading the way. The cases inthese pages show that outcomes measurement is needed (the “why”), feasible (the“how”), and that, once available, outcomes data have huge potential to improve care andcurb costs (the “what”).

This User’s Guide is intended to support the design, implementation, analysis, refinement, 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 the following purposes: to describe the natural history of disease, to determine clinical 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 was created by researchers affiliated with AIHRQ’s Effective Health Care Program, particularly those who participated in AIHRQ’s DcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.

This open access volume is the first academic book on the controversial issue of including spiritual care in integrated electronic medical records (EMR). Based on an international study group comprising researchers from Europe (The Netherlands, Belgium and Switzerland), the United States, Canada, and Australia, this edited collection provides an overview of different charting practices and experiences in various countries and healthcare contexts. Encompassing case studies and analyses of theological, ethical, legal, healthcare policy, and practical issues, the volume is a groundbreaking reference for future discussion, research, and strategic planning for inter- or multi-faith healthcare chaplains and other spiritual care providers involved in the new field of documenting spiritual care in EMR. Topics explored among the chapters include: Spiritual Care Charting/Documenting/Recording/Assessment Charting Spiritual Care: Psychiatric and Psychotherapeutic Aspects Palliative Chaplain Services Progress Notes Charting Spiritual Care: Ethical Perspectives Charting Spiritual Care in Digital Health: Analyses and Perspectives Charting Spiritual Care: The Emerging Role of Chaplaincy Records in Global Health Care is an essential resource for researchers in interprofessional spiritual care and healthcare chaplaincy, healthcare chaplains and other spiritual caregivers (nurses, physicians, psychologists, etc.), practical theologians and health ethicists, and church and denominational representatives.

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.

Proceedings of the ... New Zealand Geography Conference

Design, Operations, and Infrastructure

user’s guide

Electronic Health Records For Dummies

A User’s Guide

Diabetes:

The Locum Life: A Physician’s Guide to Locum Tenens, is an insider’s guide to locum tenens, the world of temporary physician positions. In 20 clearly written chapters, the author articulates the nuts and bolts of The Locum Life. Physicians will learn how to find their first locum tenens assignment, run their own business, travel, and achieve the work/life balance of their dreams. With clear, concise, engaging prose, Dr. Wilner has written the definitive guide to locum tenens.

*Practitioner’s Guide to Health Informatics*Springer
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.

All the food you eat, whether it’s an apple or a steak or a chocolate-coated cricket, has a story. Let’s Eat uncovers the secret lives of our groceries, exploring alternative—and sometimes bizarre—farm technology and touring gardens up high on corporate rooftops and down low in military-style bunkers beneath city streets. Packed with interesting and sometimes startling facts on agriculture around the world, Let’s Eat reveals everything from the size of the biggest farm in the world to how many pesticides are in a single grape to which insect people prefer to eat.

Text and Review

Phase 2

A Comprehensive Clinical & Disease Centric Tele-diabetes Application for the Management of Diabetes Mellitus

Electronic Health Records with Epic and IBM FlashSystem 9500 Blueprint Version 2 Release 4

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

Telemedicine in the ICU

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. Topics include: HI Overview; Healthcare Data, Information, and Knowledge; Electronic Health Records, Practice Management Systems; Health Information Exchange; Data Standards; Architectures of Information Systems;Health Information Privacy and Security; HI Ethics; Consumer HI; Mobile Technology; Online Medical Resources; Search Engines; Evidence-Based Medicine and Clinical Practice Guidelines; Disease Management and Registries; Quality Improvement Strategies; Patient Safety; Electronic Prescribing; Telemedicine; Picture Archiving and Communication Systems; Bioinformatics; Public HI; E-Research. Available as a printed copy and E-book.

The CMO Survival Guide is the handbook for the new Chief Medical Information Officer, as well as for those recruiting or planning to recruit a CMO. This quick reference is organized by real-world topics that CMOs need to know, as well as the criteria that the CIO, CMO or CEO should consider in identifying excellence in a CMO candidate. It is written by pioneering physicians and AMDIS faculty with a wealth of experience in medical informatics who create the vision, strategy and lessons learned for those interested in this relatively new role in healthcare. This second edition updates every chapter in the original work and adds new chapters to address the changes in healthcare delivery, the role of the physician executive, technology, medical education, small and rural hospitals. Being able to fit design into the agile software development processes is an important skill in today’s market. There are many ways for a UX team to succeed (and fail) at being Agile. This book provides you with the tools you need to determine what Agile UX means for you. It includes practical examples and case studies, as well as real-life factors to consider while navigating the Agile UX waters. You’ll learn about what contributes to your team’s success, and which factors to consider when determining the best path for getting there. After reading this book, you’ll have the knowledge to improve your software and product development with Agile processes quickly and easily. Includes hands on, real-world examples to illustrate the successes and common pitfalls of Agile UX Introduces practical techniques that can be used on your next project Details how to incorporate user experience design into your company’s agile software/product process

Here’s everything the robotics hobbyist needs to harness the power of the PICMicro MCU! In this heavily-illustrated resource, author John Iovine provides plans and complete parts lists for 11 easy-to-build robots each with a PICMicro “brain.” The expertly written coverage of the PIC Basic Computer makes programming a snap -- and lots of fun.

Enterprise Single Sign-On Design Guide Using IBM Security Access Manager for Enterprise Single Sign-On 8.2

Health IT and Patient Safety

How to Protect Yourself and Others from Medical Errors

Practical Guide to Clinical Computing Systems

The Emerging Role of Chaplaincy Records in Global Health Care

The Locum Life: A Physician’s Guide to Locum Tenens

This book provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information scientists in clinical/health informatics programs. These core competencies for clinical informatics are needed by all of those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.

Determinants of health- like physical activity levels and living conditions- have traditionally been the concern of public health and have not been linked closely to clinical practice. However, if standardized social and behavioral data can be incorporated into patient electronic health records (EHRs), those data can provide crucial information about factors that influence health and the effectiveness of treatment. Such information is useful for diagnosis, treatment choices, policy, health care system design, and innovations to improve health outcomes and reduce health care costs. Capturing Social and Behavioral Domains and Measures in Electronic Health Records: Phase 2 identifies domains and measures that capture the social determinants of health to inform the development of recommendations for the meaningful use of EHRs. This report is the second part of a two-part study. The Phase 1 report identified 17 domains for inclusion in EHRs. This report pinpoints 12 measures related to 11 of the initial domains and considers the implications of incorporating them into all EHRs. This book includes three chapters from the Phase 1 report in addition to the new Phase 2 material. Standardized use of EHRs that include social and behavioral domains could provide better patient care, improve population health, and enable more informative research. The recommendations of Capturing Social and Behavioral Domains and Measures in Electronic Health Records: Phase 2 will provide valuable information on which to base problem identification, clinical diagnoses, patient treatment, outcomes assessment, and population health measurement.

IBM’s 1999 landmark study To Err Is Human estimated that between 44,000 and 98,000 lives are lost every year due to medical errors. This call to action has led to a number of efforts to reduce errors and provide safe and effective health care. Information technology (IT) has been identified as a way to enhance the safety and effectiveness of care. In an effort to catalyze its implementation, the U.S. government has invested billions of dollars toward the development and meaningful use of effective health IT. Designed and properly applied, health IT can be a positive transformative force for delivering safe health care, particularly with computerized prescribing and medication safety. However, if it is designed and applied inappropriately, health IT can add an additional layer of complexity to the already complex delivery of health care. Poorly designed IT can introduce risks that may lead to unsafe conditions, serious injury, or even death. Poor human-computer interactions could result in wrong dosing decisions and wrong diagnoses. Safe implementation of health IT is a complex, dynamic process that requires a shared responsibility between vendors and health care organizations. Health IT and Patient Safety makes recommendations for developing a framework for patient safety and health IT. This book focuses on finding ways to mitigate the risks of health IT-assisted care and identifies areas of concern so that the nation is in a better position to realize the potential benefits of health IT. Health IT and Patient Safety is both comprehensive and specific in terms of recommended options and opportunities for public and private interventions that may improve the safety of care that incorporates the use of health IT. This book will be of interest to the health IT industry, the federal government, healthcare providers and other users of health IT, and patient advocacy groups.

This information is intended to facilitate the deployment of IBM® FlashSystem® for the Epic Corporation electronic health record (EHR) solution by describing the requirements and specifications for configuring IBM FlashSystem 9500 and its parameters. This document also describes the required steps to configure the server that hosts the EHR application. To complete these tasks, you must be knowledgeable of IBM FlashSystem 9500 and Epic applications. This Blueprint provides the following information: A solutions architecture and the related solution configuration information for the following essential components of software and hardware: Detailed technical configuration steps for configuring IBM FlashSystem 9500 Server configuration details for Caché database and Epic applications

PIC Robotics: A Beginner’s Guide to Robotics Projects Using the PIC Micro

CompTIA IT Fundamentals+ FC0-U61 Cert Guide

Why Epic Is the Best Electronic Health Records (EHR) System

Practitioner’s Guide to Health Informatics

Let’s Eat

Clinical Informatics Study Guide

The straight scoop on choosing and implementing an electronic health records (EHR) system Doctors, nurses, and hospital and clinic administrators are interested in learning the best ways to implement and use an electronic health records system so that they can be shared across different health care settings via a network-connected information system. This helpful, plain-English guide provides need-to-know information on how to choose the right system, assure patients of the security of their records, and implement an EHR in such a way that it causes minimal disruption to the daily demands of a hospital or clinic. Offers a plain-English guide to the many electronic health records (EHR) systems from which to choose Authors are a duo of EHR experts who provide clear, easy-to-understand information on how to choose the right EHR system an implement it effectively Addresses the benefits of implementing an EHR system so that critical information (such as medication, allergies, medical history, lab results, radiology images, etc.) can be shared across different health care settings Discusses ways to talk to patients about the security of their electronic health records Electronic Health Records For Dummies walks you through all the necessary steps to successfully choose the right EHR system, keep it current, and use it effectively.

Why Page Text [Edit] If you work with prescriptions or medical orders, chances are you will need to be familiar with electronic prescribing soon. Whether you are a health professional, physician, office manager, or medical secretary, THIS BOOK will provide the information you need to know for safe electronic prescribing by exploring how e-prescribing works, recognizing what e-prescribing features can help hinder safe prescribing, and offering practical advice for implementing e-prescribing. Not only will readers learn to use electronic prescribing technology safely, they will gain an appreciation for the roles their fellow healthcare workers play.

*Each year one out of every four hospital patients in the United States will be harmed by the care they receive. Over 400,000 will die as a result. Dr. Gretchen LeFever Watson’s definitive guide empowers patients to be patient safety advocates. It takes a village to combat preventable errors and omissions that cause millions of deaths and sickness in our nation’s hospitals and care facilities. Although most of these deaths are due to human and system errors—not faulty medical decisions or diagnoses—this annual death toll—as well as the millions of additional incidents of survivable patient harm—could be cut in half through consistent use of simple and nearly cost-free safety behaviors. In Your Patient Safety Survival Guide, Gretchen LeFever Watson delivers a patient-centered blueprint on how to transform the patient-safety movement so that millions of unnecessary illnesses and deaths in hospitals, outpatient facilities, and nursing homes can be avoided. She provides key safety habits that people must learn to recognize so they can be sure hospital personnel use them during every patient encounter. She also explains how addressing the most common safety problems will set the stage for tackling a wide range of issues, including healthcare’s role in the overuse of opiate painkillers and its related heroin epidemic. Watson’s call for a more sensible societal response to medical and human error in hospitals promotes a timely and full disclosure of all mistakes—an approach that has been proven to accelerate the emotional recovery of everyone affected by patient safety events while also reducing the financial burden on hospitals, providers, and patients. Readers will learn how to:
• Change behavior to catch medical errors before they result in illness or death.
• Prevent the spread of dangerous infections in hospitals and other care facilities.
• Leverage the power of basic safety/hygiene habits.
• Eliminate mistakes during surgery and other invasive procedures.
• Avoid medication errors and the overuse of opiates
• Raise awareness and inspire civic action in their communities.*

Written by the top medical student rotators, this book provides medical students with the often elusive information and skills required to ace their clinical rotations. Chapters cover all major medical sub-specialties such as internal medicine, general surgery, cardiology, dermatology, orthopedics, neurosurgery, and ophthalmology. Additionally, the book offers many novel features including a review of core rotation skills for oral presentations and a walk-through of a day in the life of the medical student on a particular rotation. It focuses on the common cases that students actually encounter in the hospital. This format thereby administers a complete, concise overview of what is needed for each rotation. A unique resource, The Ultimate Medical School Rotation Guide is not only instructional and comprehensive, but also assuring and supportive as it encourages students to appreciate this rewarding time in their medical careers.

Sustainable Food for a Hungry Planet

Letter Report

Charting Spiritual Care

The CMO Survival Guide

Registries for Evaluating Patient Outcomes

The Impact of Bad Product Design and How to Fix It

Everyone feels the pain of too many passwords to remember. Everyone can relate to the security exposure of weak passwords, chosen for convenience. And, everyone can relate to passwords placed in proximity to the workstation for a quick reminder. Unfortunately, that note can allow more than the intended user into the system and network. The average user today often has four or more passwords. And, security policies that focus on password complexity and password-change frequency can cause even more difficulty for users. This IBM® Redbooks® publication introduces IBM Security Access Manager for Enterprise Single Sign-On 8.2, which provides single sign-on to many applications, without a lengthy and complex implementation effort. Whether you are deploying strong authentication, implementing an enterprise-wide identity management initiative, or simply focusing on the sign-on challenges of a specific group of users, this solution can deliver the efficiencies and security that come with a well-crafted and comprehensive single sign-on solution. This book is a valuable resource for security officers, administrators, and architects who want to understand and implement an identity management solution in a medium-scale environment. This book is an update to the existing SG24-7350-01. IMPORTANT: Please note that in the latest version of SAM ESSO, the following two capabilities described in this SAM ESSO Redbooks publication have been removed: -Virtual appliance support -Mobile (iPad) support

Health Informatics: Practical Guide focuses on the application of information technology in healthcare to improve individual and population health, education and research. The goal of the seventh edition is to stimulate and educate healthcare and IT professionals and students about the key topics in this rapidly changing field. Dr. William Hersh from Oregon Health & Science University is the co-editor and author of multiple chapters. Topics include Health Informatics (HI) overview, electronic health records, healthcare data analytics, health information exchange, architecture of information systems, evidence-based medicine, safety, health informatics, HI ethics, quality improvement strategies and more. The 22 chapters feature learning objectives, case studies, recommended reading, future trends, key points, conclusions and over 1800 references. It is available as a paperback and an eBook. Visit the textbook companion website at http://informaticseducation.org/ for more information. At the intersection of computer science and healthcare, data analytics has emerged as a promising tool for solving problems across many healthcare-related disciplines. Supplying a comprehensive overview of recent healthcare analytics research, Healthcare Data Analytics provides a clear understanding of the analytical techniques currently available to solve healthcare problems. The book details novel techniques for acquiring, handling, retrieving, and making best use of healthcare data. It analyzes recent developments in healthcare computing and discusses emerging technologies that can help improve the health and well-being of patients. Written by prominent researchers and experts working in the healthcare domain, the book sheds light on many of the computational challenges in the field of medical informatics. Each chapter in the book is structured as a “survey-style” article discussing the prominent research issues and the advances made on that research topic. The book is divided into three major categories: Healthcare Data Sources and Basic Analytics - details the various healthcare data sources and analytical techniques used in the processing and analysis of such data Advanced Data Analytics for Healthcare - covers advanced analytical methods, including clinical prediction models, temporal pattern mining methods, and visual analytics Applications and Practical Systems for Healthcare - covers the applications of data analytics to pervasive healthcare, fraud detection, and drug discovery along with systems for medical imaging and decision support Computer scientists are usually not trained in domain-specific medical concepts, whereas medical practitioners and researchers have limited exposure to the data analytics area. The contents of this book will help to bring together these diverse communities by carefully and comprehensively discussing the most relevant contributions from each domain.

Why Epic is the best electronic health records (EHR) system

Scientific and Technical Aerospace Reports

A Handbook for Chief Medical Information Officers and Those Who Hire Them, Second Edition

Capturing Social and Behavioral Domains and Measures in Electronic Health Records

Electronic Prescribing: A Safety and Implementation Guide

Integrating Device Data into the Electronic Medical Record

Information Bulletin

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CompTIA IT Fundamentals FC0-U61 exam success with this CompTIA Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CompTIA IT Fundamentals FC0-U61 exam topics Assess your knowledge with practice questions Review key concepts with exam preparation tasks Practice with realistic exam questions Get practical guidance for next steps and more advanced certifications CompTIA IT Fundamentals Cert Guide is a best-of-breed exam study guide. Leading IT certification expert Mark Edward Soper shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The CompTIA study guide helps you master all the topics on the IT Fundamentals exam, including: IT concepts and terminology, including data types, input, processing, output, storage, the value of data and information, and basic troubleshooting methods Infrastructure, including I/O hardware, peripheral setup/installation, internal computer components, Internet service types, storage types, computing devices, and networking Applications and software, including software management, operating system components, software types and uses, application architecture and delivery models, web browser configuration, application concepts, and best practices Software development concepts, including types of programming languages, programming organization techniques and logic, and basic programming concepts Database concepts, purposes, structures, and interfaces Security issues, including confidentiality, integrity, and availability; device security; behavioral security; authentication and authorization; password best practices; encryption; and business continuity concepts

Integration of vital signs and point-of-care medical devices must interoperate directly and seamlessly with information technology systems to facilitate effective patient care management within the healthcare enterprise. This is the first book addressing medical device integration with the computer-based patient record in a holistic way. Readers step into the area of two-way device communication & control and learn best practices from an author known for his brilliant expertise in this field. It is a fundamental guide for a broad group of people: clinical and biomedical engineers, physicians, bioinformatics practitioners, and vendors. Providing the essential how-to for medical device integration into the electronic medical record (EMR), health information system (HIS), and computerized patient record (CPR), the book highlights information on data extraction, usually not offered by device vendors. This comprises topics such as the use of third-party software, information on what to do when you develop interfaces on your own, regulatory issues, and how to assure connectivity and access to data. For physicians, it is a primer and knowledge manual for data integration when applied to clinical care and trials. It gives information on knowledge management and how data can be used statistically and as a tool in patient care management. Furthermore, it impresses upon the reader the quantities of data that must be processed and reduced to make for effective use at the point of care. HIS and CPR vendors may learn how data integration can be simplified and how software developers may be assisted in the process of communicating vital information to their repositories. The book is rounded off by a chapter on the future of integration.

Includes the Proceedings of the New Zealand Geology Conference. 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 a stronger information technology infrastructure is 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 computer-aided decision support interactions). The book examines care delivery functions, such as database management and the use of health care data standards to better advance the safety, quality, and efficiency of health care in the United States.

DICOM Structured Reporting

Building Safer Systems for Better Care

Health Informatics: Practical Guide Seventh Edition

A Practitioner’s Guide to Making it Work

OCLC Communications Controller User Guide

This book trains the next generation of scientists representing different disciplines to leverage the data generated during routine patient care. It formulates a more complete lexicon of evidence-based recommendations and support shared, ethical decision making by doctors with their patients. Diagnostic and therapeutic technologies continue to evolve rapidly, and both individual practitioners and clinical teams face increasingly complex ethical decisions. Unfortunately, the current state of medical knowledge does not provide the guidance to make the majority of clinical decisions on the basis of evidence. The present research infrastructure is inefficient and frequently produces unreliable results that cannot be replicated. Even randomized controlled trials (RCTs), the traditional gold standards of the research reliability hierarchy, are not without limitations. They can be costly, labor intensive, and slow, and can return results that are seldom generalizable to every patient population. Furthermore, many pertinent but unresolved clinical and medical systems issues do not seem to have attracted the interest of the research enterprise, which has come to focus instead on cellular and molecular investigations and single-agent (e.g., a drug or device) effects. For clinicians, the end result is a bit of a “data desert” when it comes to making decisions. The new research in infrastructure proposed in this book will help the medical profession to make ethically sound and well informed decisions for their patients.

“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 1 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 team-, 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 and prevention. This book is clearly written, up-to-date and uses real world examples extensively to explain the tools and technologies and illustrate their practical role and potential impact on providers, patients, researchers, and society as a whole.

The Clinician’s Guide to Swallowing Fluoroscopy is a comprehensive resource for all dysphagia clinicians. This beautifully-illustrated text is intended for SLP, ENT, radiology, GI, and rehabilitation specialists interested in swallowing and addresses the need for an up-to-date, all-inclusive reference. Topics covered include radiation safety and protection, fluoroscopic oral, pharygeal, and esophageal phase protocols and abnormalities, and objective measures of timing and displacement.

Bad design is everywhere, and its cost is much higher than we think. In this thought-provoking book, authors Jonathan Shariat and Cynthia Savard Saucier explain how poorly designed products can anger, sadden, exclude, and even kill people who use them. The designers responsible certainly didn’t intend harm, so what can you do to avoid making similar mistakes? Tragic Design examines real case studies that show how certain design choices adversely affected users, and includes in-depth interviews with authorities in the design industry. Pick up this book and learn how you can be an agent of change in the design community and at your company. You’ll explore: Designs that can kill, including the bad interface that doomed a young cancer patient Designs that anger, through impolite technology and dark patterns How design can inadvertently cause emotional pain Designs that exclude people through lack of accessibility, diversity, and justice How to advocate for ethical design when it can’t do so Tools and techniques that can help you avoid harmful design decisions Inspiring professionals who use design to improve our world

What Matters Most

The Ultimate Medical School Rotation Guide

Agile User Experience Design

Secondary Analysis of Electronic Health Records

Epic and ARM

FEDLINK Technical Notes

*The development of clinical computing systems is a rapidly growing priority area of health information technology, spurred in large measure by robust funding at the federal and state levels. It is widely recognized as one of the key components for reducing costs and improving the quality of care. At the same time as more and more hospitals and clinics are installing clinical computing systems, major issues related to design, operations, and infrastructure remain to be resolved. This book tackles these critical topics, including system selection, configuration, installation, user support, interface engines, and long-term operation. It also familiarizes the reader with regulatory requirements, budgetary issues, and other aspects of this new electronic age of healthcare delivery. It begins with an introduction to clinical computing and definition of key terminology. The next several chapters talk about system architecture and interface design, followed by detailed discussion of all aspects of operations. Attention is then given to the realities of leadership, planning, oversight, budgeting, and employee recruitment. This invaluable resource includes a special section that talks about career development for students and others interested in entering the field. *Provides a complete overview of practical aspects *Detailed guidance on the design and operation of clinical computing systems *Discusses how clinical computing systems relate to health care organization committees and organizational structure *Includes numerous real-life examples with expert insights on how to avoid pitfalls*

Your Patient Safety Survival Guide

Key Capabilities of an Electronic Health Record System

The Clinician’s Guide to Swallowing Fluoroscopy

A Developer’s Guide to Designing and a Practitioner’s Guide to Application

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

Patient Outcomes and the Transformation of Health Care