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Prof. Robert Lustig - 'The three faces of metabolic syndrome'*Can Fructose (Fruits Sugar) Cure Diabetes ? Dr. Paul Saladino - 'Debunking The Carnivore Diet'*

World in Transition - A Spiritual Awakening and New Paradigm | Golo J. Pilz | TEDxSlottsparken*Devising a clinical information systems strategy* The effect of trauma on the brain and how it affects behaviors | John Rigg | TEDxAugusta

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As the number of healthcare organizations beginning to implement clinical information systems grows, the number of unanticipated and unintentional consequences inevitably increases as well. While existing research suggests that much good can come

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Part of the JONES AND BARTLETT SERIES IN BIOMEDICAL INFORMATICS As the number of healthcare organizations beginning to implement clinical information systems grows, the number of unanticipated and unintentional consequences inevitably increases as well. While existing research suggests that much good can come from clinicians entering orders directly, errors or other unintended consequences related to technology may arise. Ideal for both clinicians and information technology professionals, Clinical Information Systems: Overcoming Adverse Consequences helps fledgling organizations better prepare for the inevitable challenges and obstacles they will face upon the implementation of such systems. Based on the research and findings from the Provider Order Entry Team from the Oregon Health & Science University, this book discusses the nine categories of unintended adverse consequences that occurred at many of the leading medical centers during their implementation and maintenance of a state-of-the-art clinical information system. It goes on to present the best practices they identified to help organizations overcome these obstacles.

Healthcare Information Management Systems, 4th edition, is a comprehensive volume addressing the technical, organizational and management issues confronted by healthcare professionals in the selection, implementation and management of healthcare information systems. With contributions from experts in the field, this book focuses on topics such as strategic planning, turning a plan into reality, implementation, patient-centered technologies, privacy, the new culture of patient safety and the future of technologies in progress. With the addition of many new chapters, the 4th Edition is also richly peppered with case studies of implementation. The case studies are evidence that information technology can be implemented efficiently to yield results, yet they do not overlook pitfalls, hurdles, and other challenges that are encountered. Designed for use by physicians, nurses, nursing and medical directors, department heads, CEOs, CFOs, CIOs, COOs, and healthcare informaticians, the book aims to be a indispensible reference.

Advancements in technology regularly influence the healthcare field and developing aspects on medical patient safety. Implementing electronic health records, decision support systems, and computerized physician order entry systems reduces risk in the potential for e-health to make errors leading to adverse events. E-Health Technologies and Improving Patient Safety: Exploring Organizational Factors presents an overview on information and communication technologies and addresses the impacts on the field of both patient safety and e-health. This book offers insightful perspectives and concentrated research on concepts related to these areas, as well as issues and current trends in patient safety in e-health.

Winner of two first place AJN Book of the Year Awards! This award-winning resource uniquely integrates national goals with nursing practice to achieve safe, efficient quality of care through technology management. The heavily revised third edition emphasizes the importance of federal policy in digitally transforming the U.S. healthcare delivery system, addressing its evolution and current policy initiatives to engage consumers and promote interoperability of the IT infrastructure nationwide. It focuses on ways to optimize the massive U.S. investment in HIT infrastructure and examines usability, innovative methods of workflow redesign, and challenges with electronic clinical quality measures (eCQMs). Additionally, the text stresses documentation challenges that relate to usability issues with EHRs and sub-par adoption and implementation. The third edition also explores data science, secondary data analysis, and advanced analytic methods in greater depth, along with new information on robotics, artificial intelligence, and ethical considerations. Contributors include a broad array of notable health professionals, which reinforces the book's focus on interprofessionalism. Woven throughout are the themes of point-of-care applications, data management, and analytics, with an emphasis on the interprofessional team. Additionally, the text fosters an understanding of compensation regulations and factors. New to the Third Edition: Examines current policy initiatives to engage consumers and promote nationwide interoperability of the IT infrastructure Emphasizes usability, workflow redesign, and challenges with electronic clinical quality measures Covers emerging challenge proposed by CMS to incorporate social determinants of health Focuses on data science, secondary data analysis, citizen science, and advanced analytic methods Revised chapter on robotics with up-to-date content relating to the impact on nursing practice New information on artificial intelligence and ethical considerations New case studies and exercises to reinforce learning and specifics for managing public health during and after a pandemic COVID-19 pandemic-related lessons learned from data availability, data quality, and data use when trying to predict its impact on the health of communities Analytics that focus on health inequity and how to address it Expanded and more advanced coverage of interprofessional practice and education (IPE) Enhanced instructor package Key Features: Presents national standards and healthcare initiatives as a guiding structure throughout Advanced analytics is reflected in several chapters such as cybersecurity, genomics, robotics, and specifically exemplify how artificial intelligence (AI) and machine learning (ML) support related professional practice Addresses the new re-envisioned AACN essentials Includes chapter objectives, case studies, end-of-chapter exercises, and questions to reinforce understanding Aligned with QSEN graduate-level competencies and the expanded TIGER (Technology Informatics Guiding Education Reform) competencies.

This 5th edition of this essential textbook continues to meet the growing demand of practitioners, researchers, educators, and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical science, patient care, public health and information technology (IT). Emphasizing the conceptual basis of the field rather than technical details, it provides the tools for study required for readers to comprehend, assess, and utilize biomedical informatics and health IT. It focuses on practical examples, a guide to additional literature, chapter summaries and a comprehensive glossary with concise definitions of recurring terms for self-study or classroom use. Biomedical Informatics: Computer Applications in Health Care and Biomedicine reflects the remarkable changes in both computing and health care that continue to occur and the exploding interest in the role that IT must play in care coordination and the melding of genomics with innovations in clinical practice and treatment. New and heavily revised chapters have been introduced on human-computer interaction, mHealth, personal health informatics and precision medicine, while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area. The organization and philosophy remain unchanged, focusing on the science of information and knowledge management, and the role of computers and communications in modern biomedical research, health and health care.

Designed specifically for graduate-level nursing informatics courses, this is the first text to focus on using technology with an interprofessional team to improve patient care and safety. It delivers an expansive and innovative approach to devising practical methods of optimizing technology to foster quality of patient care and support population health initiatives. Based on the requirements of the DNP Essential IV Core Competency for Informatics and aligning with federal policy health initiatives, the book describes models of information technology the authors have successfully used in health IT, as well as data and analytics used in business, for-profit industry, and not-for-profit health care association settings, which they have adapted for nursing practice in order to foster optimal patient outcomes. The authors espouse a hybrid approach to teaching with a merged competency and concept-based curriculum. With an emphasis on the benefits of an interprofessional team, the book describes the most effective approaches to health care delivery using health information technology. It describes a nursing informatics model that is comprised of three core domains: point-of-care technology, data management and analytics, and patient safety and quality. The book also includes information on point-of-care applications, population health, data management and integrity, and privacy and security. New and emerging technologies explored include genomics, nanotechnology, artificial intelligence, and data mining. Case studies and critical thinking exercises support the concept-based curriculum and facilitate out-of-the-box thinking. Supplemental materials for instructors include PowerPoint slides and a test bank. While targeted primarily for the nursing arena, the text is also of value in medicine, health information management, occupational therapy, and physical therapy. Key Features: Addresses DNP Essential IV Core Competency for Informatics Focuses specifically on using nursing informatics expertise to improve population health, quality, and safety Advocates an interprofessional team approach to optimizing health IT in all practice settings Stimulates critical thinking skills that can by applied to all aspects of IT health care delivery Discusses newest approaches to interprofessional education for IT health care delivery

This important volume provide 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.

First Edition Received 100 Points and 5-Star Doody'sReview! This is the only nursing text to facilitate the achievement by Doctor of Nursing Practice graduates (DNPs) s of the highest possible competency in conducting systematic and in-depth evaluations of all aspects of health care. The second edition of this award-winning text keeps pace with the rapidly evolving health care market by presenting a more comprehensive range of evaluation strategies for analyzing quality, safety, and value in health care practice and programs, with an emphasis on conducting, interpreting, and disseminating findings. It includes three new chapters addressing evaluation and outcomes, program evaluation, quality improvement, and reporting and disseminating the results. Based on the best evidence-based practices, the book provides DNPs with in-depth information on the conceptual basis of evaluation, its application as an integral part of contemporary health care delivery, and resources and methodology for evaluation of practice outcomes. It includes a critical examination of the characteristics, sources, and quality of the nature of evidence and presents several different evaluation models including those that focus oneconomic evaluation. The evaluation of organizations, systems, and standards for practice are covered in detail as are the involvement of populations and health care teams, particularly interdisciplinary collaborative health teams. Also addressed is the process for translating outcomes from evaluation into health care policy, and opportunities for advocacy and leadership. Numerous examples and case studies illustrate concepts. New to the Second Edition: Includes three (3) new chapters that address evaluation and outcomes, program evaluation, quality improvement, and reporting and disseminating the results Explores health care practice determinates related to quality, safety, and value Covers how to lead and participate in comprehensive health care evaluations using best practices in conduct, interpretation and dissemination Includes strategies for evaluating small, medium, and large programs Key Features: Facilitates competency in conducting systematic and in-depth evaluations of all aspects of health care Based on best practices and evidence based practices Offers practical methods and tools used to conduct and implement a QI project Provides numerous examples and case studies Encourages the dissemination of results using a variety of venues, such as formal presentations, posters, and publications

This book provides an overview of the challenges in electronic health records (EHR) design and implementation along with an introduction to the best practices that have been identified over the past several years. The book examines concerns surrounding EHR use and proposes eight examples of proper EHR use. It discusses the complex strategic planning that accompanies the systemic organizational changes associated with EHR programs and highlights key lessons learned regarding health information—including technology errors and risk management concerns.

A "must have" text for all healthcare professionals practicing in the digital age of healthcare. Nursing Informatics for the Advanced Practice Nurse, Second Edition, delivers a practical array of tools and information to show how advanced practice nurses can maximize patient safety, quality of care, and cost savings through the use of technology. Since the first edition of this text, health information technology has only expanded. With increased capability and complexity, the current technology landscape presents new challenges and opportunities for interprofessional teams. Nurses, who are already trained to use the analytic process to assess, analyze, and intervene, are in a unique position to use this same process to lead teams in addressing healthcare delivery challenges with data. The only informatics text written specifically for advanced practice nurses, Nursing Informatics for the Advanced Practice Nurse, Second Edition, takes an expansive, open, and innovative approach to thinking about technology. Every chapter is highly practical, filled with case studies and exercises that demonstrate how the content presented relates to the contemporary healthcare environment. Where applicable, concepts are aligned with the six domains within the Quality and Safety Education in Nursing (QSEN) approach and are tied to national goals and initiatives. Featuring chapters written by physicians, epidemiologists, engineers, dieticians, and health services researchers, the format of this text reflects its core principle that it takes a team to fully realize the benefit of technology for patients and healthcare consumers. 'What's New Several chapters present new material to support teams' optimization of electronic health records Updated national standards and initiatives Increased focus and new information on usability, interoperability and workflow redesign throughout, based on latest evidence Explores challenges and solutions of electronic clinical quality measures (eCQMs), a major initiative in healthcare informatics; Medicare and Medicaid Services use eCQMs to judge quality of care, and how dynamics change rapidly in today's environment Key Features Presents national standards and healthcare initiatives Provides in-depth case studies for better understanding of informatics in practice Addresses the DNP Essentials, including II: Organization and system leadership for quality improvement and systems thinking, IV: Core Competency for Informatics, and Interprofessional Collaboration for Improving Patient and Population health outcomes Includes end-of-chapter exercises and questions for students Instructor's Guide and PowerPoint slides for instructors Aligned with QSEN graduate-level competencies