

# Health IT and Patient Safety

Building Safer Systems  
for Better Care



INSTITUTE OF MEDICINE  
OF THE NATIONAL ACADEMIES

# Health It And Patient Safety Building Safer Systems For Better Care

**NAHQ, Luc R. Pelletier, Christy L.  
Beaudin**



## **Health It And Patient Safety Building Safer Systems For Better Care:**

**Health IT and Patient Safety** Institute of Medicine, Board on Health Care Services, Committee on Patient Safety and Health Information Technology, 2012-03-15 IOM'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.

**Health IT and Patient Safety**, Health Information Technology Evaluation Handbook Vitaly Herasevich, MD, PhD, MSc, Brian W. Pickering, MD, MSc, 2021-11-18 Governments and clinical providers are investing billions of dollars in health information technologies (HIT). This is being done with the expectation that HIT adoption will translate into healthier patients experiencing better care at lower cost. In the initial push to roll out HIT, the reliability of these claims was often not substantiated by systematic evaluation and testing. As the first wave of widespread adoption of HIT comes to an end and the next wave begins, it is more important than ever that stakeholders evaluate the results of their investment, evaluate their success or failure, and make decisions about future directions. Structured evaluations of a project's impact are an essential element of the justification for investment in HIT. A systematic approach to evaluation and testing should allow for comparison between different HIT interventions with the goal of identifying and promoting those which improve clinical care or other outcomes of interest. The question of the day is no longer why perform evaluations but how to perform evaluations. This updated book provides an easy-to-read reference outlining the basic concepts, theory, and methods required to perform a systematic evaluation of HIT. Chapters cover key domains of HIT evaluation: study structure and design, measurement fundamentals,

results analysis communicating results guidelines development and reference standards Updated case studies and examples are included demonstrating the successes or failures of these investments The authors also include new initiatives put in place by the government and discuss how they are being adopted and used by health systems     Enabling Health and Healthcare Through ICT Karen L. Courtney, Omid Shabestari, Alex Mu-Hsing Kuo, 2013 For many people in both developing and developed countries universal healthcare is still not the norm Socio economic status and geographical restrictions have proved to be major barriers to accessible care The use of information and communication technologies ICT is growing rapidly internationally as the need to provide more efficient and cost effective care becomes increasingly urgent Improving the health of a nation begins with the individual and recent developments in genomics and mobile networked information technologies have regenerated interest in individualizing healthcare Harnessing the diversity and ubiquity of available ICT may be one of the keys to enabling more accessible healthcare across both geographic and socio economic divides This book presents the proceedings of the 2013 Information Technology and Communication in Health ITCH 2013 conference This conference entitled Available Tailored and Closer was held in Victoria BC Canada in February 2013 The theme of the ITCH 2013 conference was realizing the enabling potential of information and communications technology worldwide Papers in this book are arranged according to subject Sections include electronic health records telecare telemedicine and telelaboratory public health informatics clinical decision support systems human computer interaction patient safety and healthcare modeling among others This book will be of interest to all those involved in providing improved and cost effective healthcare worldwide     *E-Health Technologies and Improving Patient Safety: Exploring Organizational Factors* Moutzoglou, Anastasius, 2012-12-31 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     *Health Informatics: Practical Guide for Healthcare and Information Technology Professionals (Sixth Edition)* Robert E. Hoyt, Ann K. Yoshihashi, 2014 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     **Health Informatics: Practical Guide for Healthcare and Information Technology Professionals (Fifth Edition)** Robert E Hoyt, Nora Bailey, Ann Yoshihashi, 2012 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

**Understanding Health Information Systems for the Health Professions** Jean A Balgrosky, 2019-03-19 Covering the principles of HIS planning cost effectiveness waste reduction efficiency population health management patient engagement and prevention this text is designed for those who will be responsible for managing systems and information in health systems and provider organizations

**Evidence-Based Health Informatics** Elske Ammenwerth, 2016-05-15 Health IT is a major field of investment in support of healthcare delivery but patients and professionals tend to have systems imposed upon them by organizational policy or as a result of even higher policy decision And while many health IT systems are efficient and welcomed by their users and are essential to modern healthcare this is not the case for all Unfortunately some systems cause user frustration and result in inefficiency in use and a few are known to have inconvenienced patients or even caused harm including the occasional death This book seeks to answer the need for better understanding of the importance of robust evidence to support health IT and to optimize investment in it to give insight into health IT evidence and evaluation as its primary source and to promote health informatics as an underpinning science demonstrating the same ethical rigour and proof of net benefit as is expected of other applied health technologies The book is divided into three parts the context and importance of evidence based health informatics methodological considerations of health IT evaluation as the source of evidence and ensuring the relevance and application of evidence A number of cross cutting themes emerge in each of these sections This book seeks to inform the reader on the wide range of knowledge available and the appropriateness of its use according to the circumstances It is aimed at a wide readership and will be of interest to health policymakers clinicians health informaticians the academic health informatics community members of patient and policy organisations and members of the vendor industry

**Applied Clinical Informatics for Nurses with Navigate Advantage Access** Heather Carter-Templeton, Susan Alexander, Karen Frith, 2024-12-09 Nurses need to be aware of the latest information technologies and research available to provide safe patient centered evidence based care Applied Clinical Informatics for Nurses continues its student centered approach to nursing informatics in a modern new edition full of illustrations tables figures and boxes that enhance the readers experience and assists in comprehension In the updated Third Edition the authors emphasize the importance of understanding principles and applications of informatics and apply a context based teaching approach to

enhance clinical decision making promote ethical conduct and improve problem solving skills The Third Edition features extensive updates on telehealth mobile health and clinical decision support It also includes expanded information related to software used for data mining and additional case studies to help illustrate creative informatics projects developed by nurses

Pharmaceutical Public Policy Thomas R. Fulda, Alan Lyles, Albert I Wertheimer, 2016-04-14 As the most common health care intervention prescription drug use shares the most important characteristics of the health care system in the United States When everything works well it makes possible breathtakingly successful applications of science to the prevention and cure of human suffering But everything doesn't always work well Pharmaceu

**Context Sensitive Health Informatics: Many Places, Many Users, Many Contexts, Many Uses** E.M. Borycki, A.W. Kushniruk, C.E. Kuziemy, 2015-08-14 Context is key in the design implementation and evaluation of health information technology Healthcare systems around the world are in transition adopting technologies to deal with the problems of aging populations increased numbers of chronically ill patients and limited resources But a one size fits all approach is not the answer and may limit those local healthcare system innovations that are so crucial to the development of health informatics Even the most advanced systems will fail to achieve the desired outcomes if context is not taken into account This book presents the proceedings of the Context Sensitive Health Informatics CSHI conference held in Curitiba Brazil in August 2015 Context sensitive health informatics is about health information technologies and their environments and the 26 papers included here examine how health informatics systems are developed implemented and evaluated in a complex environment of many places many users many uses and in many contexts The book is divided into four themes different users in different contexts evaluating for context through usability testing and ensuring patient safety organizational and social issues in different places and understanding different contexts using theory This overview of the research and experience critical to ensuring the successful introduction and adaptation of healthcare systems to new countries contexts and healthcare settings will be of interest to all those involved in improving the quality of healthcare worldwide

**Nursing Informatics for the Advanced Practice Nurse** Susan McBride, Mari Tietze, 2015-12-03 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 be applied to all aspects of IT health care delivery Discusses newest approaches to interprofessional education for IT health care delivery

**Health Informatics: Practical Guide Seventh Edition** William R. Hersh, Robert E. Hoyt, 2018 Health informatics is the discipline concerned with the management of healthcare data and information through the application of computers and other information technologies The field focuses more on identifying and applying information in the healthcare field and less on the technology involved Our goal is to stimulate and educate healthcare and IT professionals and students about the key topics in this rapidly changing field This seventh edition reflects the current knowledge in the topics listed below and provides learning objectives key points case studies and extensive references Available as a paperback and eBook Visit the textbook companion website at <http://informaticseducation.org> for more information Page 4 de la couverture

**Forecasting Informatics Competencies for Nurses in the Future of Connected Health** Judy Murphy, William Goossen, 2017-01-15 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 in practice and as such it will also help outline the requirements for 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

**Professional Nursing**

**Concepts: Competencies for Quality Leadership** Anita Finkelman, 2021-12-06 Professional Nursing Concepts

Competencies for Quality Leadership Fifth Edition takes a patient centered traditional approach to the topic of nursing education

**HIT or Miss for the Student** Jonathan Leviss, 2019-05-31 HIT or Miss for Student Lessons Learned from Health Information Technology Projects presents and dissects a wide variety of HIT failures so that the students can understand in each case what went wrong and why and how to avoid such problems without focusing on the involvement of specific people organizations or vendors The lessons may be applied to future and existing projects or used to understand why a previous project failed The student also learns how common causes of failure affect different kinds of HIT projects and with different results Cases are organized by the type of focus hospital care ambulatory care and community Each case provides analysis by an author who was involved in the project plus the insight of an HIT expert This book presents a model to discuss HIT failures in a safe and protected manner providing an opportunity to focus on the lessons offered by a failed initiative as opposed to worrying about potential retribution for exposing a project as having failed Access expert insight into key obstacles that must be overcome to leverage IT and transform healthcare Each identified case study includes an analysis by a group of industry experts along with a counter analysis Cases include a list of key words and are categorized by project e g CPOE business intelligence Each chapter or case contains test questions and study suggestions for the student Answers are provided as an appendix to the book Whether you re a graduate student in a health administration or health IT program or attending training sessions sponsored by their healthcare organization this valuable resource for all who want to understand the dynamics of HIT projects and why some fail and others succeed

[Applied Clinical Informatics for Nurses](#) Alexander, 2017-12-05 Applied Clinical Informatics for Nurses Second Edition employs a contextually based teaching approach to promote clinical decision making ethical conduct and problem solving

**HQ Solutions** NAHQ, Luc R. Pelletier, Christy L. Beaudin, 2017-10-16 For comprehensive guidance on creating quality structures that support patient provider collaboration cost effective solutions and safe efficient care get the fully updated HQ Solutions an official publication of the National Association for Healthcare Quality NAHQ Written by HQ experts and applicable to all practice settings this essential resource offers healthcare quality professionals the theoretical and practical basis for safe reliable cost effective care including the use of state of the art tools for measuring monitoring selecting and managing data Invaluable for preparing for the Certified Professional in Healthcare Quality CPHQ certification exam this is an optimal healthcare quality professional s resource Create a safer more efficient care environment with proven quality improvement practices NEW quality and safety tools and techniques adaptable to any care setting NEW and updated content on recent changes in U S healthcare quality requirements legislation and reform NEW content on core skills and methods of organizational leadership patient safety performance and process improvement and health data analytics Key resource for HQ principles and practices vital for healthcare quality professionals including nurses instructors researchers consultants and clinicians in all practice



settings including home care hospices skilled nursing facilities rehab and ambulatory care as well as healthcare organizations healthcare boards and government agencies Organizational Leadership Leadership fundamentals and principles quality and safety infrastructure strategic planning and change management Real life scenarios solved with proven leadership formulas and evidence based solutions Performance measures key performance and quality indicators and performance improvement models Accreditation Regulation and Continuous Readiness Impact of regulations on healthcare quality and safety Continuous readiness activities Organizational assessment survey procedures and more Health Data Analytics Foundations of a solid data management system Tools approaches and application of data management systems data collection interpretation and reporting Analysis tools and basic statistical techniques and methods Patient Safety Practical tools for safety assessment planning implementation and evaluation Components of a safety culture Effective risk management strategies Performance Safety and Process Improvement Key principles and practices Critical pathways effective team building decision support benchmarking IOM imperatives analysis and interpretation of data decision support tools and more

Defining Excellence in Simulation Programs Janice C. Palaganas, Juli C. Maxworthy, Chad A. Epps, Mary E. Mancini, 2014-10-07 An Official Publication of the Society for Simulation in Healthcare Defining Excellence in Simulation Programs aims to meet the needs of healthcare practitioners using simulation techniques for education assessment and research Increasingly simulation is an integral part of teaching and training programs in healthcare settings around the world Simulation models including virtual simulation scenario based simulation with actors and computerized mannequins contributes to improved performance and reduced errors in patient care This text establishes working definitions and benchmarks for the field of simulation and defines the types of simulation programs while also covering program leadership funding staffing equipment and education models It provides knowledge critical to the success of simulation program management simulation educators and simulation researchers Written to appeal to the novice to advanced beginner a special section in each chapter is directed to the competent to expert programs managers educators and researchers so that this text truly can serve as the comprehensive reference for anyone in simulation

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