Health Informatics: A Systems Perspective, Second Edition

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Book Description

Instructor Resources: Authors’ responses to the chapter and case study discussion questions; guidance on how the case studies may be used; PowerPoint slides of the exhibits to supplement classroom discussions and lectures;
As the reach and influence of technology grow, the world becomes increasingly connected. What happens in one system—finance, manufacturing, research, infrastructure, supply chain, and many more—can have a significant impact on the activities and outcomes in other systems. Healthcare is no exception. Connecting all of these systems is vital in order to properly support clinical care. Health informatics has the potential to align these interlocking systems in a way that transforms clinical decision-making and healthcare delivery to optimize overall system performance.

*Health Informatics: A Systems Perspective* takes a systems approach to leveraging information in healthcare and enhancing providers’ capabilities through the use of technology and knowledge transfer. The book offers a conceptual framework for aligning clinical decision processes with system infrastructures, including information technology, organizational design, financing, and evaluation.

The book’s contributors—all leading academics and healthcare practitioners—balance theoretical viewpoints with practical considerations. Case studies and informative sidebars support theory with real-world applications, while learning objectives, key concepts, and discussion questions facilitate learning and reinforce content. A glossary, which defines the main concepts and key terminologies presented in the text, provides a useful overview of the material.

Thoroughly updated and revised, the second edition includes three new chapters on information systems in relation to population health, global health systems, and alternative financial mechanisms and their compatibility with innovative delivery models. Additional topics include:

- The role of human resources and information technology in healthcare
- Knowledge-based decision-making
- Transforming clinical work processes
- Nursing informatics
- Precision medicine
- Data and information security

An essential resource for students and practicing managers alike, *Health Informatics: A Systems Perspective* explains how information technology can enable the transformation of health organizations to improve not only the quality of healthcare, but also the health of individuals and populations.
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Health informatics or medical informatics is the intersection of information science, computer science and health care. It deals with the resources, devices and methods required to optimize the acquisition, storage, retrieval and use of information in health and biomedicine. Although a profusion of products exists, currently only a minority of health practitioners use fully featured electronic healthcare records systems. In the United States in 1996, HIPAA regulations concerning privacy and medical record transmission created the impetus for large numbers of physicians to move towards using EMR software, primarily for the purpose of secure medical billing. Health Care Informatics Systems Specialization. Learn the skills you need when faced with health challenges. You may choose to delve into other areas of health care and learn best practices for planning, executing, and evaluating health solutions when you add a specialization to your degree program. This undergraduate specialization consists of four (4), three (3) credit courses. Your specialization may require prerequisite course work. This course is a synthesis of the major ideas, perspectives, and concepts gained from the study of health informatics. Students will learn about the construction and utilization of health care data sets; the use of computerized statistical packages in health care; and the role of health informatics in financial and performance improvement goals. Consumer Health Informatics. Related terms: Participatory Medicine. “Health systems agencies frequently have a citizen participation structure, and in some instances there is a requirement for 50 percent consumer participation in planning processes and administrative decisions. … Some planners I have dealt with are beginning to believe that good medicine requires participatory medicine” [69]. In this section, we review the latest developments in this area, from the perspective of informatics. We identify new ways to collect and store personal health data first, and then provide some examples of trends in the use of these data, from exchange to analysis. Read full chapter.