Nursing Informatics and the Foundation of Knowledge, Fourth Edition

Featured Presenters: Dee McGonigle and Kathleen Mastrian
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The Authors

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- Director, Virtual Learning Experiences and Professor, Graduate Programs at Chamberlain College of Nursing
- Cofounder of the Online Journal of Nursing Informatics and Editor in Chief for 17 years until HIMSS took over the journal
- 35 years of computing and nursing informatics experience
- Over 40 years of teaching experience including > 25 years in online and virtual learning

Kathleen Mastrian, PhD, RN
- Associate Professor and Nursing Program Coordinator Penn State University
- 37 years teaching experience; over 15 years or experience teaching informatics
- Sr. Managing Editor of OJNI
Purpose

• To provide a set of practical and powerful tools to ensure that readers gain an understanding of NI principles and roles

• To prepare nursing students and nurses to meet the challenge of practicing nursing in the Knowledge Era while striving to improve patient care at all levels.

• Help the reader understand knowledge and how it is acquired, processed, generated, and disseminated

• Demonstrate the value of the NI discipline as an attractive field of specialization
Audience

• Nursing students from BS through DNP/PhD programs
• Nurses who acquire informatics roles in clinical agencies
• Practicing nurses who want to explore the transformative effects of technology
Pedagogy

• Introductions
• Chapter Objectives
• Key Terms (comprehensive definitions in glossary)
• Research Briefs
• Case Studies
• Summaries
• Thought-Provoking Questions
Text Overview

Based on the Foundation of Knowledge Model
- Knowledge concepts include:
  - Nurses as knowledge workers
  - Organizational knowledge management
  - Building the body of nursing knowledge

Features informatics competencies
- DIKW paradigm
- QSEN competencies
- AACN competencies BS thru Doctoral level
  - Competencies are mapped to TOC in instructor manual
Overview, cont.

Basic through complex concepts from novice through innovator level of competencies

- Building blocks of NI
- Cognitive science and cognitive informatics
- History and evolution of NI
- NI as a specialty
- Workflow
- New reimbursement paradigms beyond meaningful use
- Data mining
- Patient engagement
- Connected health
- Systems development life cycle
- Organizational decision making and knowledge management
- Telenursing and telehealth
- Simulation, game mechanics and virtual worlds in nursing education
- Translational research
- Bioinformatics, biomedical informatics and computational biology
- Art of caring in technology laden environments
What’s New in the Fourth Edition?

• Updated chapters based on technological advancements and changes to the healthcare arena including reimbursement mechanisms for services
• Improved flow by combining and rearranging content
• Revised the patient safety chapter to emphasize patient engagement and connected health
• Added more illustrations
• Mapped content to informatics competencies in faculty handbook
• Included an overview of the history of nursing informatics and the NI pioneers
What’s New, cont.

Expanded discussions of:

• Cloud computing
• Security: hacking, spam, password creation
• DIKW paradigm
• NI Roles
• The quest for a standardized terminology to capture and codify the work of nursing

• Interoperability
• Aggregating patient and organizational data
• Changing reimbursement systems (beyond meaningful use)
• Accountable care organizations and learning healthcare systems
Ancillary Materials

- Comprehensive instructor manual
  - Presentation slides
  - Learning activities
  - Internet based video suggestions
  - Test banks (30 Q per chapter, mid-term and final)
- Competency based self-assessments
- Mapping the content to the current NI standards
- Cross Map of 3rd Ed TOC and 4th Ed TOC
How We Use the Text

Dee – used in undergraduate and graduate courses

• Basic building blocks and introduction to NI
• DIKW Pathway
• NI integration in all areas of nursing
• Level 1 through Level 4 NI competencies
  – Assessing your own level and how to enhance competence

Kathy – uses in 4 different courses

• Introduction to Informatics—overview of NI
• Ethical challenges—managing private information
• Advanced concepts—NI roles, data mining, bioinformatics, SDLC, organization knowledge management
• Comprehensive graduate level health informatics course
Students Love it!

- Easy to read and follow
- Organized
- New terms are fully defined
- Exposes them to new content and concepts
- Appreciate the transformative effects of technology in HC
Why Faculty Love it

• Provides the building blocks of NI
• Thought provoking questions
• They can use it undergrad and grad courses
• Integrating the Foundation of Knowledge model into critical thinking and clinical judgement skills
What Reviewers Said

• The text looks at informatics from a variety of perspectives.
• Overall, the textbook has a wealth of information presented and covers the content of nursing informatics from the historical perspective to present day extremely well.
• In my opinion the strengths are the engaging content, easy to read, and not a dry read.
• It provides the necessary content for students to gain a nursing informatics foundation and want to know more.
• The strengths are the clarity in which the author presents the material for the learner.
Reviews, cont.

• It is a thorough treatment of the subject combining the political underpinnings with knowledge foundations and practice considerations. It envisions and supports the role of nurses as change agents in Health Information Technology.

• This textbook is the most comprehensive presentation of the field of informatics that I could find. It covers all aspects of the field for those who know nothing about informatics before reading this textbook.

• This is like the bible to introduction of nursing informatics.

• The book is excellent. It is well organized, uses a variety of interactive strategies, was well-researched and includes many sources of evidence that support and/or bolster points of view.
This Text is Different

• We help students and nurses understand the basics as well as advanced concepts within the NI specialty

• We teach informatics on a regular basis, so we have developed a text that addresses the needs of our students

• We provide comprehensive instructor materials and specific suggestions for active learning assignments including 3 high-level PEDA demonstration assignments

• We emphasize nursing informatics competencies
Different from Other Texts

• Comprehensive and specific to NI
• Provides the building blocks of NI for foundational knowledge
• Prepares nurses and nursing students to integrate NI into their practice areas
• Examines the NI specialty and roles
• Helps nurses recognize what NI brings to the inter-professional table
• Covers all applications of informatics—practice, education, research
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