

Nursing Informatics for the Advanced Practice Nurse: Patient Safety, Quality, Outcomes, and Interprofessionalism

By Susan McBride PhD RN-BC CPHIMS, Mari Tietze PhD RN-BC FHIMSS

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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

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Editorial Review

About the Author
Susan McBride, PhD, RN-BC, CPHIMS, FAAN,

is a clinical nursing informaticist at the Texas Tech University Health Sciences Center. As a professor at Texas Tech, she teaches DNP courses, including statistics, informatics, epidemiology, and population health at the organizational and public policy level. She is also the director of the master's and postmaster's nursing informatics programs. Dr. McBride's clinical expertise also includes perioperative and cardiovascular nursing, with a research focus on methods development for implementing, evaluating, and utilizing large health care datasets and health information technology (HIT) to improve patient safety and quality within the health care delivery system. She has developed and deployed software and services with executive oversight in the for-profit and not-for-profit arenas. Most recently, she supported operational activity and administrative oversight of the West Texas Health Information Technology Regional Extension Center (WTxHITREC) under the F. Marie Hall Institute for Rural and Community Health in a senior leadership role. Her focused activities include advising practices and hospitals on workflow redesign, clinical decision support, strategies to assist providers in meeting meaningful use of electronic health records (EHRs), quality measures, and analytics using certified EHR technology. Her current research involves an EHR-enhanced simulation program to develop best-practice competencies in the use of EHRs for interprofessional teams and evaluation of the use of social media initiatives in improving population health.

Mari Tietze, PhD, RN-BC, FHIMSS,

is an associate professor at Texas Woman's University College of Nursing, where she teaches nursing research and informatics. She also supports the statistics component of capstone projects. Previously, she worked as senior manager, Center for Research and Innovation, VHA Inc., in Irving, Texas. She also served as director of nursing research and informatics in the Dallas–Fort Worth Hospital Council's Education and Research Foundation. In that role, Dr. Tietze was responsible for deployment of the Council's 3-year technology implementation project on behalf of the Small Community, Rural Hospitals Research Grant, a National Institutes of Health grant funded by the Agency for Healthcare Research and Quality. She was a key member on a team that was awarded an $8.4 million grant for a Regional Extension Center in North Texas. Dr. Tietze directed workforce center nursing research and data initiative informatics projects, and is board certified by the American Nurses Credentialing Center in informatics nursing. She is fellow of the Healthcare Information and Management Systems Society (FHIMSS) certified by the Health Information Management Systems Society. Since 2010, Dr. Tietze has been an associate professor at the Houston J. and Florence A. Doswell College of Nursing at Texas Woman's University. In 2014, she became the program director of the graduate certificate program in interprofessional informatics at Texas Woman's University.

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