

Martha Kimpton Badger, PhD RN NI-BC

Doctorate and Master's Degrees in Nursing Informatics
Healthcare Informatics Professional and Adjunct Professor

Professional Experience

University of Texas at Tyler, (Remote from Milwaukee, WI) January 2021 – Present

Adjunct Faculty, Braithwaite College of Nursing and Health Sciences
Master of Science in Nursing Informatics, Quality, and Safety

- **Courses Taught:**
 - NURS 5385 - Information Systems Life Cycle
 - NURS 5387 - Data Analysis & Healthcare Technology

Milwaukee County Department of Health and Human Services, Milwaukee, WI 2017-2024

Chief Healthcare Informatics Officer, Department of Health and Human Services 2022 - 2024

Director of Clinical Informatics, Behavioral Health Services 2017 - 2022

- **BHD IT & Informatics Team:** Manage a 12-member team responsible for optimizing and maintaining the clinical and fiscal modules of Netsmart's myAvatar, the electronic health record (EHR). Team members include an IT manager, system administrators, end user support specialists, report developers, business analysts, project managers, and vendor employees.
- **Department of Health and Human Services:** Collaborate with DHHS executives and strategic planners regarding software solutions and training for business needs, using the software System Development Life Cycle model [Planning, Requirements Analysis, Design, Implementation and Training, Maintenance].
- **Research and Evaluation:** Participate in various DHHS-wide data analytics and research projects regarding patient safety and quality improvement.

Purdue Global, (Remote from Milwaukee, WI) January 2024 – June 2025

Adjunct Faculty, School Health Sciences
Master of Health Informatics Program

- **Course Taught:**
 - HI510 - Health Information Applications and Systems

University of Phoenix, (Remote from Milwaukee) April 2024 – October 2024

Adjunct Faculty, School of Nursing
Doctor of Nursing Practice (DNP) Program

- **Course Taught:**
 - DNP/701 – Biostatistics and Epidemiology

Aurora Health Care, Milwaukee, WI

2014-2017

Operations Informatics Department

Clinical Operations Informatics Analyst, Senior (2015-2017)

Access Big Data and conduct data analytics for the following projects:

- **Population Health for Aurora Diversity and Inclusion Initiative:** Examine system-wide electronic health record and billing data to identify groups of inpatients at risk for prolonged length of hospital stay and outpatients at risk for complications from uncontrolled hypertension.
- **Process Improvement and Training for Aurora Anticoagulation Clinic Project:** Participate in multidisciplinary effort to optimize use of and confirm the value of Aurora Anticoagulation Outpatient Clinics for patients with atrial fibrillation who are prescribed Warfarin.
- **Quality Assurance and Training for Aurora Modified Early Warning System (MEWS):** Collaborate with multidisciplinary healthcare team to examine the predictive ability of nursing documentation of inpatient assessments 24-48 hours prior to occurrence of an adverse event.

Center for Nursing Research and Practice

Nursing Informatics Research Scientist for PhD Fellowship (2014-2015)

- **Knowledge-Based Nursing (KBN) Research Team Member:** Participated in research study that assessed the impact of electronic KBN content and decision support in the Epic electronic health record (EHR) on nurse-sensitive patient outcomes.
- **Clairvia® Optimization and Training Team Member:** Participated in multidisciplinary team to examine the effectiveness of Cerner's Clairvia® CVM™ Outcomes-Driven Patient Acuity software program for measuring patient acuity and guiding inpatient unit nurse staffing.

Partners HealthCare, Boston, MA

2008-2014

Neighborhood Health Plan's Clinical Integration and Informatics Department

Clinical Informatics Specialist

Participated in the following projects:

- **Software System Development and Training Life Cycle**
 - TriZetto Clinical CareAdvance® (CCA) for telephonic care managers
 - McKesson InterQual CareEnhance® Review Manager (CERME) for utilization managers
- **Quality Assurance Initiatives**
 - Massachusetts Executive Office of Health and Human Services (EOHHS) Health Needs Assessment redesign
 - Centers for Medicare and Medicaid Services (CMS) Dual Eligibles (i.e. Medicaid and Medicare) standardized care plan development
 - ICD-10 conversion readiness
 - National Committee for Quality Assurance (NCQA) and Healthcare Effectiveness Data Information Set (HEDIS) compliance
- **Leadership**
 - Data Governance Committee – Clinical Integration and Informatics representative
 - Diversity Committee member and co-chair

Education

Doctor of Philosophy (PhD)

Graduated May 2017

University of Wisconsin-Milwaukee College of Nursing

Specialization: Nursing Informatics

Phi Kappa Phi and Sigma Theta Tau International Honor Societies

Master of Science in Nursing (MSN)

Graduated April 2013

Walden University, Baltimore, Maryland

Specialization: Nursing Informatics

Sigma Theta Tau International Honor Society

Bachelor of Science of Nursing (BSN)

Graduated December 2001

University of Massachusetts-Boston College of Nursing

Sigma Theta Tau International Honor Society

Selected Publications

von Gerich, H., Alhuwail, D., **Badger, M.K.**, Block, L.J., Eler, G.J., Georgsson, M., Lee, J., Lokmic-Tomkins, Z., Lozada-Perezmitre, E., Pruinelli, L., Ronquillo, C., Shishido, H.J., Sommer, J., Song, J., Topaz, M., & Peltonen, L.M. (2024). Future needs in nursing informatics - Preliminary findings from the Global Nursing Informatics Survey. *Studies in Health Technology and Information*, 315, 337-341.

Peltonen, L.-M., Pruinelli, L., Ronquillo, C., Nibber, R., Peresmitre, E. L., Block, L., Deforest, H., Lewis, A., Alhuwail, D., Ali, S., **Badger, M. K.**, Eler, G. J., Georgsson, M., Islam, T., Jeon, E., Jung, H., Kuo, C. H., Sarmiento, R. F. R., Sommer, J. A., Tayaben, J., & Topaz, M. (2019). The current state of Nursing Informatics – An international cross-sectional survey. *Finnish Journal of EHealth and EWelfare*, 11(3), 220-231. <https://doi.org/10.23996/fjhw.77584>

Badger, M.K. (2017). Patient acuity as a predictor of length of hospital stay and discharge disposition after open colorectal surgery (Doctoral dissertation). Milwaukee, WI: University of Wisconsin-Milwaukee.

Peltonen, L. M., AlHuwait, D., Ali, S., **Badger, M. K.**, Eler, G. J., Georgsson, M., Islam, T., Jeon, E., Jung, H., Kuo, C.-H., Lewis, A., Pruinelli, L., Ronquillo, C. E., Sarmiento, R. F., Sommer, J., Tabayen, J. and Topaz, M. (2016) Current trends in nursing informatics: Results of an international survey. In: Sermeus, W., Procter, P. M. and Weber, P., eds. (2016) *Nursing Informatics 2016*. (225) IOS Press, pp. 938-939. ISBN 9781614996576. doi: 10.3233/978-1-61499-658-3-938

Coenen, A., Bartz, C.B., & **Badger, M.K.** (2015). Global eHealth and Informatics. In V. Saba & K. McCormick (Eds.), *Essentials of nursing informatics* (6th ed.)(pp. 727-738). New York, NY: McGraw-Hill Education.

Licenses and Certifications

Wisconsin Registered Nurse License

- Wisconsin is a Nurse Licensure Compact (NLC) State

American Nurses Credentialing Center

- Board Certification in Informatics Nursing (NI-BC)