

IMIA Evidence- based Practice Workshop - *Getting Nursing Informatics Evidence into Practice*

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Abstract. Evidence based nursing informatics is crucial in the development and implementation of digital health solutions and continuous development of evidence based practice in Nursing. The global aim of the IMIA Nursing Informatics Working Groups' Evidence Based Practice Working Group is to share evidence based and best practice nursing informatics. This is accomplished through international contributions and collaborations from nursing and health informaticians globally and housing the knowledge within the Nursing Knowledge Big Data (NKBD) eRepository. This workshop will do a demonstration of the eRepository and aims to establish global participation in its use and contributions to the knowledge eRepository.

Keywords. EBP, evidence-based practice, nursing informatics, nursing knowledge, eRepository

1. Introduction

Evidence-based practice according to David Sackett is “the conscientious, explicit and judicious use of current best evidence in making decisions about the care of the individual patient”[1]. This approach of integrating individual clinical expertise with the best available external clinical evidence from systematic research is also proposed by Melnyk and Fineout-Overholt. [2]. The Institute of Medicine Health Profession Education (2003) recommended the use of informatics for the management of knowledge and to support clinical decision making to expand evidence-based practice in health care [3]. One way to translate knowledge or evidence into practice, is the development of clinical practice guidelines, by synthesizing research in a form that allows easy translation and action at the point of care [4].

Evidence-based health informatics is crucial in the development and implementation of IT systems and digital solutions in health care [5]. This applies also to nursing

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informatics. According to a recent study [6] different level nursing professionals support the importance of the nursing informatics discipline and improving the transfer of evidence into practice, to support practice. One nursing informatics challenge is how to ensure that nursing knowledge and evidence-based practice are integrated into the design and use of digital health solutions, provide the data for continuous improvement and the ongoing development of nursing knowledge globally[7,8].

2. Rationale Outcome

The mission of IMIA SIGNI Evidence Based Practice Working Group (WG) is to share evidence-based best practices and contributions in Nursing Informatics with the multidisciplinary health informatics community. We envision the access to best practices in nursing informatics including nursing documentation, terminology standards, information models, workflows, analytics and tools. The Evidence Based Practice Working Group will utilize the eRepository created by the LinkedIn Big Data Nursing Knowledge database group. This repository will be a conduit for housing, sharing and disseminating nursing work products to facilitate nursing practices and amplify nursing informatics products and practices.

The expected outcome of the workshop is that participants will be able to:

- Understand the importance of evidence-based best practices in NI and its value to nursing
- Identify and action opportunities for sharing evidence-based nursing informatics practice globally including addressing the challenges of sharing evidence-based practice
- Provide recommendations for the knowledge constructs and management of the nursing informatics evidence-based practice eRepository to support global collaboration and knowledge sharing.

The workshop duration is 180 minutes. Using World Café principles [9] the workshop includes:

- Three presentations (40 min total), setting the context for the workshop including the objectives of the evidence based working group, evidence based nursing practice, nursing informatics evidence based practice contribution to nursing knowledge and a demonstration of the NKBD eRepository .
- Small group discussions (groups of no more than 10 people per table) to discuss specific questions regarding evidence based practice in nursing informatics and sharing knowledge, for 20 mins each (total 100 mins) and then participants change and move to another table. Discussion topics to include:
 - Identify evidence and best practice-based examples to be shared
 - Identify and provide recommendations for challenges in sharing best practices in nursing informatics with an action plan
 - Provide recommendations for the knowledge constructs and knowledge management in the eRepository from a global perspective
- Feedback and Summary of results of the group discussions (40 mins)

3. Workshop presenters

Presenter 1 (MBA, RN, Robyn, Cook, Co-Chair Evidence Based Practice Working Group IMIA SIGNI Director Epsilon Informatics, Australia and United Kingdom)
Robyn has over 25 years as a Nurse and Health Informatician (CHIA certification) with extensive experience implementing electronic health record in a range of settings.

Presenter 2 (PhD, RN, Adjunct Professor, Ulla-Mari, Kinnunen, Senior Lecturer, Group member of Evidence Based Practice Working Group IMIA SIGNI, University of Eastern Finland) Her experience is in terminology development, evidence based practice (EBP), and informatics competencies. She is a core staff member of the Finnish Centre for Evidence-Based Health Care: A Joanna Briggs Institute Affiliated Group and a member of the Centre's review panel, and accredited trainer of JBI Comprehensive systematic review training program. She is a chair of the Finnish terminology expert group, a member of IMIA, Nursing Informatics Special Interest Group, and Tiger VLE group member.

Presenter 3 (PhD, RN, MSPH, FAAN, Charlotte A Weaver, Steering Committee member of the Nursing Knowledge and Big Data Science Initiative. As co-founder of the Nursing Knowledge eRepository, she has lead the conceptualization and launching of the eRepository as a component of the work being done by the Nursing Knowledge and Big Data initiative since 2014. Co-Chair Evidence Based Practice Working Group IMIA SIGNI.

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