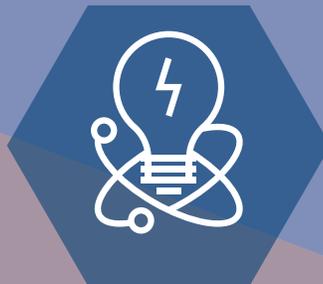THE RITA KOBB NURSING & HEALTH INFORMATICS NATIONAL SYMPOSIUM

Innovations and Data-Powered Health:
PRECISION NURSING AT THE POINT OF CARE

UF | College of Nursing
UNIVERSITY *of* FLORIDA

FEBRUARY 19, 2021 | VIRTUAL

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THE RITA KOBB NURSING & HEALTH INFORMATICS NATIONAL SYMPOSIUM
is a bi-yearly lectureship series that explores topics in nursing informatics. This series was created by a gift made in honor of Rita Kobb, a UF nursing alumna and nursing informatics expert by her sister and brother-in-law, Mrs. Patti and Mr. Bill Alcorn.

PROGRAM OUTCOMES

After attending the 2021 Rita Kobb Nursing & Health Informatics National Symposium, participants will be able to:

- Define nursing and health informatics
- Recall key concepts of nursing and health informatics and how these can improve patient care
- Summarize the current trends involving nursing informatics and health informatics, including:
    - Artificial Intelligence Applications in Nursing and Health Care
    - Informatics Support for Clinical and Evidence-Based Practice
    - Informatics Support for Patients, Consumers and Families
- Differentiate the state-of-the-art informatics approaches, theories and methods relevant to clinical and translational science
- Identify the strengths and weaknesses of applications that support clinical and translational research focused on nursing and health informatics innovations
- Interact with professionals engaged in clinical and translational science including clinical and translational investigators, data scientists, genomics researchers, clinical- and bio-informaticians, public health informaticians, and those involved with clinical and research IT policy and regulatory issues

Office of Professional Nursing Development- University of Florida is approved with distinction as a provider of nursing continuing professional development by Montana Nurses Association, an accredited approver with distinction by the American Nurses Credentialing Center's Commission on Accreditation.

Attendees must sign-in within the first five minutes of each session you attend. Attendees participating in activities will earn five contact hours upon completion of an evaluation tool. We cannot provide CE credit to those nurses who dial into the symposium. Access to CE credit will close six minutes after each session begins. Upon the conclusion of the conference, access to the evaluation link will be provided for an evaluation of the symposium. Your feedback is requested and it is an anonymous evaluation. It will also be provided as a link at the end of the conference in the webinar's chatbox.

8:45-9 a.m. | WELCOME REMARKS

9-10 a.m. | KEYNOTE

TITLE: From Precision Health to Healthy AI: The role of the National Library of Medicine in 21st Century Care
SPEAKER: **Patricia Flatley Brennan, RN, PhD**, Director, National Library of Medicine (NLM)

PURPOSE: To reaffirm the commitment of the National Library of Medicine as a partner in providing personalized patient care and accelerating the discovery of nursing knowledge.

LEARNING OBJECTIVES:
1. Characterize the unique contributions of nursing to precision health
2. Critically appraise the NLM's support for precision health
   a. Information delivery
   b. Access to research data
   c. Conduct and disseminate research in computational health and computational biology
   d. Workforce preparation
3. Develop responses to the challenges engendered by informatics solutions in support of personalized patient care and the accelerating knowledge discovery in nursing

10-11 A.M. | SESSION 1: GLOBAL PERSPECTIVES ON DATA-POWERED NURSING

GAP: Nursing informatics is a rapidly growing discipline and of growing importance as health care and health promotion around the world increasingly relies on data and technology. Therefore, it is important to share evidence and collaborate on a global scale to advance the discipline. Currently, vast differences exist in the advancement of nursing informatics across different countries. There is a need for expanded opportunities for global dissemination and collaboration, as well as efforts to develop a global nursing informatics community. In this session, experts from three continents will share their most current research, and their sessions will be followed by a discussion facilitated around global perspectives and challenges in nursing informatics.

PRESENTATIONS

TITLE: Introduction to Public Health Care Big Data in Korea and United States.
SPEAKER: **Jungmin Park, PhD, MPH, RN**, Assistant Professor School of Nursing & Graduate School of Clinical Nursing, Hanyang University, Seoul, South Korea.

PURPOSE: To introduce public health care big data for researchers and the current health care platform service in Korea.

LEARNING OBJECTIVES:
1. Highlight how we can use public health care big data in Korea and the U.S.
2. Outline the current health care platform service in Korea.
3. Describe the barriers of using public health care big data and the health care platform service in Korea.

SESSION 1 CONTINUED

TITLE: Advances in Nursing Informatics: A U.K. perspective
SPEAKER: Dawn Dowding PhD, RN, FAAN, Professor in Clinical Decision Making, Division of Nursing, Midwifery and Social Work, University of Manchester, Manchester, UK.

PURPOSE: To provide an overview of current initiatives in the UK focused on developing a nursing informatics practice, education, and research community.

LEARNING OBJECTIVES:
1. Describe the current initiatives in the UK to promote nursing informatics as a career for clinical nurses.
2. Outline the strategic approaches in place in the UK to develop the infrastructure for technology-enabled nursing practice.
3. Describe the current research initiatives being undertaken in the UK in the field of nursing informatics.

TITLE: Perspectives on Data-Powered Nursing in Brazil
SPEAKER: Rodrigo Jensen, PhD, MSN, RN, Assistant Professor, Botucatu Medical School, Sao Paulo State University (UNESP), Sao Paulo, Brazil.

PURPOSE: Reflect on the current scenario of health and nursing informatics in Brazil. Critically analyze the main electronic nursing documentation systems used in Brazilian health services. Reflect on the current scenario of nursing informatics education in Brazil.

LEARNING OBJECTIVES:
1. Outline the current state of electronic nursing documentation in Brazilian health services and how it is structured.
2. Identify initiatives and current research focused on the analysis of nursing data extracted from electronic nursing documentation systems used in Brazil.
3. Describe the education of nursing informatics that has taken place in Brazil.

11 A.M. TO NOON | SESSION 2: DIGITAL CARE DELIVERY AND CLINICAL TRANSLATION

GAP: Challenges remain in the clinical translation of nursing and health informatics into practice and the community. In this session, we will highlight recent findings and advances in reaching vulnerable populations through mHealth and telehealth, as well as the development and testing of tailored clinical decision-support.

SESSION 2 CONTINUED

PRESENTATIONS

TITLE: Translating a group-based in-person intervention onto a mobile platform and testing in a group of high-risk youth.
SPEAKER: Rebecca Schnall, PhD, MPH, RN-BC, FAAN, Mary Dickey Lindsay Professor of Disease Prevention and Health Promotion, School of Nursing, Columbia University, New York, NY.

PURPOSE: To describe the process for adapting a group based in person behavioral health intervention into a mobile health intervention and describe the process for ensuring its usability.

LEARNING OBJECTIVES:
1. Discuss the process for adapting a group-based in-person intervention onto a mobile platform.
2. Describe the usability methods employed to ensure the intervention meets the end-users needs.
3. Explain the process for assessing the efficacy of this intervention in a multi-site trial.

TITLE: Innovative Preclinical Testing Methods for Building Useful and Generalizeable Nursing Clinical Decision Support Systems
SPEAKERS: Karen Dunn-Lopez, PhD, MPH, RN, Associate Professor, College of Nursing, University of Iowa, Iowa City, IA.

PURPOSE: To introduce a viable new strategy for testing clinical decision support systems virtually with representative samples of nurses.

LEARNING OBJECTIVES:
1. Identify a viable method for evaluating an RN CDS electronic system virtually across the country.
2. Explain a strategy for pre-testing a newly developed software virtual intervention.
3. Describe how the national state board of nursing rosters can be used to recruit a representative national sample of RNs.

TITLE: Office of Connected Care Quality Management
SPEAKERS: Padraic M. McVeigh and **Sarah S. Sazama**, Office of Patient Care Services/Connected Care, Veterans Health Administration

PURPOSE: The purpose of this presentation is to show how the Office of Connected Care Quality Management team uses innovative data-driven practices to improve the quality of care for veterans and enables Connected Care to implement performance improvement measures.

LEARNING OBJECTIVES:
1. Describe veteran care quality management in the Office of Connected Care.
2. Discuss real-life use of data via the Conditions of Participation and Virtual Care Scorecard.
3. Summarize how data is directly used to improve veteran care.

NOON TO 1 P.M. | LUNCH AND VIRTUAL POSTER SESSION WITH TWITTER DISCUSSION (NO CEUS)

1–3 P.M. | SESSION 3: PRECISION NURSING AND HEALTH

GAP: In recent years, advances in data science, computing, and biomarker research have given rise to the promise of precision health, a personalized approach to health care where health promotion and care are tailored to each person based on their unique genetic or genomic composition and the cultural, social, and economic context they live in. However, substantial gaps remain, including a need for the development and validation of robust and interpretable data science approaches and a lack of patient engagement and shared decision-making related to precision health. In addition, numerous ethical issues have emerged as inherent in precision health approaches, such as privacy and data security issues, and concerns about the propagation of racial, ethnic, and socioeconomic health disparities.

PRESENTATIONS

TITLE: Harnessing the power of nursing data for better clinical decision support
SPEAKER: Maxim Topaz, PhD, RN, Elizabeth Standish Gill Associate Professor of Nursing, School of Nursing, Columbia University, New York, NY.

PURPOSE: To provide an overview of natural language processing and its application for precision nursing and clinical decision support.

LEARNING OBJECTIVES:
1. Define natural language processing and its applications in nursing.
2. Describe clinical decision support and its applications in nursing.
3. Articulate how nursing data can be harnessed to create clinical decision support tools.

TITLE: Developing a precision nursing mobile app for post-acute care
SPEAKER: Blaine Reeder, PhD, Associate Professor, Sinclair School of Nursing, University of Missouri, Columbia, MO.

PURPOSE: To describe the development of a mobile app to support precision nursing and evidence-based practice in post-acute care.

Learning objectives:
1. Describe the potential for new apps and systems to support evidence-based practice and communication in post-acute care.
2. Describe aspects of the emerging concept of precision nursing.
3. Identify the relationship of precision nursing to precision health.

SESSION 3 CONTINUED

TITLE: ACTIVATE: A precision approach to digital health for underserved communities in response to COVID-19
SPEAKER: Katherine Kim, PhD, MPH, MBA, Associate Professor, Betty Irene Moore School of Nursing, UC Davis, Davis, CA

PURPOSE: To share a model for delivering precision chronic illness care using digital health technologies to underserved patients via community health centers.

LEARNING OBJECTIVES:
1. Relate key concepts in delivering precision chronic illness care.
2. Describe the relevance of remote patient monitoring, digital readiness, and health literacy to precision care delivery.
3. Discuss how rural and underserved communities are leveraging digital health to deliver precision nursing care and care coordination.

TITLE: Moving beyond RACE in Precision Nursing Research
SPEAKERS: Staja Booker, PhD, RN, Assistant Professor, **Keesha Roach, PhD, RN**, Assistant Professor, and
Jennifer Dungan, PhD, MSN, Associate Professor, College of Nursing, University of Florida, Gainesville, FL.

PURPOSE: To provide a historical overview and state-of-the-science review of pain biomarker research from the perspective of social determinants of health. To discuss strategies to mitigate racism and health inequities in symptom science research.

LEARNING OBJECTIVES:
1. Recognize historical perspectives for biological views of pain health disparities.
2. Using nursing research exemplars in pain, characterize biomarkers associated with health disparities.
3. Discuss pervasive ways precision biomarker research may exacerbate pain health disparities, as well as ways to address health disparities with biomarkers that are just, equitable and responsible.

SYMPOSIUM KEYNOTE SPEAKER

Patricia Flatley Brennan, RN, PhD, is the Director of the National Library of Medicine (NLM) at the National Institutes of Health (NIH), where she oversees the world's largest biomedical library. Since becoming director in August 2016, she has positioned the Library to be the hub for biomedical data science at NIH and across the biomedical research enterprise globally. She spearheaded the development of a new strategic plan that refocuses and enhances NLM's research, development, training and information systems. By leveraging NLM's heavily used data and information resources and programs, Dr. Brennan is strengthening and advancing NLM's data infrastructure to accelerate data-driven discovery and health, engage new users in new ways, and develop the workforce for a data-driven future.

Dr. Brennan is a pioneer in the development of innovative information systems and services, and her professional accomplishments reflect her background, which unites engineering, information technology, and clinical care to improve the public health and ensure the best possible experience in patient care. Dr. Brennan holds an appointment as associate investigator in the National Institute of Nursing Research Division of Intramural Research, where she directs the Advanced Visualization Laboratory.

Prior to joining NIH, she was the Lillian L. Moehlman Bascom Professor in the School of Nursing and College of Engineering at the University of Wisconsin–Madison and also led the Living Environments Laboratory (now the Virtual Environments Group) at the Wisconsin Institute for Discovery.

A past president of the American Medical Informatics Association, Dr. Brennan was elected to the National Academy of Medicine in 2001. She is a fellow of the American Academy of Nursing, the American College of Medical Informatics, and the New York Academy of Medicine.

In 2020, Dr. Brennan was inducted into the American Institute for Medical and Biological Engineering (AIMBE). The AIMBE College of Fellows is among the highest professional distinctions accorded to a medical and biological engineer.

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Mr. and Mrs. Alcorn's gift established the Rita Kobb Nursing & Health Informatics National Symposium, and they also have been generous supporters of the College of Nursing and Archer Family Health Care. Mrs. Alcorn's sister is Rita Kobb, a loyal alumna of the College of Nursing and nursing informatics expert. Mr. and Mrs. Alcorn have continued to financially support the Kobb Symposium.

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