Emerging Professional's View of the Landscape: Nursing Informatics Curriculum, **Competencies, and Career Opportunities**

Adrienne LEWIS^a, Lorraine BLOCK^b, Laura PELTONEN^c, Lisiane PRUINELLI^d, Maxim TOPAZ^e, Erika LOZADA PEREZMITRE^f

^a School of Nursing, School of Health Information Science, University of Victoria, British Columbia, Canada,

^b School of Nursing, University of British Columbia, Vancouver, Canada

^c Department of Nursing Science, University of Turku, Turku, Finland

^d University of Minnesota, Minnesota, United States of America

^e University of Haifa, Haifa, Israel

f Universidad Popular Autónoma del Estado de Puebla

Abstract

The curriculum associated with nursing informatics (NI) education is not standardized, therefore the perspectives of new and emerging nurse informaticians is important. How these curricula differences affect career opportunities of new nursing informaticians, and in turn influenced current career choices will be explored. Synthesizing opinions with themes extracted from a 2014 international study-Advancing nursing informatics in the next decade: Recommendations from an international survey will be summarized.

Description

Globally, the field of Nursing Informatics has seen a significant surge in interest and growth (Topaz, Ronquillo, Peltonen, Pruinelli, Sarmiento, Badger, Ali, Lewis, Georgsson, Jeon, Tayaben, Kuo, Islam, Sommer, Jung, Eler & Alhuwail, 2016). However, nursing informatics (NI) graduate requirements are not standardized, nor are all who work in this field formally educated. For this reason the experiences of those who have received formal nursing informatics education, important. Formal nursing informatics education and specifically the sharing of those courses that most influence the panelists post graduate careers can be leveraged for future curriculum development. As panelists at the NI 2018 conference in Guadalajara, Mexico members of the International Medical Informatics Association Nursing Informatics Special Interest Group (IMIA-NI) Student and Emerging Professionals (SEP) will share their academic experiences. As a diverse and international panel, each panel participant will describe the framework of their academic journey, highlighting the regional differences in nursing informatics education. Further, members on this panel will share the application of their newly acquired NI knowledge, and competencies, that most influence their current roles

By extracting related themes, the panel participants will reflect and recommend how those themes can form recommendations for advancing nursing informatics education content. Finally, panel participants will synthesize their experiences to see if there is convergence with the overall and discrete results of the Advancing nursing informatics in the next decade:

recommendations from an international survey, conducted in 2014

Panel moderator:

Lorraine Block, RN, MSN, CWOCN, is a PhD student with the School of Nursing at the University of British Columbia, Canada. Her academic interests include the representation of nursing care in electronic documentation systems, as well as, the use of mobile technologies in the homecare setting. Lori is the current Secretary Chair of the International Medical Informatics Association Nursing Informatics (IMIA-NI) Student and Emerging Professionals (SEP) Working Group and member of the Canadian Nurses Informatics Association. She also works in a large health authority, based in Vancouver, Canada, as a clinical lead for an electronic wound documentation system.

Panelists:

Adrienne Lewis, RN, BsN, MNSc, MS, recently received her Masters of Science in Health Informatics, and Masters of Science in Nursing, in 2017. Adrienne's recently completed a Double Master's Degree program; the first dual faculty program of its kind in North America, at the University of Victoria, British Columbia, Canada. Currently, the communications lead for of the International Medical Informatics Association Nursing Informatics (IMIA-NI) Student and Emerging Professionals (SEP) Working Group. At this time she is the project lead for the First Nations Meditech Access Program a tripartite initiative that enables nurse's working in First Nations communities access to regional health information systems.

Laura-Maria Peltonen, RN, MNSc, is a doctoral candidate at the Department of Nursing Science, University of Turku in Finland. She has a decade of clinical nursing experience, most of which is from the critical care setting. She is the Finnish national representative and the secretary for the European Federation for Medical Informatics (EFMI) Working Group 5: Nursing Informatics in Europe. She is the current Chair of the International Medical Informatics Association Nursing Informatics (IMIA-NI) Student and Emerging Professionals (SEP) Working Group and currently teaches information Management and Health Technology to Master's students in

Nursing Science at the University of Turku in Finland. She is a member of the IKITIK consortium, which is a research consortium aiming to support the producing of and usage of health information by developing innovative, intelligent, stateof-the-art clinical information and language technology solutions.

Maxim Topaz PhD, MA, RN, is a Senior Lecturer at the University of Haifa, Israel. He is passionate about using data science and artificial intelligence to improve human health. His particular focus is on clinical decision support, standardized health terminologies, and data and text mining. In the past, Dr. Topaz was involved with health policy (national and international levels), leadership (e.g. Chair of the Students Working Group with International Medical Informatics Association) and health entrepreneurship. Dr. Topaz also has clinical experience in internal and urgent medicine. He received his Masters and Baccalaureate degrees from the University of Haifa, PhD from the University of Philadelphia. He completed a postdoctoral fellowship at the Harvard Medical School and Brigham Women's Hospital.

Lisiane Pruinelli, PhD, MS, RN, is an Assistant Professor at the School of Nursing, University of Minnesota. Her research program is concerned with populations with multiple complex chronic conditions, such as liver transplantation, sepsis and pain where heterogeneity plays an important role on outcomes. Dr. Pruinelli teaches Statistics and health informatics related courses, such as Health Informatics and Information Technology, Interdisciplinary Health Informatics, and Human Factors and Engineering. Dr. Pruinelli is the co-chair elect for the MNRS Health Systems, Policy and Informatics RIG. In addition, she is a Steering Committee member for the Nursing Knowledge Big Data Science Conference, a thinktank initiative, of the Planning Committee for the AMIA 2018 Clinical Informatics conference, and the Scientific Committee for the 2018 International Conference on Nursing Informatics.

Erika Lozada Perezmitre, MPH, RN, Universidad Popular Autónoma del Estado de Puebla (UPAEP) full time professor school of Nursing, Puebla, México. Erika Lozada received a Masters of Public Health from the Universidad Popular Autónoma del Estado de Puebla (UPAEP). She is a recognized professor in the community health of rural populations in Puebla. Lozada was the Pioneer using the Omaha System in Mexico under a partnership between Minnesota and Puebla. She teaches at the Nursing Masters Program at UPAEP. She has studied obstetrician violence and women's rights. She is part of the research committee at UPAEP. She has participated in national and international congresses. Erika is a young researcher with big dreams and great passion for public health, nursing and informatics.

Panel commitment to attend NI2018 conference:

All panel participants listed in this submission will attend NI2018.

References

[1] M. Topaz, C. Ronquillo, L-M. Peltonen, L. Pruinelli, R.F. Sarmiento, M.K. Badger, S. Ali, A. Lewis, M. Georgsson, E. Jeon, J.T. Tayaben, C-H. Kuo, T. Islam, J. Sommer, H. Jung, G.J. Eler, D. Alhuwail, Advancing nursing informatics in the next decade: Recommendations from an international survey, Nursing Informatics, 2016. doi:10.3233/978-1-61499-658-3-123.

Address for correspondence

Adrienne Lewis, MsN, MS, BsN, RN Alumni, University of Victoria, British Columbia, Canada. alewis@uvic.ca