
We recommend you cite the published version.
The publisher’s URL is: http://dx.doi.org/10.3233/978-1-61499-658-3-938

Refereed: Yes

(no note)

Disclaimer

UWE has obtained warranties from all depositors as to their title in the material deposited and as to their right to deposit such material.

UWE makes no representation or warranties of commercial utility, title, or fitness for a particular purpose or any other warranty, express or implied in respect of any material deposited.

UWE makes no representation that the use of the materials will not infringe any patent, copyright, trademark or other property or proprietary rights.

UWE accepts no liability for any infringement of intellectual property rights in any material deposited but will remove such material from public view pending investigation in the event of an allegation of any such infringement.

PLEASE SCROLL DOWN FOR TEXT.
Current Trends in Nursing Informatics: Results of an International Survey

Laura-Maria PELTONEN a,1, Dari ALHUWAIL b, Samira ALI c, Martha K. BADGER d, Gabrielle Jacklin ELER e, Mattias GEORGSSON f, Tasneem ISLAM g, Eunjoo JEON h, Chiu-Hsiang KUO i, Adrienne LEWIS k, Lisiane PRUINELLI l, Charlene RONQUILLO m, Raymond Francis SARMIENTO n, Janine SOMMER o, Jude L. TAYABEN p and Maxim TOPAZ q

1 University of Turku, Finland, 2 University of Maryland, USA, 3 Carlow University, USA, 4 University of Wisconsin-Milwaukee, USA, 5 Instituto Federal do Paraná, Brazil, 6 Blekinge Institute of Technology, Sweden, 7 Deakin University, Australia, 8 Seoul National University, Republic of Korea, 9 University of Washington, USA, 10 Tzu Chi University of Science and Technology, Taiwan, 11 Coldstream, Canada, 12 University of Minnesota, USA, 13 University of British Columbia, Canada, 14 U.S. Centers for Disease Control and Prevention, USA, 15 Hospital Italiano, Argentina, 16 Benguet State University, Philippines, 17 Harvard Medical School & Brigham and Women’s Hospital, USA

Abstract. Nursing informatics (NI) can help provide effective and safe healthcare. Currently, NI is a fast evolving discipline. Unfortunately, little is known about the current trends in NI research. We conducted an international survey to describe current NI research trends.

Keywords. nursing, informatics, research trends, research priorities, international survey.

1. Introduction

Nursing informatics (NI) can help provide effective and safe healthcare. Currently, NI is a fast evolving discipline. Unfortunately, little is known about the current trends in NI research. We conducted an international survey to describe current NI research trends.

2. Methods

We designed an online questionnaire based on major themes from NI literature [1-2]. The questionnaire was translated into six languages (Arabic, English, Korean, etc.).
Portuguese, Spanish and Swedish). Nurses and other allied health professionals with experience in NI from academia and practice were eligible to participate. Snowball sampling technique was used to reach as many respondents as possible internationally. Questions were broad in scope, in attempt to provide an overview of overall trends. Questions asked centered on participants’ perspectives of NI within their respective countries. Topics included perceptions of NI national policies and standards and research, satisfaction with state of health information systems development, state of resources and infrastructure, potential future trends, and efforts that should be taken to advance NI.

3. Results

A total of 402 responses were submitted from 44 countries in Asia, Africa, North and Central America, South America, Europe, and Australia. The top five reported (n=376, 93.5%) research areas were: standardized terminologies (n=151, 40.2%); mobile health (n=128, 34%); clinical decision support (n=127, 33.8%); patient safety (n=123, 32.7%); and big data research (n=103, 27.4%). Respondents reported (n=289) that the possibility to get funding for NI research in their own country was difficult. On a scale from 1 (very easy) to 10 (extremely difficult), the mean response score was 6.8 (SD 2.5). Participants felt that only little NI research is conducted in their countries (on a scale from 1-very little to 10-very much) in the area of NI theory (mean 3.6, SD 2.1, n=281) while administration (mean 4.3, SD 2.1, n=290), clinical practice (mean 4.5, SD 2.2, n=304) and education (mean 4.5, SD 2.1, n=295) received slightly higher scores.

4. Discussion

The findings provide a snapshot of current trends in NI research and can be used to direct future research efforts. Respondents reported that NI research focusing on education, clinical practice, administration, and theory was limited in their countries. Yet, current research seems to focus on education and clinical practice when compared to research on administration and theory. These findings should be interpreted with caution as the sampling technique may result in skewed results. Further research is needed to explain the impact of these trends and the needs from clinical practice.

5. Acknowledgments

We thank the IMIA-NI group leadership and NI experts for their support and feedback on the survey and all who helped us to distribute the survey.

References