



Nursing Informatics: Competency Challenges for Nursing Faculty

A scoping review

Lisa Reid

PhD Candidate

Developing a distinct body of knowledge on Nursing Informatics

Supervisors –

- Dr Didy Button
- Dr Katrina Breaden
- Mr Mark Brommeyer



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Flinders Digital
Health Research
Centre

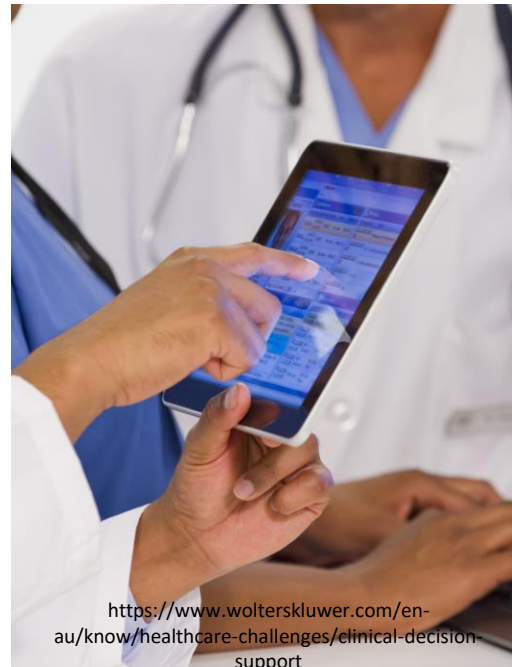


Nursing Informatics

“Nursing Informatics science and practice integrates nursing, its information and knowledge and their management with information and communication technologies to promote the health of people, families and communities worldwide”.



**International Medical
Informatics Association**



Significance of Nursing Informatics

“The guiding principle for all learning and teaching strategies related to informatics and technology in health is that being technically competent is a fundamental element of caring.”

(Australian Nursing and Midwifery Accreditation Council [ANMAC], 2014).

Study Aims and Method

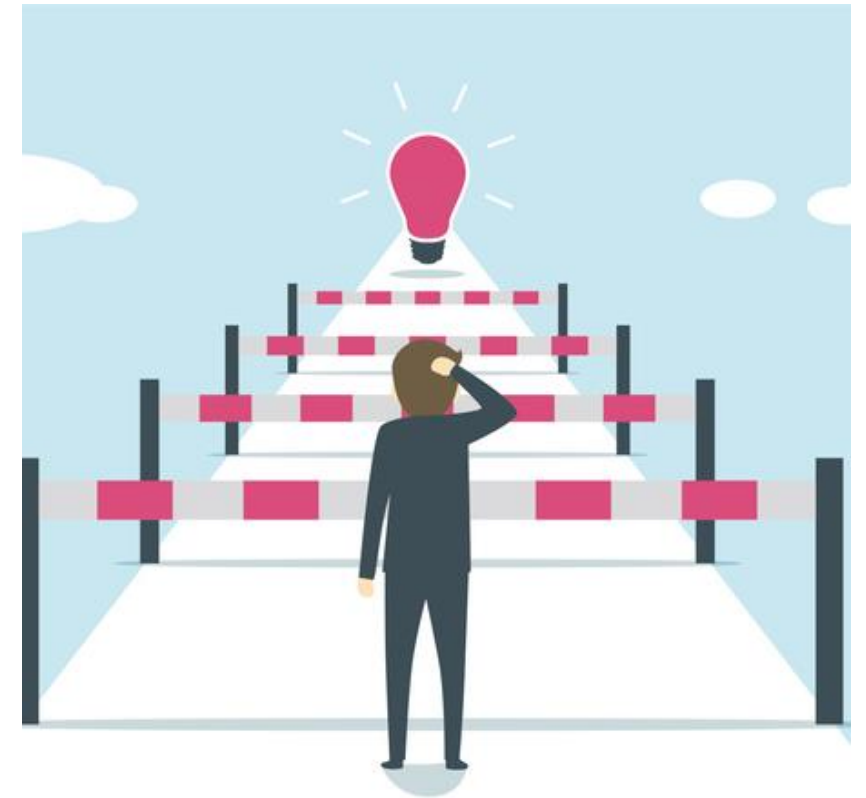


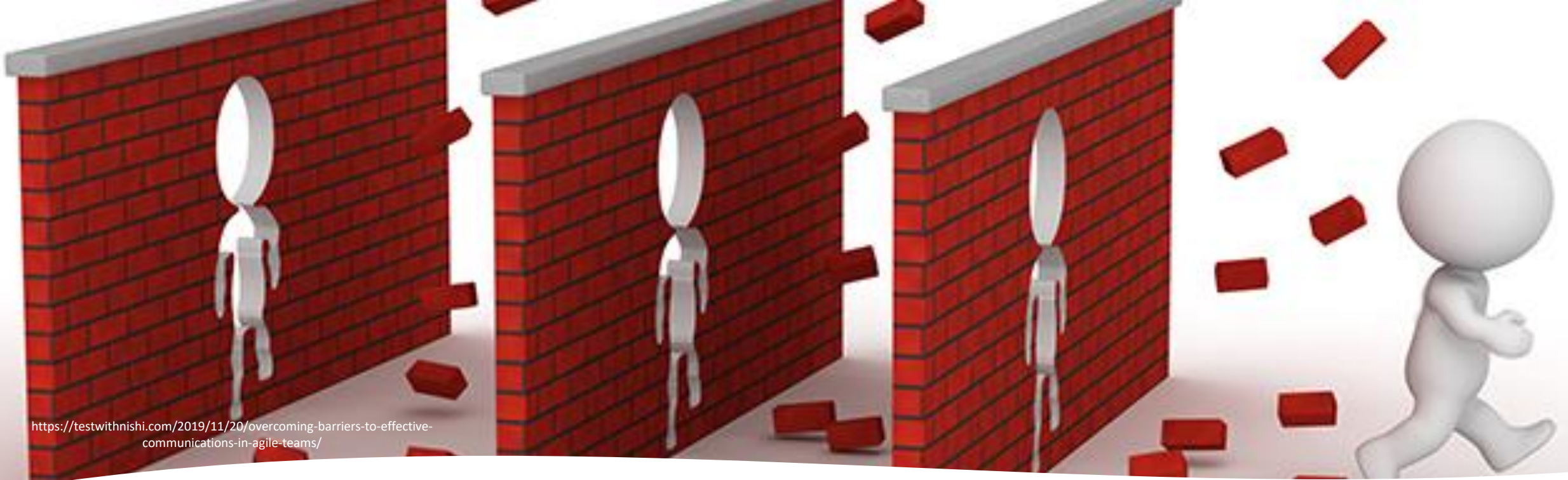
This study aimed to present an analysis of contemporary literature, describing the barriers to faculty engagement with digital health technologies in undergraduate nursing education and with recommendations for faculty development

- Scoping review
- CINAHL, Ovid, ProQuest, PubMed and Scopus
- Grey literature & bibliography sources
- Covidence screening
- Frequency counts & qualitative content analysis

Barriers to faculty knowledge, skills and attitude

- A lack of understanding of Nursing Informatics and its relevance to Nursing care
- Limited digital literacy and competency
- Limited infrastructure and expenditure in the tertiary sector
- Limited best practice recommendations and educational resources
- Rapidly evolving and changing new healthcare technologies





<https://testwithnishi.com/2019/11/20/overcoming-barriers-to-effective-communications-in-agile-teams/>

Recommendations to enhance faculty engagement

- Faculty education
- Global definitions of key digital healthcare terms
- Future-proofing education
- Evidence-based educational resources
- Open-access repositories

References

- Australian College of Nursing [ACN], Health Informatics Society of Australia [HISA], & Nursing Informatics Australia [NIA]. (2017). *Nursing Informatics Position Statement*. https://acn.edu.au/wp-content/uploads/2018/02/nursing_informatics_position_statement_28092017_hisa_acn_nia2.pdf
- Australian Nursing and Midwifery Accreditation Council [ANMAC]. (2014). *Health informatics and health technology - an explanatory note*. https://www.anmac.org.au/sites/default/files/documents/20150130_Health_Informatics_Technology_Explanatory_Note.pdf
- Friedman, C. P. (2012). What informatics is and isn't. *JAMIA*, 20(2), 224-226. <https://doi.org/10.1136/amiajnl-2012-001206>
- Gonen, A., Sharon, D., & Lev-Ari, L. (2016). Integrating Information Technology's competencies into academic nursing education—An action study. *Cogent Educ*, 3(1). <https://doi.org/10.1080/2331186X.2016.1193109>
- International Medical Informatics Association - Nursing Informatics. (2019). *IMIA Nursing Informatics (IMIA NI) Education Working Group*. IMIA. <https://sites.google.com/site/imianiedwg/>
- Peters, M. D. J., Godfrey, C., McInerney, P., Baldini Soare, C., Khalil, H., & Parker, D. (2020). *Chapter 11: Scoping reviews (2020 Version)*. In E. Aromataris. & Z. Munn (Eds.), *Joanna Briggs Institute Reviewer's Manual*. <https://doi.org/10.46658/JBIMES-20-12>
- Reid, L., Button, D., Breaden, K., & Brommeyer, M. (2022). Nursing informatics and undergraduate nursing curricula: A scoping review protocol. *Nurse Educ. Pract.*, 65. <https://doi.org/10.1016/j.nepr.2022.103476>
- Tricco, A. C., Lillie, E., Zarin, W., O'Brien, K. K., Colquhoun, H., Levac, D., Moher, D., Peters, M. D. J., Horsley, T., Weeks, L., Hempel, S., Akl, E. A., Chang, C., McGowan, J., Stewart, L., Hartling, L., Aldcroft, A., Wilson, M. G., Garritty, C.,...Straus, S. E. (2018). PRISMA Extension for Scoping Reviews (PRISMA-ScR): Checklist and Explanation. *Ann. Intern. Med.*, 169(7), 467. <https://doi.org/10.7326/M18-0850>

“Let us never consider ourselves finished nurses.

We must be learning all of our lives.”

Florence Nightingale – 1820-1910



Thank you for listening



“An expanding cloud of chaos surrounds the word informatics.”

(Friedman, 2012).