The Barriers and Facilitators to Real-Time Electronic Documentation in the Context of Home Care Nursing

An Integrative Review

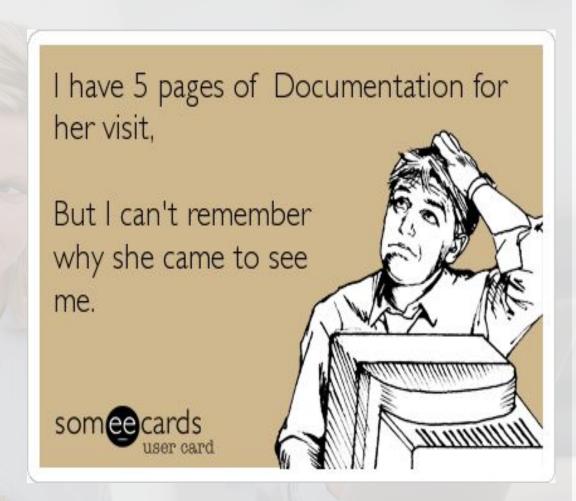


Abiola Olatona BN BSc. RN
MN-Candidate, Faculty of Nursing

Agenda

- Introduction
- Facts
- Background & Significance
- Purpose of Research
- Research Methods
- Findings
- Implications & Conclusion
- Recommendations
- Acknowledgements
- Questions and Answers

Introduction



Facts



- Technological advancement is evolving and imminent(Bajwa, 2014).
- Clinical documentation is evolving & crucial to overall client outcome (Howard et al.,

2013; Kohle-Ersher et al., 2012; Tharmalingam, Hagens, & Zelmer, 2016;).

 Real-time electronic documentation (R-TED) at Point-of-Care (POC) validates effectiveness of the EHR

(Carlson et al., 2010; Courtney et al., 2005; Duffy et al., 2010; Turner, 2016; Yeung, Lapinsky, Granton, Doran, & Cafazzo, 2012).

Background & Significance

- POC technologies have impacted clinical practice (Björvell, Wredling, & Thorell-Ekstrand, 2003; Blair & Smith, 2012).
- Real-time electronic documentation is critical to home healthcare practice (Braunstein, 1994; Canadian Home Care Association, 2008; Lavin, Harper, & Barr, 2015).
- Frontline clinicians are ready (Canada Health Infoway & Canadian Nurses Association, 2016).
- Limited empirical studies (Thomson, Osborn, Squires, & Reed, 2011).

Research Purpose



- Identify barriers & facilitators to R-TED at the POC in the context of home healthcare nursing.
- Gain a better understanding of the coexistence of technology and caring.
- Provide recommendations based on findings.

Methods

Research Question

"What are the barriers and facilitators to real-time electronic documentation in the context of home healthcare nursing?"

Theoretical Model

Locsin's framework "Technological Competency as Caring" (Locsin, Parker, & Smith, 2010).

Integrative Review (IR)

Whittemore and Knafl Framework (2005)

Methods

Whittemore & Knafl's Framework



- Clear identification of the clinical problem and purpose of the review.
- · Definitions of main concepts, and sampling frame

LITERATURE SEARCH

- Search strategy: Concept-mapping; Five databases, reference lists and grey literature; Inclusion /Exclusion criteria; PRISMA Flow Diagram
- Search outcome: 8 out of 774 articles met the inclusion and exclusion criteria.

DATA EVALUATION

- Quality appraisal of studies using CASP and MMAT
- Extraction of evidences of barrier and facilitators from each article

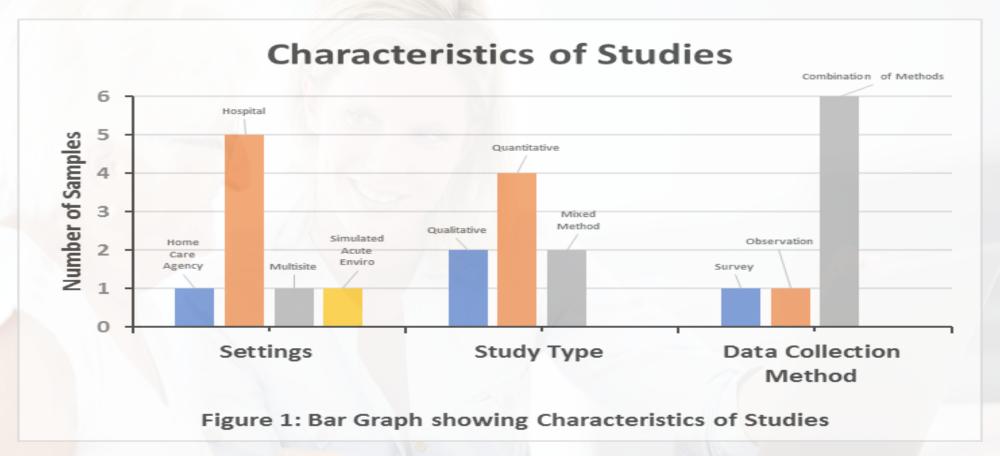
DATA ANALYSIS

- Iterative data examination process to identify patterns, themes, and relationships among the represented groups and sub-groups
- Thematic analysis

PRESENTATION OF CONCLUSION

Writing and dissemination of findings from the integrative review

Findings



Findings

Barriers and Facilitators to Real-time Electronic Documentation

Contextual Factors

- Complex & unpredictable environment
- Computer training & resources
- · Leadership & peer support

Unintended EH

Training & Support Clinicians-

Related

Factors

- · Age & technological competency
- Attitudes & perceptions
- Documentation practices

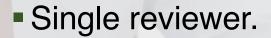
Technological Factors

- Hardware/device functionality
- · Software/ EHR functionality
- Unintended EHR consequences

Strengths & Limitations of Research

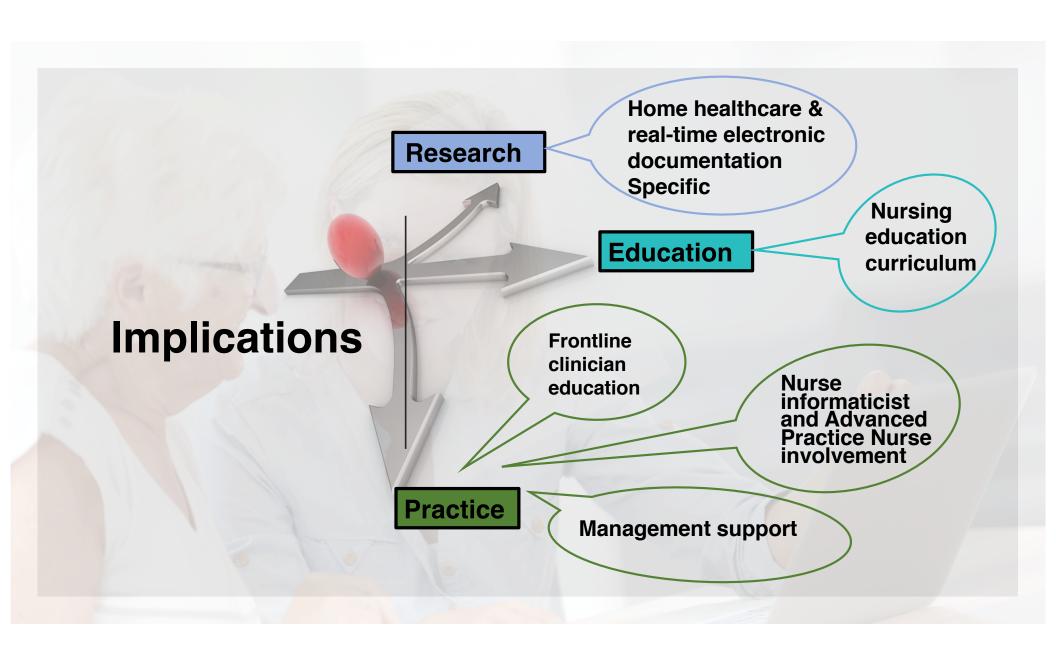


Increase body of knowledge.



- Limited findings.
- Topic in the infancy stage.





Conclusions

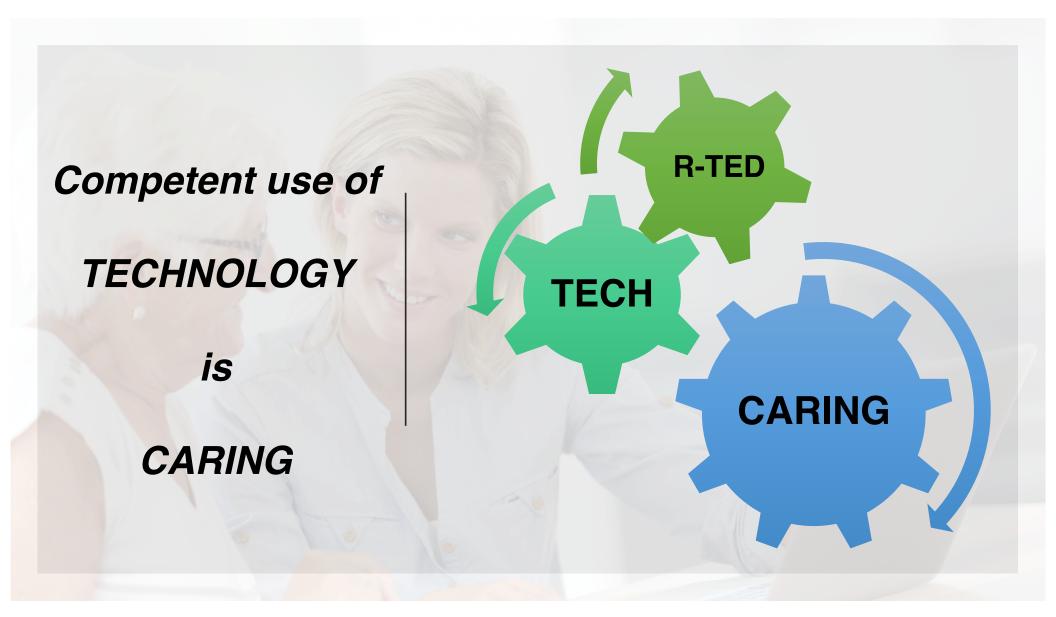
- R-TED at POC can improve the experiences of home care clients.
- Home care clinicians appear ready to adopt R-TED at POC.
- Technological competency/computer training for home care clinicians.
- Engage homecare clinicians & stakeholders in all stages of POC implementation process.

Recommendations



- Strategic & targeted research
- Technological competency: computer training, & frontline clinicians' experience (Chand, & Sarin, 2014; Goveia, Van Stiphout, Cheung, Kamta, Keijsers, Valk, & Ter Braak, 2013; Ward, Vartak, Schwichtenberg, & Wakefield, 2011).
- Strategies to enhance clinicians' acceptance and usability issues (Lavin, Harper, & Barr, 2015; Turner, 2015 & 2016).
- Nursing informatics & Advanced Practice Nurse involvement (Goveia, Van

Stiphout, Cheung, Kamta, Keijsers, Valk, & Ter Braak, 2013).



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Abiola Olatona, BN BSc. RN, MN-Candidate.

aolatona@outlook.com

403 397 8647