Adoption, Diffusion, and Implications of Innovative Nursing Dissertation Models



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AACN Doctoral Nursing Conference January 17-19, 2019

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Janessa M. Graves, PhD MPH Assistant Professor College of Nursing, Washington State University

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Presentation outline

- Dissertation models
 - Traditional vs. Alternative
 - Advantages vs. Disadvantages
- Current practices in nursing PhD programs
- Effectiveness of alternative models in improving dissemination
 - Study 1
 - Study 2
- Next Steps
- Conclusions

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"Manuscript Option" Dissertation Format

Traditional Format

١.	5-6 chapters;
	Intodroduction/significance/scope
н.	Review of literature
ш.	Methods (design, sample, measures,
	analytic strategy)
IV.	Findings
V.	Discussion and Recommendations

Manuscript Option Format

 5 "chapters"; Introduction and overview of topic and three papers
 Review of literature; systematic review; theoretical framework
 One data-based manuscript
 Two data-based manuscripts
 Discussion and Recommendations

Broome, M. (2018). The Manuscript Option Dissertation: Dissemination and Challenges. Nurse Author & Editor, 28(1), 1.

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PhD Nursing Science (Indiana University)	PhD in Nursing with Informatics Concentration (Blekinge Institute of Technology, Sweden)	
Giambra, B. K., Sabourin, T., Broome, M. E., & Buelow, J. (2014): The theory of shared communication: How parents of technology dependent children communicate with nurses on the inpatient unit. <i>Journal of Pediatric</i> <i>Nursing</i> , 29(1), 14-22. <u>PMID: 23583360</u>	Georgsson, M., & Staggers, N. (2016). Quantifying usability: an evaluation of a diabetes mHealth system on effectiveness, efficiency, and satisfaction metrics with associated user characteristics. <i>Journal of the American Medical Informatics</i> <i>Association: JAMIA</i> , 23(1), 5–11. https://doi.org/10.1093/jamia/ocv099	n
Giambra, B. K., Stiffler, D., & Broome, M. E. (2014). An integrative review of communication between parents and nurses of hospitalized technology- dependent children. Worldviews on Evidence-Based Nursing, 11(6), 369- 375. PMID: 25230724	Georgsson, M., & Staggers, N. (2016). An evaluation of patients' experienced usability of a diabetes mHealth system using a multi-method approach. <i>Journal of Biomedical Informatics</i> , 59, 115–129. https://doi.org/10.1016/j.jbi.2015.11.008.	Georgsson, M., & Staggers, N. (2016). Heuristic evaluation of an mHealth diabetes self- management system using disease specific patient profiles. <i>Studies in Health Technology and</i> <i>Informatics</i> , 225, 530–534. Retrieved from https://www.ncbi.nlm.nih.goy/pubmed/2733225
Giambra, B., Broome, M.E., Sabourin, T., Buelow, J.M., & Stiffler, D. (2017). Integration of Parent and Nurse Perspectives of Communication to Plan Care for Technology Dependent Children: The Theory of Shared Communication. <i>Journal of Pediatric</i> <i>Nursing</i> . <i>PMID</i> : 28169035, DOI:	Georgsson, M., Staggers, N., & Weir, C. (2016). A Modified user-oriented heuristic evaluation of a mobile health system for diabetes self- management Support. <i>Computers, Informatics,</i> <i>Nursing: CIN</i> , 34(2), 77–84. https://doi.org/10.1097/CIN.000000000000209.	Georgsson, M., & Staggers, N. (2016). A practical method for data handling in multi-method usabili research studies. <i>Studies in Health Technology and Informatics, 228</i> , 302–306. Retrieved from https://www.ncbl.nlm.nlh.gov/pubmed/2757739/

Broome, M. (2018). Nurse Author & Editor, 28(1), 1.





























Why not adopt?

- Half of the schools with "Traditional" format dissertations only reported having considered the Manuscript Option in the past
- Factors playing a role in decision <u>not</u> to adopt (not mutually exclusive):
 - Lack of PhD program faculty support for the manuscript option (33%)
 - Challenge(s) with University/College regarding issues such as copyrights (22%)
 - Perception that alternative dissertations (such as the manuscript option) are less rigorous than traditional formats (22%)
 - Concern(s) about ambiguous requirements for manuscript option dissertations
 - Concern(s) about quality (22%)
 - Not all dissertations are suitable for manuscript option format (22%)

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Why <u>not</u> adopt? (Qualitative text)

- Editor fatigue
- External factor(s) (e.g., other university programs)
- Time (concerns about program progression)
- Unclear policies and procedures
- Faculty educational philosophy
- Limits depth in topic
- Few publication opportunities

"Watered down the process"

"Concern for quality of manuscripts submitted for publication and 'flooding' journals with manuscripts that burden editors and reviewers"

College of Nursing	<u>Note</u> : Responses are only from programs that considered but chose to not offer the manuscript option.	Open-ended
	question.	



Why adopt? Subset of the second second























Study 2	
How effective are alternative manuscript formats for nursing doctoral students?	
Compared to the traditional format, do students who chose the manuscript format publish their dissertation-related research sooner? generate more publications? have greater "scholarly productivity"?	
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ProQuest Dissertations & Theses Database (PQDT) Step 2: Search from date of offering manuscript Dissertation dissertation format option • Search terms: Search • College/School of Nursing name (anywhere) • University name (exact, in school field) Additional limits: Dates, Manuscript type \e Search terms - (College of Nursing) AND sch.Exact("Washington State University") Additional limits - Date: After 2019 December 31; Manuscript type: Doctoral dissertations Review for eligibility • Discipline Degree type

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Step 3: Dissertation Coding

This overview of the dissertation will present (a) a discussion of the changes made from the research proposal, (b) an overview of the three papers that were written for partial completion of the final dissertation, (c) a report of the research findings that were not included in the three papers as well as a discussion of the reasons for exclusion of the findings, and (d) a brief discussion for two manuscripts to be written post-dissertation based on the findings from this research study. Following this introductory section, there are four additional sections that constitute the final dissertation to be submitted to the

dissertation committee: (a) the dissertation proposal approved by the committee in September 2009, (b) manuscript number one, (c) second paper, (d) final paper reporting the results.

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Step 4: Article Search

- PubMed, CINAHL, PychInfo, Google Scholar
- Author search
 - For very common names (e.g., Jennifer Smith), restrict search to nursing journals only (PubMed)
- Year restriction (1 year prior to dissertation defense and forward)
- Export
 - Endnote
 - Excel

























		Robust					
atleastone	IRR	Std. Err.	z	P> 2	[95% Conf.	Interval]	
type_int				\frown			
Manuscript	1.468301	.2013334	2.80	0.005	1.122273	1.92102	
year							
2005	1			*2		1.50	
2006	1279897	1478800	12.17	0.000	132951.1	1.23e+07	
2007	1366302	1467853	13.15	0.000	166371.6	1.12e+07	
2008	866633.1	730593.7	16.22	0.000	166054.5	4522929	
2009	1194169	1267004	13.19	0.000	149261.3	9553981	
2010	796140.9	848546	12.75	0.000	98573.23	6430147	
2011	986484.6	1042804	13.06	0.000	124248.9	7832277	
2012	1279897	1418159	12.69	0.000	145888.7	1.12e+07	
2013	910898.5	1024494	12.20	0.000	100488.9	8256995	
2014	639962.9	764594	11.19	0.000	61543.77	6654655	
2015	986550.8	1074560	12.67	0.000	116676.4	8341724	
2016	1579543	1651389	13.65	0.000	203522.6	1.23e+07	
2017	639962.9	765114.3	11.18	0.000	61445.78	6665268	
2018	358655.8	410534.1	11.17	0.000	38049.85	3380669	
College of Nur	6.33e-07	6.62e-07	-13.66	0.000	8.16e-08	4.91e-06	















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Study 2 Findings: Where are our graduates publishing their research? **Manuscript Dissertations** Traditional Dissertations 1. Geriatric Nursing 1. Advances in Neonatal Care 2. International Journal of Nursing Studies 2. Applied Nursing Research 3. Journal of Clinical Oncology 3. Biological Research in Nursing 4. Journal of Nursing Regulation 4. Clinical Simulation in Nursing Journal of the American Medical Informatics Association 5. 5. Early Human Development 6. Journal of Obstetric, Gynecologic, and 6. Medical Care Neonatal Nursing 7. Nursing Outlook 7. Journal of Perinatal and Neonatal Nursing 8. Nursing Research 8. Journal of Advanced Nursing 9. Western Journal of Nursing Research 9. Journal of Clinical Nursing 10. Wound Repair and Regeneration 10. Journal of Nursing Research College of Nursing N=416

Next Steps	 Study 2 Complete article search Additional outcomes Time to publication Number of first-author publications Number of coauthors per article Number of times each article is cited Altmetric outcomes Journal metrics Additional analysis considerations Account for institutional adoption date Mixed models Survival analysis
	 Ideas for future work Simple time series analysis Does adoption of manuscript option dissertation model increase time-to-publication for traditional dissertations?









Context: Our plans at WSU

- Finalize policy with PhD Advisory Board
- Consult with Graduate School
- College of Nursing Graduate Faculty must vote to approve
- Bylaws will be changed to include the manuscript option





