

GS/NURS 5300

Quantitative Research Methods in Nursing Science Winter 2017, Section M

Fay M Dastjerdi, RN, PhD

Welcome to NURS 5300 Qualitative Research Method in Nursing Science.

The Moodle Tutorial contains information about using Moodle, the platform for the course. To begin the course, go to the **Introduction** where you will find out background information that will help you in the course.

- Every time you visit, check the Course Announcements forum below for current announcements, instructions, and class activities.
- My e-mail is: dastjerd@yorku.ca
- My office is at HNES building Room # 352, Please make an appointment for in person assistance.

A. Calendar Course Description

This online course focuses on acquisition and application of fundamental concepts, methods, and procedures of quantitative nursing research required to develop a research proposal; including but not limited to: developing researchable questions, designing research selecting appropriate methods and analysis strategies.

Co-requisite or prerequisite NURS 5100 6.0 or with permission of the Course Director.

B. Expanded Course Description

This course will enhance the student's knowledge in quantitative research methodology, one of the multiple ways of knowing in nursing. The student will develop the skills required to develop a research proposal using quantitative research methods by completing key steps in this process.

By the end of this course, the student will be able to:

- formulate researchable questions and hypotheses;
- understand the relationship between theory and research;
- synthesize current literature review pertaining to the research questions;
- articulate the linkages between the research question and study design;
- compare and contrast various quantitative research designs;
- understand threats to the internal validity of quantitative research designs and methods to reduce such threats;
- identify appropriate data collection methods, including validity and reliability of data collections instruments; and
- demonstrate knowledge in a selected number of intermediate data analyses methods, such as multiple regression, ANOVA, and RM-ANOVA.

This is an Internet course and students are required to regularly access Moodle and their yorku.ca email account. Note that email communication about the course should be via your yorku.ca email. Access to Moodle requires a Passport York login and password. If you have managed to obtain a copy of this outline, but do not yet have a Passport York account, click on <http://www.yorku.ca/computing/students/accounts/passportyork.html> to set one up. To access Moodle, click on <http://moodle.yorku.ca> and remember to join the course so you can obtain materials and start posting.

Required text.

Polit, D.F., & Beck, C.T. (2012). *Nursing research: Generating and assessing evidence for nursing practice* (9th ed.). Philadelphia, PA: Lippincott, Williams and Wilkins.

PLEASE PURCHASE FROM AMAZON

Recommended text.

American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.

PLEASE PURCHASE FROM AMAZON

Obtaining articles. (N.B. all articles are available online through York's library)

You can obtain a copy of the articles by:

- Go to <http://www.library.yorku.ca/ccm/jsp/homepage.jsp>
- Under Title Quick Search, type in the name of the journal (e.g., Journal of Nursing Scholarship), click on eResources, and then Go.
- Click on one of the resources that include the year you are looking for, e.g., v.31, 1999 - [Blackwell Journals].
- You will then need to sign in when accessing from home (Passport York or library number).
- Click on the year you want, e.g., 2008, and then the required volume and issue, e.g., Volume 40, Issue 2.
- Scroll down to find authors' names (Rew, Grady, Whittaker, & Bowman) and click on PDF version; you can then print the article (you also can save the article to your own computer or USB key which I recommend you do).

Required Articles for Online Discussion

Cossette, S., Frasure-Smith, N., Robert, M., Chouinard, M-C., Juneau, M., Guertin, M-C., Cournoyer, A., Mailhot, T., & Kayser, J. W. A pilot randomized trial of a smoking cessation nursing intervention in cardiac patients after hospital discharge. *Canadian Journal of Cardiovascular Nursing*, 22(4):16-26. (published February 2013).

- Covell, C., L., Neiterman, E., & Bourgeault, I.L. (2014). A scoping review of the literature on internationally educated nurses in Canada: Mapping a research agenda. *Canadian Journal of Nursing Research, 46*(3), 26-45.
- Creamer, A., M., Mill, J., Austin, W., & O'Brien, B. (2014). Canadian nurse practitioners' therapeutic commitment to persons with mental illness. *Canadian Journal of Nursing Research, 46*(4), 13-32.
- El-Masri, M., M., Omar, A., & Groh, E., M. (2015). Evaluating the effectiveness of a nurse practitioner-led outreach program for long-term care homes. *Canadian Journal of Nursing Research, 47*(3), 39-55.
- Héon, M., Goulet, C., Garofalo, C., Nuyt, A., M., & Levy, E. (2016). An intervention to promote breast milk production in mothers of preterm infants. *Western Journal of Nursing Research, 38*(5), 529-552.
- Koopman, W., J., LeBlanc, N., Fowler, S., Nicolle, M., W., & Hulley, D. (2016). *Canadian Journal of Neuroscience Nursing, 38*(1), 56-64.
- Newman, K., Doran, D., & Nagle, L.M. (2014). The relation of critical care nurses' information-seeking behavior with perception of personal control, training, and non-routineness of the task. *Dynamics, 25*(1), 13-18.
- LePage, M., Dumas, L., & Saint-Pierre, C. (2015). Teaching smoking cessation to future nurses: Quebec educators' beliefs. *Western Journal of Nursing Research, 37*(3), 376-393.
- Ortiz, M., M., Carr, E., & Dikareva, A. (2014). An integrative review of the literature on pain management barriers: Implications for the Canadian clinical context. *Canadian Journal of Nursing Research, 46*(3), 65-93.
- Sidani, S., & Doran, D.I. (2014). Development and validation of a self-care ability measure. *Canadian Journal of Nursing Research, 46*(1), 11-25.
- Wong CA, Cummings G & Ducharme L. (2013). The relationship between nursing leadership and patient outcomes: A systematic review update. *Journal of Nursing Management, 21*, 709-724.
- Yeh, H-Y., Ma, W-F., Huang, J-L., Hsueh, K-C., & Chiang, L-C. (2016). Evaluating the effectiveness of a family empowerment program on family function and pulmonary function of children with asthma: A randomized control trial. *International Journal of Nursing Studies, 60*, 133-144.

Additional Material

- Giddings, L. S., & Grant, B. M. (2007). A Trojan horse for positivism? A critique of mixed methods research. *Advances in Nursing Science, 30*(1), 52-60. Retrieved from <http://www.advancesinnursingscience.com>
- Jones, A., & Bugge, C. (2006). Improving understanding and rigour through triangulation: An exemplar based on patient participation in interaction. *Journal of Advanced Nursing, 55*(5), 612-621. doi:10.1111/j.1365-2648.2006.03953.x

Owen, S. V. (2005). The significance of significance [Editorial]. *Research in Nursing & Health*, 28(4), 281-282. doi:10.1002/nur.20081

Serlin, R. C., Ameringer, S., & Ward, S. E. (2006). A note on "The significance of significance" [Letter to the Editor]. *Research in Nursing & Health*, 29(2), 166-167. doi:10.1002/nur.20120