

Clinical Guideline Development: Students Putting the Process into Practice

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- The 2014 National Organization of Nurse Practitioner Faculty (NONPF) Core Competencies, expects faculty to impart Scientific Foundation Competencies to our students in nurse practitioner programs.
- Students should be equipped to critically analyze evidence, integrate and translate research into practice for the purpose of improving patient processes and outcomes.
- The educator's challenge is to identify assignments where scientific foundation competencies are understood and practiced by the student with such acumen as to be translated to their clinical practice behavior.

Background

- Essential I – VI
 - Background for practice from sciences & humanities
 - Organizational & systems leadership
 - Quality improvement & safety
 - Translating & integrating scholarship into practice
 - Informatics & healthcare technologies
 - Interprofessional collaboration for improving patient & population health outcomes

Master's Essentials

- Master's Family Nurse Practitioner Program
- Family Nurse Practitioner Final Clinical Course (5 hours)
- Assignment:
 - Select a guideline, which is outdated or a new clinical topic.
 - Search the existent nursing & medical literature.
 - Evaluate the research evidence using established criteria.
 - Choose interventions, make recommendations & justify selection.
 - Write-up your findings using the clinical guideline format/template.

Courses

- A process evaluation was undertaken for a graduate teaching-learning assignment to develop a national clinical guideline.
- Faculty and inter-professional team members mentored students through the scientific rigor of the development, review, submission, and acceptance of a National Clearinghouse Guideline.
- The faculty and students met weekly as a research team for 15 face-to-face meetings.

Process

- During the working meetings, the evidence-based approaches of an integrated literature review, article evidence-grading, and clinical guideline development were implemented.
 - Three drafts due throughout the course & final paper was due at end of course
- On-line shared documents fostered continuous editing by the team members. Independent professional reviewers provided expert and editorial advice.
- Faculty submitted the guideline for the educational institution after student grad.

Process

- Graduate teaching-learning assignment to develop a national clinical guidelines
 - *Occupational guidance for physical and shift work of pregnant women in the United States.* The National Guideline Clearinghouse: NGC-10415.
 - *Evaluation of vertigo in the adult patient.* The National Guideline Clearinghouse: NGC-10416.
 - *Clinical guideline for the treatment of primary insomnia in middle-aged and older adults.* The National Guideline Clearinghouse: NGC-10414.

Outcome Measures

Clearinghouse

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University of Texas at Austin School of Nursing, Family Nurse Practitioner Program

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Compare Guidelines

- Clinical guideline for the treatment of primary insomnia in middle-aged and older adults.** 2014 May. NGC:010414
University of Texas at Austin School of Nursing, Family Nurse Practitioner Program - Academic Institution.
- Evaluation of vertigo in the adult patient** 2014 May. NGC:010416
University of Texas at Austin School of Nursing, Family Nurse Practitioner Program - Academic Institution.
- Occupational guidance for physical and shift work of pregnant women in the United States** 2014. NGC:010415
University of Texas at Austin School of Nursing, Family Nurse Practitioner Program - Academic Institution.

Outcome Measures

- Course requirements were that the teams presented the guideline to classmates and develop a clinical deliverable to facilitate implementation of the guideline into practice.
 - Pocket teaching tools, provider reminder cards, etc.
- The team also developed a manuscript for peer-reviewed publication on the guideline topic.
- The faculty led the journal publication process.

Process

- Schmelzer, N., Guevara, H., Andrews, L., Denman, J., Do, D., Oknogo, S., Pina, D. M., Schulte, K., & Willson, P. (2014). Occupational guidance for physical and shift work during pregnancy: A review. *The Internet Journal of Advanced Nursing Practice*, 13(1).
<https://ispub.com/IJANP/13/1/15892>

Presentation & Article

- The program assignment met the expected course and national NONPF outcomes.
- Students, faculty and mentors authored a National Clearinghouse Guideline.
- Additionally, the team's manuscript was published in a peer-reviewed journal.

Discussion

- Formative evaluation of the course assignment was positive, with student's expressing pride in their published guideline and excitement at adding a publications to the curriculum vita.
- Faculty admitted to increased workload of mentoring, yet benefited from the publication.
- The process evaluation determined that the assignment met the national scientific foundation competencies that will likely benefit the Advance Practice Nurses and the patients they serve.

Lessons Learned

- Future evaluation should address the long term goal of continued scholarly activities of our graduates.
- Incorporate assignment to DNP Program Courses using step approach over several courses to space out intensive workload.
- Advocate for increased workload credit for this writing intense course.

Recommendations

Andrews, L., Do, D., Guevara, H., Okongo, S., Pina, D., Schmelzer, N., Schulte, K., Doggett, L., Worley, P., Derebery, J., & Willson, P. (2014). Occupational guidance for physical and shift work of pregnant women in the United States. The University of Texas at Austin: Family Nurse Practitioner Program. The National Guideline Clearinghouse: NGC-10415.

Atkins, P., Lovoi, T., Maxwell, M. C., Queen, D., Ratz, R., Stanley, A., Volz, M., Witten, M., Worley, P., Doggett, L., Willson, P. (2014). Evaluation of vertigo in the adult patient. The University of Texas at Austin: Family Nurse Practitioner Program. The National Guideline Clearinghouse: NGC-10416.

Baker, S., Bhatta, S., Bowden, E., Calaway, V., Kinser, J., Vinueza, K., Xie, Y., Doggett, L., Worley, P., & Willson, P. (2014). Clinical guideline for the treatment of primary insomnia in middle-aged and older adults. The University of Texas at Austin: Family Nurse Practitioner Program. The National Guideline Clearinghouse: NGC-10414.

References

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Questions
