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Using an e-Learning Course to Enhance Student Patient Care Competency Within Interprofessional Settings

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The care of patients with multiple chronic conditions is becoming a significant factor in the delivery of health care in the U.S. (Orenstein, Nietert, Jenkins & Litvin, 2013). Because of their holistic approach, nurse practitioners (NPs) are uniquely qualified to care for the growing number of these patients, with the majority of NPs working in primary care (Van Vleet & Paradise, 2015). Chronic health conditions must be treated differently than acute or episodic problems, and the best outcomes are achieved through use of health care delivery frameworks that support chronically ill patients (Improving Chronic Illness Care, 2017). Patients with complex health problems benefit from the diverse skills and perspectives of an interprofessional healthcare team (Institute for Healthcare Improvement, 2014).

The Interprofessional Care of Individuals with Multiple Chronic Conditions (IPCMCC) eLearning course is designed to enhance the competency of NP students to support patients in the self-management of their chronic conditions within interprofessional healthcare teams. This highly interactive, open-access course integrates the competencies of the Interprofessional Education Collaborative (IPEC) Expert Panel (2011) with the Chronic Care Model (Wagner, et al, 2001). As we developed this eLearning course, we applied strategies to promote learner engagement and authentic practice. We selected key course topics such as patient engagement in self-care, Motivational Interviewing and other coaching techniques, behavior change facilitation, identification of community and family resources, promoting self-efficacy, and interprofessional teamwork. The content was selected based on studies that identified the characteristics of effective management of multiple chronic conditions (Bodenheimer, & Berry-Millett, 2009; Bodenheimer, T., & Abramowitz, S., 2010; Institute for Healthcare Improvement, 2015; Parehkh, Goodman, Gordon, & Koh, 2011). Throughout the course, real-world examples and scenarios provide the context for learning and contain interactive and reflective exercises. The course concludes with an immersive, video-based practice experience in which learners make decisions, receive feedback and experience consequences as they follow an interdisciplinary team through a day in the life of a patient-centered medical home.

Learners completed pre- and post evaluation surveys to measure satisfaction and perceived learning with the eLearning course. Responses were rated on a 5-point Likert scale ranging from poor (1) to excellent (5). The pre-and post-test results were as follows: applying the Chronic Care Model to clinical practice, $t = -11.67$, $df = 98$ $p < .0001$, coaching patients for self-management, $t = -9.46$, $df = 98$ $p < .0001$, interprofessional collaboration skills, $t = -2.40$, $df = 98$ $p < .0001$, indicating a significant difference in perceived knowledge between the pre-and post-test. The majority of the learners were satisfied or very satisfied with the modules. Qualitative findings indicate high level of satisfaction with the video scenarios. Results of our evaluation indicate that students found the Interprofessional Care of People with Multiple Chronic Conditions eLearning course to be engaging, informative and applicable to real world practice.

The IPCMCC eLearning Course is freely available for use by educators, students and providers worldwide through an open-access learning management system. We will demonstrate portions of the course and its complementary Instructor Guide for the benefit of faculty who may wish to access and adopt the course within their own curricula.

Title:

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Keywords:

Chronic conditions, Interprofessional practice and eLearning

References:

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Abstract Summary:

See and learn about the Interprofessional Care of People with Multiple Chronic Conditions eLearning course, designed to enhance the competency of NP students to support patients in the self-management

of their chronic conditions within interprofessional healthcare teams Evaluation results support the educational value of this highly interactive, open-access course.

Content Outline:

1. Need for innovative educational approaches to help students become competent with team-based interprofessional care of patients with multiple chronic conditions
2. Description of the development and demonstration of the *Interprofessional Care of People with Multiple Chronic Conditions* eLearning course
 - a. Rich multimedia presentations of the Chronic Care Model and Interprofessional Practice framework
 - b. Embedded, real-world examples and interactive practice activities
 - c. Immersive video-based decision-making following team members through a day in the life of a primary-care medical home
3. Evaluation findings
4. Accessing and adopting the open-access eLearning course
5. Conclusions

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Professional Experience: Over 20 years experience in developing online courses, educational assessment, and program evaluation. Development and implementation of several eLearning courses. Faculty member for 20 years with extensive experience in the education of nurse practitioner and doctoral level students. Recipient of several teaching awards.

Author Summary: Dr. Pintz's research is focused on the use of educational technology and distance education in graduate nursing education, interprofessional education and patient engagement. She has received both the STTI Educational Technology and the Best Practices in Technology Awards. Dr. Pintz was selected for the National Library of Medicine Medical Bioinformatics Program. In addition, she is a fellow of the National Association of Nurse Practitioners and the National Academies of Practice.

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Author Summary: Patricia Farmer is a nurse practitioner and educator from northern California. She has over 35 years of experience in nursing including roles in practice, academia, and policy. She serves as a nurse researcher and strategist for the Academic Progression in Nursing project and a consultant to the Center to Champion Nursing in America.