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Storytelling And Reflective Pedagogy: Transforming Nursing Education Through Faculty Development

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ABSTRACT

Nurse educators require pedagogical approaches beyond traditional methods to facilitate student learning of new competencies to practice in complex health care environments. However, little direction is available about how to effectively transform education. The purpose of this quality improvement project was to develop and implement steps to initiate change in both systems and processes of teaching and learning; to provide an efficient, sustainable method to incorporate transformative pedagogies through innovative faculty development; and, to collect outcomes of an e-Learning course to support teaching, using Kirkpatrick's 4-level Model. An innovative course using storytelling and reflective pedagogy was developed to guide faculty into a transformative learning experience to challenge assumptions, gather insights, and raise questions about teaching practices. Pre- and post-course surveys captured data across three levels: satisfaction, knowledge and skill acquisition, and change in behavior. Forty-five participants were initially evaluated, while 31 were eligible for evaluation at three months. Follow-up survey results yielded a 42% response rate. Pre- and post-surveys were analyzed using a two-tailed, dependent t-test. Significant gains were recorded across all three areas (p < 0.05), with large to medium effect size noted using Cohen's d. Follow-up surveys revealed a significant change in knowledge (p < 0.05), whereas the skill and attitude effect change were not statistically significant (p < 0.05). Results suggest storytelling and reflective pedagogy are effective for faculty to confront and resolve actual and desired teaching practices, and that faculty placed value on reflection to facilitate self-awareness, question assumptions, and nurture ideas about personal and professional growth.

Keywords: Nursing; Faculty Development; Pedagogy; e-Learning

he urgent call to transform educational practice rings loud across higher educational landscapes (Cohen & Kisker, 2010; Hutchings, Huber, & Ciccone, 2011). However, transcending boundaries of knowledge development requires a paradigm shift in the way educators view student learning (Bain, 2004; Bass, 2012; National Research Council, 2000). Accordingly, the National Academy of Medicine, formerly known as the Institute of Medicine (IOM, 2003), declared transformation of education an imperative to equip health professionals with necessary competencies to deliver safe, evidence-based, patient-centered care. In 2010, landmark reports from the Carnegie Foundation for the Advancement of Teaching (Benner, Sutphen, Leonard, & Day, 2010) and the IOM task force on the Future of Nursing charged nurse educators with using new competencies in preparing future nurses to practice in increasingly complex health care environments. In 2014, the Robert Wood Johnson Foundation requested the IOM to assemble a committee to review progress made on implementing The Future of Nursing report recommendations. Findings identified continuing need for effective education in preparing nurses, who represent the largest segment of the health care profession, to provide quality health care in a system that is changing both rapidly and fundamentally. Certainly, the current health care landscape makes the delivery of quality nursing education more important than ever (National Academies of Sciences, Engineering, and Medicine, 2015).

Advancing nursing education requires qualified nurse educators to bring state-of-the-science knowledge of nursing practice to the academic setting. However, the critical shortage of nursing faculty has necessitated a quick-hire process of expert clinicians with little orientation to the teaching and learning process (AACN, 2014). Additionally, new ways of teaching are needed to graduate nurses who are agile in complex decision-making, can easily adjust to a changing

health care landscape, and are able to think critically while caring for diverse patient populations. Indeed, faculty need pedagogical approaches beyond traditional methods to facilitate student learning of new competencies, while creating an active and participatory educational environment aligned with the realities of today's nursing practice (Benner et al., 2010; Sherwood & Horton-Deutsch, 2015).

No longer can filters from past experience and education be used to view present and future educational needs. Nursing must transform education and practice to adjust to the changing health care environment, yet little direction is available about how to effectively respond to the confusion and rapid acceleration of required change (Sherwood & Horton-Deutsch, 2015). Need for evidence-based pedagogies is well documented in nursing literature (Halstead, 2007; Benner et al., 2010), but process steps that lead to desired change remain unknown (Sherwood & Horton-Deutsch, 2015). Additionally, the complexity of the education system, and the influences that act upon it, both internal and external, make implementation of improvements difficult to sustain. Therefore, many nursing programs struggle to initiate change without an efficient, structured method for implementing effective pedagogies necessary for the continually transforming health care environment.

The purpose of this quality improvement project was threefold: first, to develop and implement a series of thoughtfully crafted steps to initiate change in both systems and processes of teaching and learning in our nursing program; second, to provide an efficient, sustainable method to incorporate transformative pedagogies through innovative faculty development; and, third, to collect self-reported low- and high-level outcomes of an online interactive faculty development course to support teaching using Kirkpatrick's 4-level model. To this end, we established an infrastructure and culture to support an eLearning program of faculty development, and then implemented storytelling and reflective pedagogy as an educational change strategy to lead and sustain transformation in teaching nursing. Although transforming nursing education is a daunting task, our hope is to inspire those who are involved in, or contemplating, change to seek effective solutions from those who have begun the journey.

BACKGROUND

Change is hard; both to implement and to sustain. An organization will likely return to its "norm" or previous state unless a supportive, stable infrastructure is present. Infrastructural components facilitate integrated development of the desired initiative, creating shared responsibility for implementing and sustaining change (Sabelli & Dede, 2013). Accordingly, an important first step in transforming education is to create an infrastructure to support change. This involves a shift from a traditional organization to a more transformative one that focuses on improvement of teaching practice through integration of new competencies and advances in education (Sherwood & Horton-Deutsch, 2015). Changing perceptions across any organization is key to effective change; placing emphasis on faculty development is especially important in supporting faculty members to adapt to their changing roles in nursing education (Sarikaya, Kalaca, Yegen, & Cali, 2010).

Also important to initiating and sustaining successful change in educational reform is the establishment of collegewide communication and collaboration (Schriner et al., 2010). Aligning faculty, leaders, and faculty developers in a collaborative vision with the strategic direction of the institution is fundamental to achieve educational transformation (Neal &Peed-Neal, 2010). Efforts to support and guide faculty development—particularly in a changing context—are critically important for advancing scholarly competence. Faculty developers bring stakeholders together to strategize and collaborate on an organizational level to promote effective teaching and learning, while developing the capacity of individual faculty members (Schroeder, 2011). A supportive, stable infrastructure is vital to systemic educational improvements. Attention to infrastructural needs support their evolution over time, leading to sustained improvements. Faculty development ultimately boosts student achievement, increasing overall institutional effectiveness and transforming learning through new and improved ways of teaching nursing (Sarikaya, Kalaca, Yegen, & Cali, 2010).

Another step in transforming education is formation of an organizational culture that supports scholarly teaching and facilitates socialization and role development for nurse educators. Culture change depends upon the definition and view of the culture by its group members (Jasimuddin & Hasan, 2015). Shared values, beliefs, and norms shape culture and influence change within the nursing program for successful implementation of new practices. Faculty developers facilitate change and improve organizational culture through enhancing scholarly practices of evidence-based teaching and learning (Schroeder, 2011). Through structured faculty development, internalizing beliefs, values, and attitudes

toward teaching is championed, promoting formation of identity of faculty as excellent nurse educators. Explicitly promoting a culture of teaching excellence across the nursing program can have a positive and sustained impact on individual and collective teaching practices, and on student success outcomes (Halstead, 2009; McLaughlin, 2009). The resulting transformation of both faculty member and student represents a paradigm shift away from the traditional faculty-centered philosophy that steered the delivery of educational content, toward a model of student-centered learning that encourages students to seek and apply knowledge in new ways that develop critical thinking and problem-solving skills (Schaefer & Zygmont, 2003)

In today's changing health care landscape, transformation must be the cornerstone of nursing and nursing education. Transforming learning is requisite to transformative practice which requires new ways of teaching (McComish & Parson, 2013). However, nursing programs must be equipped to initiate and sustain teaching competency in order to prevent a return to previous, unsuccessful teaching methods. Faculty developers can be highly effective in motivating faculty to move beyond normally prescribed roles; their mobilizing influence is helpful in encouraging faculty to continuously seek improvement and contribute to innovative ideas, processes, and practices. In this way, faculty developers play a crucial role in facilitating change and integrating a culture of teaching excellence into the life of the nursing program.

INTENDED IMPROVEMENT: TRANSFORM TEACHING PRACTICE THROUGH INNOVATIVE, E-LEARNING FACULTY DEVELOPMENT USING STORYTELLING AND REFLECTIVE PEDAGOGY

To respond to calls for academic reform in nursing education, our nursing program established a structured faculty development program to lead organizational change in building an intentional, educational culture of teaching excellence. A strategic five-year faculty development plan was developed to support and guide faculty to reflect on, and effectively use, evidence-based pedagogies to successfully facilitate student achievement of course and program outcomes. Integral to the faculty development plan was the opportunity for faculty to challenge perceptions and gather insights about influences on their teaching practice. The goal was for faculty to learn about themselves as teachers, develop expertise in asking good questions about how teaching practice connects with student learning, and use the information gathered to improve teaching practice. To that end, an innovative, e-Learning interactive course was developed, implemented, and tested to enhance understanding of the teaching and learning process and teaching effectiveness.

Storytelling and reflective pedagogy were used to guide faculty into a transformative learning experience to challenge assumptions, gather insights, and raise questions about their teaching practices. Storytelling was selected to help faculty suspend belief, pique their curiosity, and guide them into a new way of teaching. Storytelling is a fundamental part of life. It is a philosophically provocative and practically useful way to make meaning, linking curiosity with experience across the gap of the unknown. The probing context of stories told in new ways helps faculty to make sense of abstract complexities, rendering it an unexpected but effective medium to explore new ways of teaching. According to McDrury and Alterio (2003), when we tell stories and use reflection, the possibility for change in ourselves and others is created.

As a pedagogy, reflection is a systematic way of thinking about one's actions and responses (Sherwood, 2014). It is a change process that incorporates experiential learning by considering what one knows, believes, and values within the context of an event, discriminating among emotional reactions and using the information to guide future responses and actions. In this way, reflection provides a mirror to the self by helping faculty to confront and resolve actual and desired teaching practices (Sherwood & Horton-Deutsch, 2012). Indeed, reflection is an educational change strategy that promotes a spirit of inquiry that can be used for self-development, and for determining future actions and responses in the academic role (Sherwood & Horton-Deutsch, 2012).

Professional development requires moving beyond acquisition of new knowledge and understanding into questioning and transforming our assumptions, values, and perspectives (Sherwood & Horton-Deutsch, 2012). The pedagogies of storytelling and reflection, used in innovative ways, offered the means to transformation—to a change in attitudes, skills, and behaviors related to teaching.

In collaboration with the instructional designer, faculty developers wrote stories of individuation that would appeal across multiple genres and depicted these stories as graphic novels in an online format. Individuation is a term used

by C.G. Jung (1969) for the process of psychic integration through which an individual finds a deep, inner relationship with self. According to Jung, individuation encompasses self-actualization, personal development, and value fulfillment. Through accessing and receiving the symbolic contents of a well-known individuation story, and by critically analyzing its underlying premises, faculty were provided the opportunity to challenge their perceptions and gather insights about influences on their teaching practice, while deepening their self-awareness.

One story involved a superhero called Captain Chamberlain, Master Instructor (See Figure 1).



In the story, Captain Chamberlain begins as an ordinary educator, Peter Professor, who teaches as he has been taught until he discovers his superpowers or new ways of teaching. On his journey of discovery, Peter encounters his nemeses--fellow educators who focus on content, grades, and right answers as integral to teaching. Peter is determined not to succumb to these old ways of teaching but becomes overwhelmed by learning new methods. Just when he fears he cannot succeed in learning effective ways of teaching, he encounters a master teacher who helps him to take down old paradigms and create new ways of thinking through intellectual challenge. Peter emerges from his ordeal with insight, awareness, and superpowers needed for deepening student learning across learning environments.

In addition to Captain Chamberlain, the well-known children's story, Alice in Wonderland, was adapted using similar themes as in the Captain Chamberlain story. Two stories, similar in thematic content but different in genre, were provided to appeal to varied preferences. Faculty were encouraged to read the story that most captured their imagination.

In both stories, each turn in the narrative arc provides insight into the underpinnings of teaching, and exposes incongruities between teaching actions and assumptions. Shadiow (2013) asserts that paying attention to thoughts and feelings surrounding this process illuminates how assumptions come to be confirmed, countered, or revised, and how teaching can be transformed for the better. Storytelling makes opportunities for growth become visible, revealing new perceptions that were not expected. It is within this moment of surprise or wonderment, she claims, that the potential for deeper understanding and growth emerges.

After reading the story, faculty then reflected upon the deeper meaning of the story using an e-Learning interactive journal which guided them to ask questions, challenge assumptions, and investigate their teaching practice (See Figure 2).



Sherwood & Horton-Deutsch (2012) suggest that the questioning aspects of reflection builds an environment that nurtures ideas and makes thinking visible. Through critical reflection, faculty were guided to become increasingly aware of the expectations, values, and underlying beliefs that frame how they teach, and to grow into new understandings about the enterprise of teaching. Shadiow (2013) contends that commitment to strengthening teaching grows in proportion to one's understanding of it; as insights deepen, possibilities multiply. This commitment is fed by the wellspring of stories, suggests Shadiow (2013), no matter the discipline. Seeking these deepest levels of reflection guided faculty to better understand their teaching and strengthen their practice, effecting an even greater potential for transformation.

THEORETICAL FRAMEWORK: KIRKPATRICK'S 4-LEVEL MODEL FOR EFFECTIVENESS OF PROFESSIONAL DEVELOPMENT

A strategic evaluation plan based on Kirkpatrick's Model (1994) was employed to measure outcomes of our faculty development e-Learning interactive course. Kirkpatrick's hierarchy model is widely used in health professions education, including nursing, to determine the effectiveness of faculty development (Leslie, Baker, Egan-Lee, Esdalie, & Reeves, 2013; Opperman, Liebig, Bowling, Johnson, & Harper, 2016; Zeng, Bender, and Nadershahi,2015). In this model, outcomes of professional development programs are evaluated using four levels: learner satisfaction, knowledge and skill acquisition, application of new knowledge and skills, and the achievement of mission-critical goals. This 4-level model of evaluation ensures continuous quality improvement of faculty development offerings, maximizes transfer of learning to behavior change in faculty, and contributes to key organizational outcomes. By gathering data demonstrating effectiveness of professional development resources, faculty developers can credibly show the value that professional development resources bring to the institution.

Many health professions report only low-level outcomes focused on learner satisfaction (Dreyer, Couper, Bailey, Talib, Ross, & Sagay, 2015; Haji, Morin, & Parker, 2013; Lapkin, Levett-Jones, & Gilligan, 2015). Although learner satisfaction is important, higher-level outcomes aim at transfer of learning to behavior change in faculty, which provides greater insight into the effectiveness of professional development resources. For this reason, we evaluated and report levels 1, 2, and 3 outcomes adapted from Kirkpatrick's Model, including:

- 1. faculty satisfaction with the professional development program, including content, delivery methods, and structure;
- 2. faculty knowledge and skill acquisition, including self-reported improvement in understanding of content presented, ability to integrate the content into their practice and value of the content presented; and
- 3. direct application of newly acquired instructional strategies and tools in practice.

METHODOLOGY

Context

Our nursing program is a large multistate, multiprogram, non-tenure institution in the United States. In keeping with its single mission, the College provides multiple points of entry for both graduate and undergraduate nursing students including: a pre-licensure BSN degree program on 20 campuses located in 14 states: a RN-BSN option that is offered in the online environment to registered nurses in 48 states; and seven specialty tracks for advanced nursing education. Approximately twenty-five percent of the student body is comprised of pre-licensure campus-based BSN students; the rest are enrolled in one of our post-licensure RN-BSN, MSN, or DNP programs. To maintain its student-centric focus, the College employs a cadre of diverse full- and part-time faculty.

Planning

An e-learning format was utilized to feature storytelling and reflective pedagogy to transform teaching practices. Faculty developers, in collaboration with an instructional designer, used Internet technologies to create, deliver, facilitate, and evaluate this e-Learning interactive course. The aim of this course was to guide faculty on a transformative journey to challenge assumptions and raise questions about teaching. This focus on faculty learning about learning was an intentional move from traditional, one-time faculty training toward ongoing, evidence-based professional development that places value and importance on reflection to enhance transfer of learning to the workplace (Steinert, 2014). To achieve this aim, an e-Learning, interactive course, including a graphic comic book and reflective journal, were developed to invite faculty to practice new skills in a compelling way. Situations and concepts that easily connect faculty with day-to-day teaching were graphically depicted creating a visual connection with the content, while e-Learning technology put learners in the position of discovering new information for themselves.

A virtual format was selected not only to transform static faculty training into interactive, engaging e-Learning, but also to provide efficiency and cost-effectiveness of delivery, as well as flexible framework (asynchronous) for anytime, anywhere self-guided learning. Equally important, this medium exposed faculty to latest educational technology and instructional methods, and fostered e-Learning competencies, which is critically important given the large numbers of our faculty who teach online.

Additionally, an electronic Facilitator's Guide was provided for academic leaders to facilitate team discussions about the experiences and insights encountered while completing the e-Learning, interactive course. Faculty can print and use their journal from the course as a basis for reflecting together with teams, thereby providing opportunity to gain insights, expand perspectives, and coordinate actions to accomplish change. Bringing thoughts and ideas to a collective process of reflection generates shared meanings; multiple views about teaching can be shared, and then used to transform individual teaching practices. According to Hutchings, Huber, & Ciccone (2011) team reflection leads to transformational learning, fostered by inquiry and engagement. Supporting faculty in this way—as inquirers into their own teaching—creates a collaborative community around teaching. At our nursing program, team reflection is conducted face-to-face and/or virtually with both full- and part-time faculty members

Design, Methods of Evaluation, and Sample

This quality improvement project utilized a mixed methods design to examine the processes and outcomes of using an e-Learning interactive course to transform teaching practice through storytelling and reflective pedagogy. Utilizing Kirkpatrick's Model (1994), pre- and post-course surveys were developed to capture data across three identified levels: faculty satisfaction, faculty knowledge and skill acquisition, and a change in participant behavior, namely, to what degree does the faculty member apply what was learned on the job. These electronic surveys were embedded into the beginning and end of the e-Learning, interactive course, and instructions were provided for completion of the surveys.

The pre-course survey addressed faculty ratings of their knowledge, skills, and attitudes toward the course content, using a one group pre-and post-test design. This pre- course survey aligns with level 1 of Kirkpatrick's Model. The post-course survey addressed these same areas of knowledge, skills, and attitudes toward the e-Learning interactive

content, using a one group post-test only design. Additionally, the post-course survey addressed participant reaction (satisfaction, engagement, and relevancy of content), as well as aspects of learning (confidence, and commitment), which align with levels 1 and 2 of the Kirkpatrick Model respectively.

Post-course surveys were employed longitudinally following three-month completion of the e-Learning interactive course to analyze a transfer of learning, namely, to what degree the faculty member applies what was learned during the course in their teaching practice. The electronic post-course survey link was distributed via email. This phase of evaluation aligns with level 3 of Kirkpatrick's Model.

Analysis and Findings

The initial sample size was 64 faculty participants. This constituted the number of full- and part-time faculty members who completed the e-Learning, interactive course using storytelling and reflective pedagogy within a specified threemonth timeframe. At the time of data analysis, 45 faculty participants were eligible to be evaluated for levels 1 and 2 of Kirkpatrick's Model, based on the completion of pre- and post-course surveys. However, only 31 faculty participants were eligible to be evaluated for level 3 outcomes, at three months completion of the course. Of the 31 faculty participants eligible for inclusion in the three-month analysis, 13 faculty participants responded culminating in a 42% response rate.

Descriptive and inferential analyses of the study sample were conducted. Descriptive statistics for all three surveys (pre-course, post-course, and three-month follow up) are presented in Table 1.

Table 1. Longitudinal Descriptive Statistics for Knowledge, Skills and Attitude

	Pre-course survey			Post-course survey			Follow-up survey		
	M	SD	N	M	SD	N	M	SD	N
Knowledge	3.64	0.80	45	4.51	0.66	45	4.31	0.48	13
Skills	3.80	0.81	45	4.40	0.72	45	4.54	0.52	13
Attitude	4.53	0.69	45	4.89	0.31	45	4.77	0.60	13

Note: M = mean. SD = standard deviation. N = sample size.

Inferential statistics included the use of t-tests and Cohen's d. The level of significance for the study was 0.05. The pre- and post-course survey scores were analyzed using a two-tailed, dependent t-test. The knowledge effect was statistically significant, t (44) = 2.015, and p = 0.3.03E-09, at an alpha level of 0.05. The skill effect also was statistically significantly, t (44) = 2.015, and p = 1.8E-05, at an alpha level of 0.05. Likewise, the attitude effect was statistically significant, t (44) = 2.015, and p = 0.0003, at an alpha level of 0.05.

Further descriptive statistical analysis was performed using a Cohen's d to determine the effect size of the e-Learning, interactive course on participants' knowledge, skills, and attitudes. In regard to knowledge, Cohen's d = 1.19, which indicated a large impact of the e-Learning, interactive course on post-course survey scores. In regard to skill, Cohen's d = 0.78, which indicates a medium impact of the e-Learning, interactive course on post-test scores. Finally, in regard to attitude, Cohen's d = 0.67 which indicates a medium impact of the e-Learning, interactive course on post-test scores. Finally, in regard to attitude, Cohen's d = 0.67 which indicates a medium impact of the e-Learning, interactive course on post-survey scores (Fritz, Morris & Richler, 2012).

Follow-up surveys employed three months after completion of the e-Learning, interactive course were analyzed to determine whether the change in knowledge, skills and attitudes was sustained. Descriptive (see Table 1) and inferential analyses of the study sample were conducted comparing these results to the post-course surveys. Inferential statistics used included t-tests and Cohen's d. The level of significance for the study was 0.05. The post-course, follow-up survey scores were analyzed using a two-tailed, dependent t-test. The knowledge effect was statistically significant, t (12) = 2.18, and p = 0.02, at an alpha level of 0.05. However, the skill effect was not statistically significantly, t (12) = 2.18, and p = 0.17, at an alpha level of 0.05.

The post-course survey results were also analyzed utilizing descriptive statistics for the six items delineated in Table 2.

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Table 2. Descriptive Statistics for post-course survey items aligned with Kirkpatrick's Levels of Evaluation								
Kirkpatrick Level of Evaluation	Post-course survey item	Μ	SD	Ν				
Level 1 – Reaction	Satisfaction	4.53	0.63	45				
	Expectations	4.31	0.73	45				
	Relevancy	4.51	0.79	45				
	Engagement	4.27	0.91	45				
Level 2 – Learning	Confidence	4.33	0.74	45				
	Commitment	4.78	0.43	45				

Note: Note: M = mean. SD = standard deviation. N = sample size

DISCUSSION

To meet the threefold aim of this quality improvement project a supportive infrastructure and intentional educational culture to support an e-Learning program of faculty development was established at our nursing program. Regular and ongoing national faculty meetings, both onsite and virtual venues, were convened. A dedicated faculty portal web page was created to enable faculty from across all programs to access professional development resources. An advisory board was created to inform and sustain faculty development initiatives, and faculty leaders were united in ongoing virtual meetings to collaborate on teaching and learning issues, including socializing faculty, learning about available resources and support services, and establishing a collaborative vision in alignment with the strategic direction of the institution. In these monthly meetings, faculty leaders from across all campuses and programs meet to discuss emerging issues to support and enrich the life and work of faculty.

Following the development of a supportive infrastructure and culture to support teaching excellence, an e-Learning, interactive course using storytelling and reflective pedagogy was developed as an educational change strategy to lead and sustain transformation in teaching nursing. Findings suggest that the e-Learning, interactive course had positive impact on outcomes corresponding to Kirkpatrick's 4-level Model of evaluation of professional development effectiveness. Faculty participants reported satisfaction with the professional development program (level 1 outcomes), improved knowledge and skill acquisition (level 2 outcomes), and direct application of newly acquired instructional strategies and tools in practice at three months following course completion (level 3 outcomes). Results from implementation of this innovative course suggest that the process of storytelling and reflective pedagogy are effective for faculty to confront and resolve actual and desired teaching practices, and inspire faculty to be inquirers into their own teaching. Data revealed that faculty placed value on individual and collective reflection to facilitate self-awareness, question assumptions, and nurture ideas about personal and professional growth. Additionally, faculty participants report that using individual reflection enabled them to gain insights, expand perspectives, and plan actions to accomplish change.

These preliminary findings support previous research findings that structured, well-designed faculty development resources are well accepted by faculty and, importantly, catalyze transformation of teaching practice (Zheng, Bender, & Nadershahi, 2015). This quality improvement project contributes to literature in nursing and the health sciences regarding the capacity for faculty development to lead organizational change to transform teaching practice. Additionally, this project may provide guidance for other nursing and health science programs in designing and implementing innovative, e-Learning, interactive faculty development resources.

Limitations to the quality improvement project may impact findings. Although the initial sample size was 64 faculty participants, at the time of data analysis only 45 faculty participants were eligible to be evaluated for levels 1 and 2 of Kirkpatrick's Model, and only 31 faculty participants were eligible to be evaluated for level 3 outcomes. Of the 31 faculty participants eligible for inclusion in the three-month analysis, 13 faculty participants responded culminating in a 42% response rate. Despite the small sample size, a broad spectrum of nursing faculty were represented, including full-and part-time, graduate and undergraduate faculty. Additionally, this sample included faculty with a range of experience, from novice educators with less than two years of teaching to seasoned educators with more than 15 years of teaching. Another limitation is that level 4 outcomes were not analyzed at the time of data analysis. It is our plan to include analysis of End-of-Course Survey data for the courses taught by these participants to ascertain whether mission-critical outcomes were achieved. Indicators reviewed will include section mean course grade, section mean

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student satisfaction with the course, section mean student satisfaction with the faculty member, and the section mean student engagement index. This phase of evaluation aligns with Level 4 of Kirkpatrick's Model and will be implemented at the completion of the fiscal year in June, 2017.

IMPLICATIONS

Transformation must be the cornerstone of nursing and nursing education. Nurse educators must acquire needed teaching competencies to integrate current knowledge, trends, and technology advances into education (Felver et al., 2010; Forneris & Fey, 2016). Structured faculty development is essential not only to develop, use, and test innovative teaching methods, such as storytelling and reflective pedagogy, to enhance clinical and classroom teaching, but also to lead organizational change in response to calls for academic reform. Faculty developers bring stakeholders together to strategize and collaborate on an organizational level, while developing the capacity of individual faculty members in a supportive culture. Implications for nursing education include strong support for innovative faculty development using storytelling and reflective pedagogy to create sustainable change in nursing academia that is grounded in theory and data.

Further research is needed to evaluate the effectiveness of using storytelling and reflective pedagogy to transform nursing education. Nursing programs are challenged to take the next step in the journey toward better and more effective methods of teaching nursing. In this context of rapidly evolving change, innovative faculty development is no longer optional if nursing education is to thrive and adapt in response to an ever-changing health care landscape.

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