ORIGINAL RESEARCH

The enneagram model for nursing competencies development– An exploratory qualitative study

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ABSTRACT

Background and objective: Nursing competencies can be enhanced by the development of emotional intelligence, which promotes self-knowledge. Personality models, such as the Enneagram model, have been used to develop self-knowledge, and thus may contribute to increasing emotional intelligence. However, few studies have examined perceptions of the use of the Enneagram model on nursing competencies. This qualitative study aims to explore the perceptions of nursing educators and advanced practice nurses about the impact of Enneagram model training on the development of their professional competencies.

Methods: This qualitative study used individual interviews and thematic analysis according to Miles and Huberman’s method. The nine participants were nursing educators and advanced practice nurses. Interviews were conducted between six and eight weeks after the Enneagram model training.

Results: Results revealed that the Enneagram model may contribute to developing emotional intelligence. Participants perceived the Enneagram model training as promoting better self-awareness and understanding of others. It could also support the development of nursing competencies: humanistic action, collaboration, clinical leadership and support for learning in practice settings.

Conclusions: The use of the Enneagram model could help nurses develop their emotional intelligence and optimize their practice while preserving their mental health. Implications for Nursing Administration: These findings are important for managers responsible for supporting nurses’ competencies and mental health through complex care situations in a context of change.

Key Words: Nurse competence, Organizational change, Emotional intelligence, Enneagram model, Qualitative research, Mental well-being

1. INTRODUCTION

The healthcare system perpetually evolves and inevitably faces challenges due to the increasing complexity of care and reform.[1] These circumstances pose considerable challenges for nursing, therefore highlighting the importance of nursing practices to the quality and safety of care in the health system.[1–3]

Managers are responsible for supporting the development of nursing competencies to ensure quality of care. Their responsibilities involve creating, supporting and maintaining quality practice environments that are shared by "nurses, employers, regulatory bodies, professional associations, educational institutions, unions, health service delivery and accreditation organizations, governments and the public".[1] Employers as well as individual nurses, professional organizations, and...
other key stakeholders share a common responsibility toward the assurance of competence.\cite{4}

Furthermore, the practice of nursing competencies is associated with an improvement in nurses’ job satisfaction, nurse retention rate, and organizational sense.\cite{5,6} In addition, it contributes to a decrease in absenteeism from work.\cite{5} In fact, the deployment of nursing competencies contributes to improving the quality and safety of care.\cite{1,5,7,8,9} At the same time, it reduces health care costs and increase the efficiency of care.\cite{1,9}

While several models and training programs support the deployment of professional competencies through the development of emotional intelligence, the Enneagram model tends to emerge as a promising avenue.\cite{10} However, the use and impact of this model in the North American context are poorly documented, particularly in nursing. This qualitative study aims to explore the perceptions of nursing educators and advanced practice nurses regarding the quality, relevance, and impacts of the training of this model on the development and exercise of their professional competencies.

2. BACKGROUND

Although there has been confusion about the definition of nursing competencies in recent decades,\cite{11} professional organizations agree that competence refers to knowledge, competencies and judgment.\cite{4} The American Nurses Association defines competence as follows:

An expected level of performance that integrates knowledge, skills, abilities, and judgment. The integration of knowledge, skills, abilities, and judgment occur in formal, informal, and reflective learning experiences. [...] Competencies include communication, interpersonal, and problem solving.\cite{4}

The American Nurses Association Leadership Competency Framework\cite{4} highlights the importance of leading yourself, others and the organization. The nurse manager must, among other things, build interpersonal relationships with integrity, have self-awareness, communicate effectively, and can resolve conflicts. These elements can be optimized by the development of emotional intelligence.\cite{5,11,12}

In nursing, emotional intelligence can promote critical thinking skills,\cite{13} and the practice of nursing competencies, such as leadership,\cite{5,12,14} professionalism,\cite{15} interprofessional collaboration,\cite{16} support for learning and acting with humanism,\cite{12} In addition, it would provide transformational leadership that promotes effective teamwork and quality patient care.\cite{17} Although inconsistencies regarding emotional intelligence are reported in nursing practice, the literature raises four common attributes: self-awareness, self-management, social awareness and social/relationship management.\cite{18} The definition of Goleman\cite{19} was used in this research because it comes from the theory of emotional intelligence that has most influenced nursing research.\cite{2,12,20} According to Goleman,\cite{19} emotional intelligence is defined as the ability to recognize and advance the understanding of one’s own emotions and that of others, to manage them well towards oneself and others, and to motivate oneself and others towards a common goal.

Nursing competencies are believed to be greatly influenced not only by emotional intelligence, but also by personality traits.\cite{12,21,22} In this sense, to develop emotional intelligence, personality models can be used as an education strategy to acquire self-knowledge,\cite{12,23} because the development of emotional intelligence in nursing is considered as a process that can be learnt with effective education strategies.\cite{14}

The Enneagram model proposes a dynamic system of personality understanding that promotes introspection and self-knowledge.\cite{10} The literature on this model indirectly refers to the capacities underlying emotional intelligence mentioned by Goleman: development of self-awareness,\cite{10,24,25} self-management,\cite{26} relationship management and conflict resolution.\cite{10,27}

In the Western context, although the relevance of the Enneagram model to competency development has been raised across many disciplines, including management,\cite{10,24,25,28} counselling and psychology,\cite{29} psychiatry and behavioral sciences,\cite{30} education,\cite{10,31} social work,\cite{10} psychotherapy,\cite{10} and medicine,\cite{32,33} few studies have been conducted in nursing.\cite{34,35} Indeed, the majority of these have been carried out particularly with a student population in South Korea.\cite{36-41} These quantitative research studies show that a training program on this model reduces anxiety,\cite{39} while improving self-awareness,\cite{37,41} self-acceptance,\cite{38} communication,\cite{41} interpersonal relationships,\cite{37,41} and self-leadership.\cite{37} To our knowledge, no qualitative research has been conducted on a training program based on the Enneagram model in a western context. In response to the demand from healthcare settings in the Quebec (Canada) health network for training to support the competencies of nursing educators and advanced practice nurses, a French-language training program was developed by the researcher and delivered in institutions that have expressed the need. The training was based on a rigorous literature review as suggested by the Medical Research Council.\cite{42} For feasibility, the training of this study had to be limited to one day (seven hours). The pedagogical strategies used were presentation, group
discussion and dyad exercises. The training was pilot-tested
three times in terms of rigorous study, training content and
pedagogical strategies.[35]

3. Method

3.1 Sample

The sample consisted of nine participants assuming the role
of nursing educators or advanced practice nurses working in
one Canadian Integrated University Centre for Health and
Social Services. They were aged between 34 and 63 (average:
51 years). On average, they had 26 years of practice as
nurses (standard deviation = 9.7) and seven years of practice
as nursing educators and advanced practice nurses (stan-
dard deviation = 3.3) in geriatrics, psychiatry, surgery, and
medicine. Two participants had obtained a graduate degree
in nursing and seven have a bachelor’s degree in nursing.
Their main functions were orientation of new employees,
clinical coaching, competency assessment, coaching staff
with competency difficulties, design, updating and training
of caregivers. In addition, no participant had any prior knowl-
dge of the Enneagram model.

3.2 Data collection

The development of the Enneagram training followed the rec-
ommendation of the Medical Research Council.[42] A review
of the literature provided relevant information to develop the
Enneagram training. In nursing, the duration of the training
varied between 16 and 38 hours: e.g., 24h,[37] 16 hours,[41]
and 38 hours.[38] It would have been appropriate to provide
training for at least 16 hours. However, for feasibility in the
clinical settings, the training duration had to be limited to a
one-day training session (7 hours). Once the training was
developed, it was pilot-tested three times in order to resolve
potential difficulties, in terms of both the content and the
TEACHING strategies. The training included two modules of
three and a half hours each (e.g., self-knowledge and leader-
ship, using the Enneagram model), followed by four capsules
sent by email approximately nine days apart following the
initial seven-hour training.

Between six and eight weeks after the training, participants
were interviewed for a semi-structured one-on-one interview
using an interview guide,[43] recorded on digital audio tape.
The duration of the interviews was between 19 minutes and
102 minutes (mean = 62 minutes, standard deviation = 28
minutes). A socio-demographic survey was completed at the
beginning of the interview. The interviews were conducted
from April to May 2017.

3.3 Data analysis

The data analysis method was performed according to the
method developed by Miles and Huberman.[44] The record-
ings of the interviews were transcribed verbatim, ensuring
that everything had been proofread. During the data conden-
sation,[44] the first interview was completely counter-coded
by two supervisors to validate the principal researcher’s
coding. An interjudge agreement rate of about 80% was
achieved. Regular discussions were held between the re-
searcher and the supervisors to validate the codes used. The
QDA-Minor software was used to codify and manage data.
The thematic analysis was done after the simple coding and
the data reduction work.[44] Three themes were identified:
"training", "training impact" and "network transformation".
The "training" code includes positive and negative aspects,
and suggestions for content and format. The "training im-
pact" code implies professional impacts related to profes-
sional competencies and personal impacts. Finally, the "net-
work transformation" code was associated with data related
to the impacts of the network transformation and the rele-
ance of the Enneagram model in this context. Then, the data
presentation steps[44] were performed to order information
into tabular matrices, therefore providing a visual represen-
tation for analysis. For example, tables were used to qualify
whether participants perceived that the model could promote
the development of a skill, or that the model promoted the
development of that skill. Finally, the researcher remained
open to the emergence of unexpected conclusions through-
out the process,[46] while reflecting, discussing and verifying
codes and themes with the supervisors.

3.4 Quality assurance

For the credibility criterion,[44] the use of the verbatim tran-
scription clearly demonstrated that the analysis was derived
from the participants. The principal researcher documented
in her journal her impressions and preconceptions, to discuss
them with her research supervisors in order to avoid bias.
The logbook[45] contained the principal researcher’s reflec-
tions using analytic memos on the researcher’s methodology,
thoughts, reflections, impressions and preconceptions. To
meet the reliability criterion,[46] the logbook enabled the re-
searcher to document the methodology,[47] theoretical notes
and personal notes.[45] For the transferability of the results,
a comprehensive description of the context, process and
content[46] was recorded in the logbook. Finally, for the con-
firmation criterion,[48] the data collected were classified by
data collection method and by chronology.

3.5 Ethical consideration

This project was approved by the ethics committees of the
health organizations in which the research was conducted.
and by the University of Montreal. The participants completed a consent form. Furthermore, if participants had felt negative emotions during the research process, they could have been referred to the Employee Assistance Program (n = 0). No participants needed to use this support during the study.

4. RESULTS
This exploratory study showed that this model could support the development of several nursing skills, including humanism, collaboration, clinical leadership and education in clinical settings.

4.1 Self-awareness and knowledge of others

4.1.1 Self-awareness
All participants (9/9) affirmed that the Enneagram is a model that can allow self-awareness. Furthermore, a majority of participants (7/9) noted that the Enneagram model prompted a reflection on their personality. One of them said: “I discovered things about myself [...] It opened my eyes to the fact that we all really have a different personality type and that we have to adjust to different personalities” (P9). Regarding emotional self-awareness, most participants (6/9) expressed that they had a better understanding of their emotions following the training and that it was the “beginning of a process” (P5) of introspection. Some (2/9) mentioned they have better understanding of their anger and wanted to be able to understand it better to maintain harmonious relationships with their colleagues. In addition, through the context of health network transformation, many (4/9) said that the model could help them manage the emotions related to the impacts of transformation, including “frustration”, as well as better understanding of themselves and connecting with their motivation, by finding meaning in their work (P1, P4, P9).

4.1.2 Knowledge of others
Participants pointed out that learning about personality types reminded them of the importance of a personalized interpersonal approach (9/9) and not a “one size fits all” method (P1, P7, P9). Most participants (7/9) used the Enneagram model with their families to better understand conflict situations, their dynamics and their needs. Also, many (5/9) mentioned better understanding the emotions of their family members: “I was surprised during the class. I started thinking: “My God, that’s where I saw my daughter and I’ve never seen her on that side” (P2).

4.2 Humanistic nursing competencies
The results of this research indicate that training on the Enneagram model could support the development of several nursing competencies:

4.2.1 Leadership
All participants (9/9) perceived that the model could support their leadership development, particularly to influence positively organizational stakeholders:

It [the Enneagram model] can help in, yes, in this context of health organization transformation [...] it would be nice to be able to identify a little more the type of personality of people and if they are less open to change, to be able to influence them and have them on your team so that it is a win-win situation. (P5)

In this regard, some point to the loss of leadership (3/9), which is an important consequence of the transformation of the health network leading to “frustration” among nursing educators and bedside nurses (P1, P8, P9) who no longer feel they are providing the best quality of care to patients. Two of these three participants pointed out that this model would be particularly relevant for the manager’s leadership. Another participant also explained the relevance of the model in the context of change:

In these big reorganizations, sometimes the meaning of our work is a little bit lost. To be able to convince the person of his or her sense of work, you must go and see in his or her personality what is important to him or her. (P2)

4.2.2 Interprofessional collaboration
A large majority of participants recognized the relevance of the Enneagram model for interprofessional collaboration (9/9). More specifically, most participants (8/9) mentioned that this could help them to better interact in interprofessional and intraprofessional collaboration, due to significant organizational instabilities and changes. They specified that they must interact with new colleagues by being in new teams and that the Enneagram model allows them to identify their personality more quickly to have relationships. At this point, one third of the participants (3/9) reported using the model with co-workers and had a positive impact on interprofessional collaboration.

In addition, almost half of the participants (4/9) reported that they improved their leadership following the training. For example, one of them claimed to have had an influence on a guidance nurse through the identification of her safety needs. She then said she was better able to exercise her leadership through more open and empathetic communication when supervising this nurse. Other participants (2/9) mentioned it as a potential application to improve interprofessional communication and leadership among nurses working with an
orderly and nursing assistant: “Yes, yes, it would be relevant [to learn the Enneagram model] […] to mobilize their team, increase communication with their team and precisely lead their team” (P9). Regarding conflict management, a few participants (3/9) explained that they used the Enneagram model to analyze a conflict situation.

4.2.3 Support for the learning of the nurse

All participants (9/9) said that the Enneagram model could help support the learning of novice nurses. Several participants (6/9) reported that, following the training, they further analyzed their approach to supporting learning: “When I have difficulties or when it doesn’t ‘fit’, when I would like to know why it doesn’t ‘do’ so that I can be a caregiver. […] My role is to supervise and help develop them in my profession” (P4). Two suggested that the Enneagram model be taught to nursing students: “As a teacher, I think it is important to get students to know the Enneagram so that they know their personality type […] to get to know each other better and to better direct their careers” (P3). Finally, one participant suggested that this model be used by managers, particularly in the context of health system transformation, to ensure a more constructive and humane follow-up of competencies with individuals: “I think it would allow them to better motivate them [nurses] and make this experience more constructive, I think it would be even more relevant for nursing advisors and managers” (P9).

5. Discussion

5.1 Collaboration

In the health care context of perpetual and inevitable challenges, the findings and results of this research show that the Enneagram model could help nurse educators and advanced practice nurses to better collaborate in teamwork, due to instabilities and significant organizational changes. The results tend to demonstrate the relevance of the Enneagram model to promote intra-professional collaboration. The results are consistent with Ball’s findings[34] that the Enneagram model can help resolve conflicts between nurses to ensure a cohesive care team with the goal of providing optimal quality of care. In the same way, a training program based on the Enneagram model can promote the development of communication[41] and interpersonal relationships[37, 41] through a better understanding of self and emotions. Being emotionally self-aware promotes an effective emotional regulation by identifying negative emotions, regulating them and not “contaminating” the team with them. Emotional intelligence and the management of one’s own emotions would also allow team members to be more open to the views of their colleagues in a problem and conflict resolution process, thus improving team performance.[49] To support interprofessional collaboration, training in the Enneagram model could be relevant to all health professionals such as managers, nurses and nursing students.

5.2 Implications for novice nurses

Furthermore, the results indicate that the Enneagram model could help experienced nurses support the learning of novice nurses. At this point, nurses in the role of educating students would greatly need to develop their emotional intelligence to better support learning.[50] This model could help increase effective and empathic communication between novice nurses and managers. At this point, newly graduated nurses reported that they were often verbally abused by experienced senior nurses, physicians, residents and paramedical teams, without managers addressing these issues, resulting in disillusionment, resentment and moral distress among the next generation of nurses.[51] To support novice nurses, an Enneagram model training could be an innovative education strategy to develop harmonious working relationships,[52, 53] because the relationship between the novice nurse and the experienced nurse or manager should be more collaborative than hierarchical in nature, particularly in nursing.[51] Enneagram training during the initial formation in nursing (e.g., College and University) and at the beginning of the nursing career could be relevant to develop self-knowledge and confidence. Administrators, managers and educators should implement a preceptor program to increase retention of new graduate nurses.[54, 55] The results of the present research indicate the relevance to include an Enneagram model training in a preceptor program to promote harmonious communication between nurses and managers, therefore building a relationship of trust. While managers carry out administrative tasks, such as scheduling and labor replacement, they could benefit from the advantages of the Enneagram model, making them more accessible as a result of greater sensitivity to their own emotions and those of others.

5.3 Mental health of nurses

In terms of self-awareness impact, participants recognized that better self-awareness through the Enneagram model could help them to better understand themselves and their motivations, by making sense of their work and better regulating their emotions related to the impacts of the transformation of the health network. Organizational transformation contexts can undermine nurses’ mental health.[56, 57] In addition, all health professionals may be at risk of burnout and compassion fatigue at some point in their careers.[58, 59] Professionals with developed emotional intelligence would be less at risk of burnout, such as physicians,[60] and nurses.[61]

In this context, all health professionals could benefit from
training on the Enneagram model to promote the development of emotional intelligence and thus prevent burnout. However, further research would be required to evaluate the effects of the Enneagram model on teamwork, performance, mental health of professionals and quality of care.

5.4 Limitations
Our study does not provide information about how newly qualified nurses or advanced beginners experience complex nursing care situations. Although the results of this study are not generalizable beyond the immediate setting due to a small sample size in one Canadian city, these results highlight the potential of the Enneagram model. Another limitation is that the training and the interviews were performed by the principal researcher, thus causing potential biases, such as a social desirability bias in participants. To reduce bias, the principal researcher documented in her journal her impressions and preconceptions, to discuss them with her research supervisors. The journal was used to foster reflexivity and self-awareness from the principal researcher.

5.5 Implications for nursing administration and recommendations
To provide quality and safety care, managers have a key role in supporting employees through organizational transformation contexts by encouraging the optimal exercise of nurses’ competencies. This research provided results on the potential of the Enneagram model to develop leadership, interprofessional collaboration and support for learning through better self-awareness and understanding of others, among nurses, nursing educators, advanced practice nurses, preceptors and employees. The results of this research showed that the Enneagram model could be used in nursing management.

Finally, the results indicate the potential of the Enneagram model to help nurses adapt to change by promoting their mental health through self-awareness in a challenging and complex context of care. While the mental health of professionals and the novice nurses is compromised, it is more relevant to promote the development of emotional intelligence supporting the well-being of professionals, stress management, staff retention, reduced absences due to illness, and beneficial effects for patients.[62,63] In order to prevent burnout, it would be desirable to offer training on the Enneagram model to nurses and managers.

5.6 Future Research
The results of this research suggest several implications for future research. The first implication to be drawn is that the development of emotional intelligence using the Enneagram model was perceived as relevant among nurses in the ever-changing context of the healthcare system. Second, nurses, regardless of their level of education and credentials, could benefit from Enneagram model training to optimize their competencies and ensure the maintenance of their mental health and well-being. Future research is needed to understand, support and document the impacts of the Enneagram model in healthcare education, thus leading to evidence-based knowledge regarding its use.

6. Conclusion
This qualitative study aimed to explore the perceptions of nursing educators and advanced practice nurses about the quality, relevance, and impact of Enneagram training on the development and exercise of their professional skills. The results indicate that Enneagram training may foster better self-awareness and understanding of others, therefore supporting the development of several nursing skills for nurses and managers.

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Conflicts of Interest Disclosure
The Authors declare that there was no conflict of interest during the research. The first author offered training sessions on the Enneagram model for Quebec associations and hospitals from 2017 to 2019.

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