Development and Evaluation of Reflective Program Using Concept mapping for Clinical Nurses

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Introduction

- Using concept mapping strategies have been used to help student nurses to achieve desired nursing competency, but their effectiveness has not been examined for clinical nurses.
- Adults learn effectively through using their own experiences and knowledge(Mezirow, 1981), and reflection is important enhancing competency education method for nurses.
- Self-regulated learning theory(Kuiper, 1999) is composed of behaviral, environmental, and metacognitive self-regulation. These three components enhance self-regulated learning leading to improve interpretation, inference, explanation, and evaluation. In addition, self-regulated learning is a process of reflection.
- Concept mapping is a good reflecting method to show complicated situation like fever management of cancer patients. Thus, using concept mapping for reflecting nursing experiences based on self-regulated learning theory can improve their nursing competencies.

AIM

Develop a reflective program using concept mapping on clinical nurses.

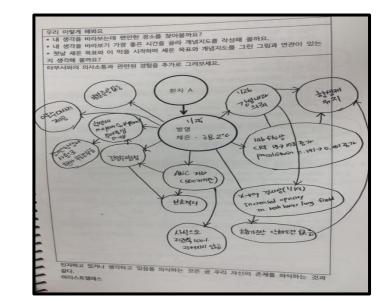
Evaluate the effect of a reflective program on competency of clinical nurses.

Methods

- Experimental research and comparisons within one group in different times using paired *t*-test were made. The same group did nothing for the first three weeks, and the group applied a reflective program for next three weeks.
- Each time had checked of nursing core competency scales(Lee et al, 2010) and reflective learning continuum score(Peltier, Hay & Drago, 2005).
- Nursing core competency scale has 5 domains and those are Human understanding and communication, Professional attitude, Critical Thinking, General nursing performance, and Special nursing performance. High score means having good nursing competency.
- Reflective learning continuum is presenting level of reflection. High score means high level of reflective learning.
- In 2015, total of 19 clinical nurses in two different hospital in Korea were participated.
- The reflective program was consulted by a professor in nursing, nurses, educators, and graduate students.

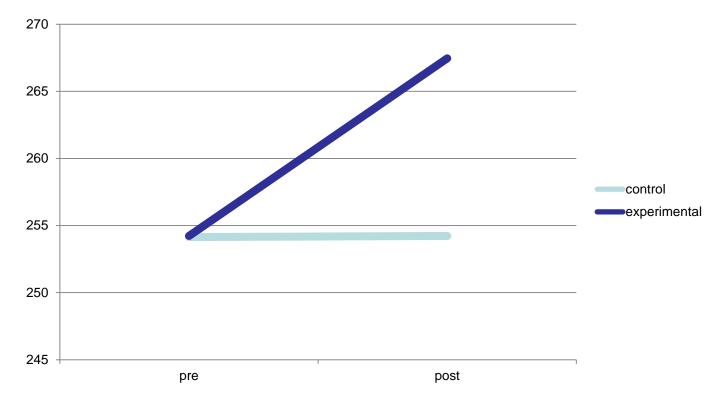
Reflective Program



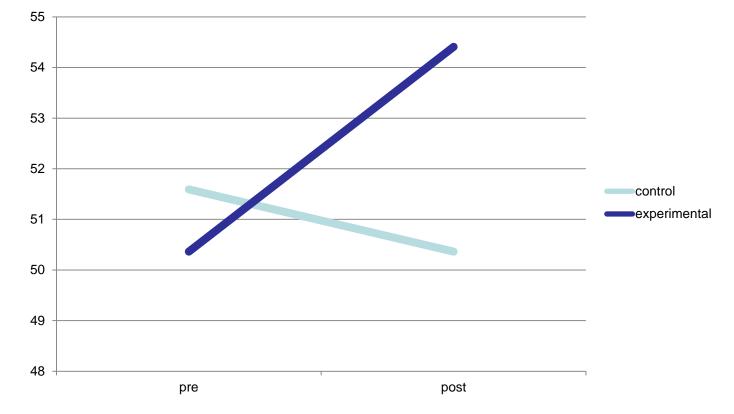


- Concept mapping + Reflection Diary
- 6 Episodes for 3 weeks
- Each episodes have goals based on self-regulated learning theory
- Episodes components: 1st-Finding own nursing pattern, 2nd-With coworkers, 3rd-Interacting with multidisciplinary teams, 4th-Making Rapport with patients and families, 5th-Finding new Information, 6th-Finishing
- Reflecting on one fever management of cancer patient after shift's over & sharing with colleagues
- Thinking every possible concept of the fever patients and drawing concept mapping freely
- Group mapping on 2nd reflecting episode
- Group mapping Using Ward Conference, Gathering individual into groups, Applying Concept mapping and Reflection diary
- Self-regulated learning related reflection diary questions

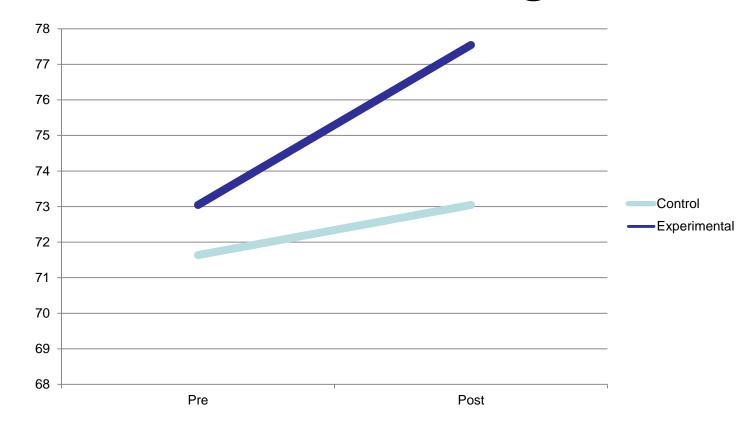
Outcomes Nursing Competency Score



Critical Thinking score



Reflective Learning score



Mean Difference

	t	p
Nursing Competency	2.139	.038*
Human Understanding and Communication	0.897	.375
Professional Attitude	1.292	.207
Critical Thinking	3.707	.001*
General Nursing Performance	1.19	.241
Special Nursing Performance	1.569	.124
Reflective learning	2.143	.038*

Conclusion

- Reflective program is composed of concept mapping and reflective diary using clinical experiences based on self-regulated learning theory.
- Reflective program using concept mapping is one way to improve nursing competencies and reflective learning for clinical nurses.
- The results indicate that concept mapping can be used as an educational method of increasing Critical Thinking skill for clinical nurses.
- This program can be implemented especially for nurses who have to adapt to a new ward as well as ward conference with case study.
- The reflective program using concept mapping is supposed to be continued with reflective program on clinical nurses for a long period of time.

Bibliography

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