

Application of Small Group Workshops and Case Report Discussion for Development in Evidence-based Practice Education Programs

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Introduction

Nowadays, evidence-based skill is the trend of every medical professions. The specialty of nursing profession is shown the connection of theory and practice.

- Nurses have been trained to prepare the ability of critical thinking and literature reading.



- The purpose of this study was to investigate the effect of advanced evidence-based nursing (EBN) education in small group workshops and report discussion on case scenarios.



Methods

- The study was planned 14 hours evidence-based practice (EBP) education programs which introduced the advanced evidence-based nursing.
- There were 16 nurses recruited and all of them had completed those training programs.



Table 1. Demographic data

(N= 16)

Variable	Categories	n (%)
Nursing Clinical Ladder	N3	3 (18.8)
	N4	13 (81.2)
Job Position	Registered nurse	2 (12.5)
	Team leader	3 (18.8)
	Associate Head Nurse	5 (31.3)
	Head nurse	6 (37.5)
Education Level	University	11 (68.8)
	Master	5(31.2)



Basic EBN learning modules (18 hours)

1. Evidence-based nursing knowledge
2. Literature search skill
3. Research methodology and level of evidence
4. Statistic knowledge
5. Critical appraisal
6. Group demonstrated the outcome



- Most of them were senior nurses with the following characteristics, including problem identification on clinical situations, choice of appropriate resources, critical appraisal skills and synthesis of findings.
- EBN tutors using the problem-based learning (PBL) teaching strategy in education programs and lead practice in small groups
- Participants were required to deliver group presentation of outcomes after every training program.



Advanced EBP learning modules (14 hours)

1. Problem identification on clinical situations, choice of appropriate resources
2. Critical appraisal skills and synthesis of findings
3. Small groups and group presentation of outcomes after every training program
4. Develop the nursing practice standards



EBN tutors lead the practice in small groups and case report discussion



Group presentation of outcomes



CINAHL professional organization and facilitates academic communication



- Participates' self-report learning effect in questionnaire and evaluation of EBN tutors teaching competencies were conducted in each time after the training course.
- Participants were required to develop the clinical standards.



Instrument

- Problem-based learning questionnaires (Shiau, et al., 2008) were administered to the participated 16 nurses each time after the training course, including the EBN tutors assessment questionnaire, self-assessment and peer-assessment questionnaire.
- **Participant assessment questionnaire for EBN tutors**
 - Six domains: Knowledge, communication skill, data gathering, problem synthesis, critical thinking, organization
 - Score range: 8-9 (High) , 7-8 (Average) , and 6-7 (Low) .



- **Self-assessment and peer-assessment questionnaire**

- Mainly from the self-evaluation of the performance in the group by the participants.
- Participants also need to have mutual evaluation of each member's performance
- Score range: 8-9 (High) , 7-8 (Average) , and 6-7 (Low) .

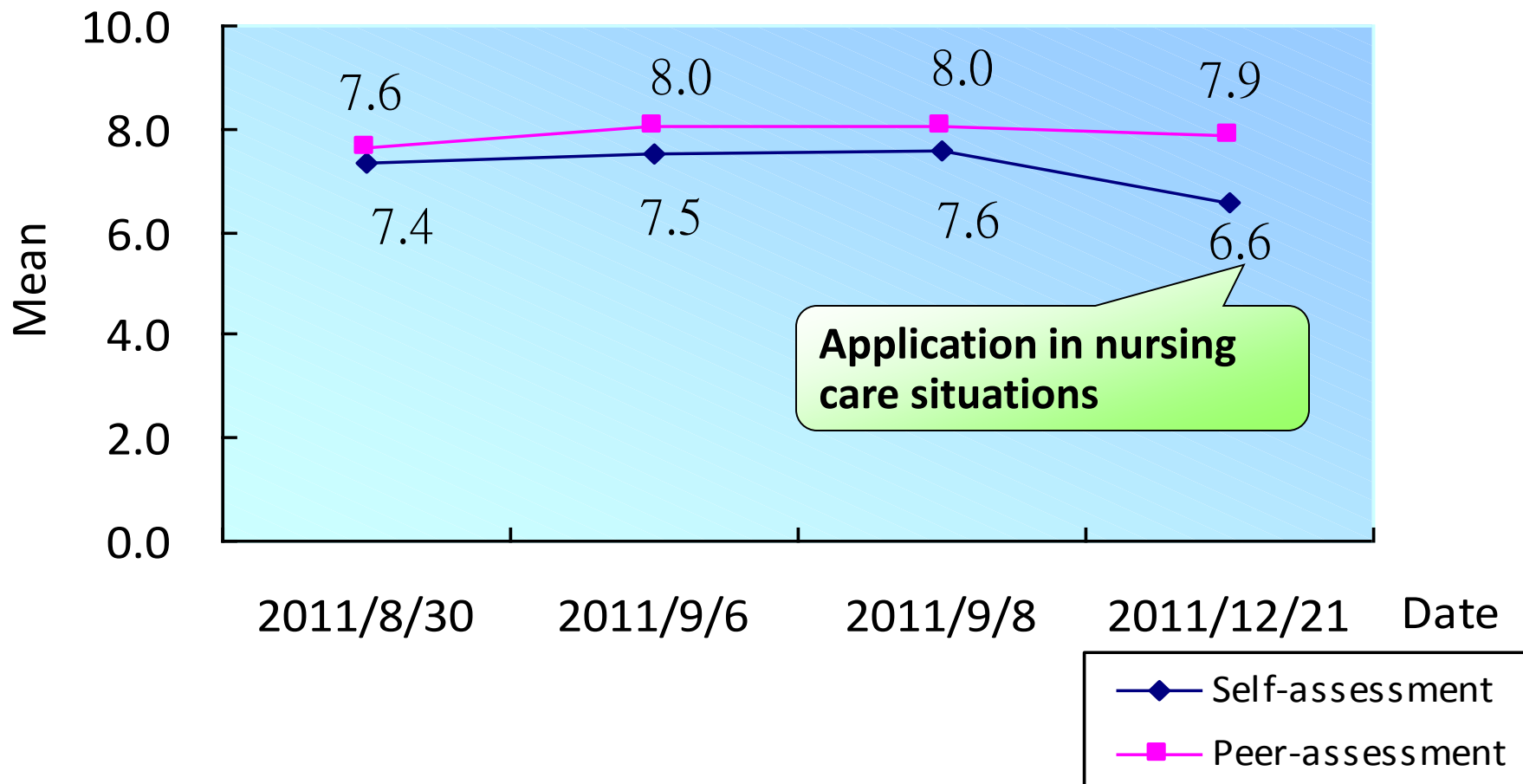


Results

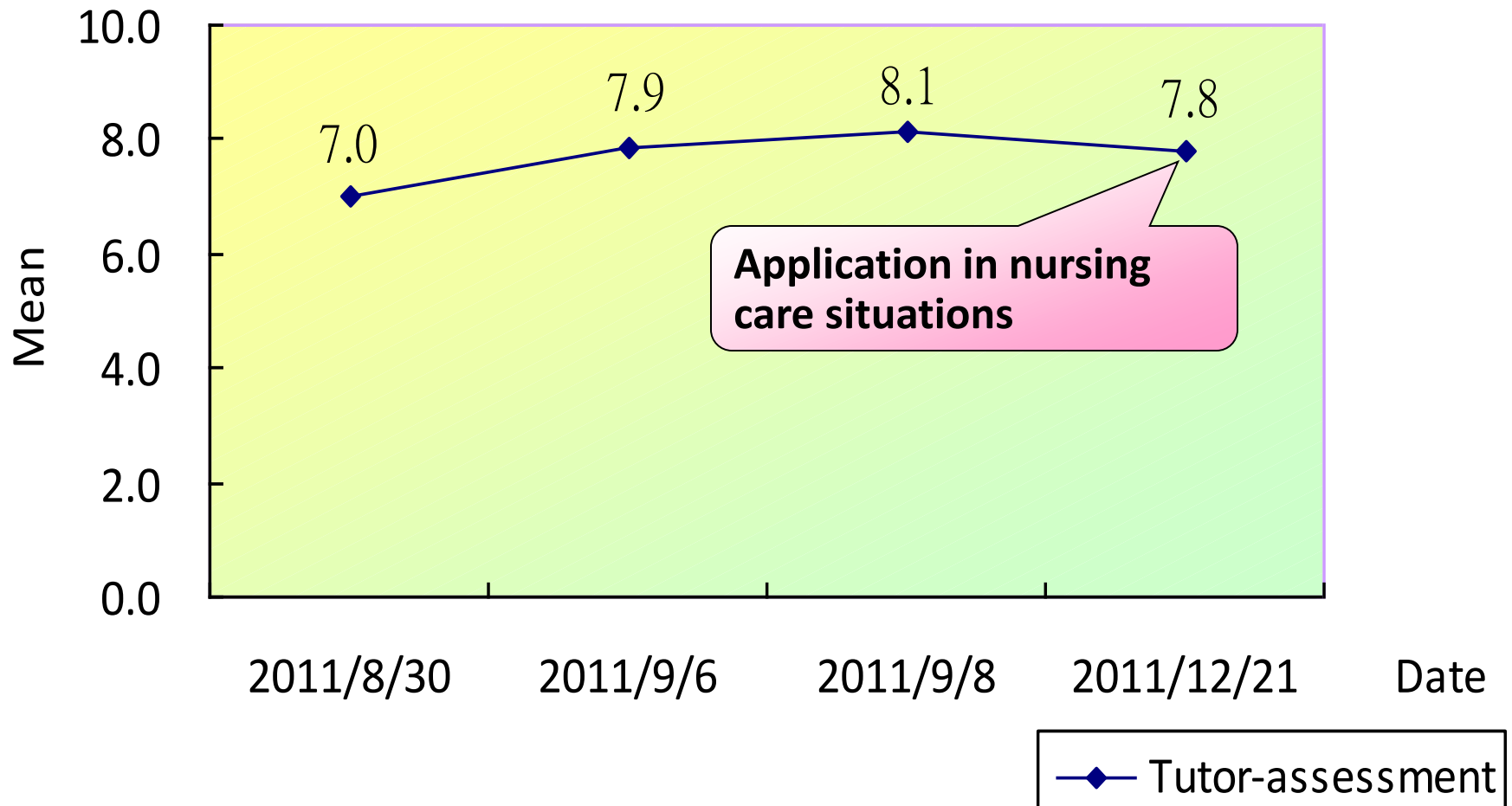
- The results showed that the nurses' competences in EBP improved the nursing practice.
- Another finding was that even with EBP outcomes, the nurses still lacked of confidence to apply at work.
- To build confidence was the goal to accomplish the advanced EBP workshop at the current stage.



Self-assessment and peer-assessment



EBN tutor-assessment



Develop 4 EBP programs

- The effectiveness of abdominal massage in relieving constipation
- The effectiveness of music therapy on improving physiological index responses of ICU patients
- Applying evidence-based medicine for investigating the pertinent effects of regularly replacing peripheral venous indwelling needles (PVIN) in ENT Department patients every 72 or 96 hours
- Applying evidence-based medicine for reduction dermatitis of targeted chemotherapy patients



Conclusion

- EBP is an exclusive policy in nursing profession. That can reinforce the critical thinking and ability in clinical care practices.
- Eventually, nursing quality has upgraded and achieve the expectation.



Thanks for your attention!

