

Faculty of Health Sciences

SELF-ASSESSMENT OF PROBLEM-BASED LEARNING BY NURSING STUDENTS

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Introduction

- Changes in nursing require from nurses independence and the ability to take appropriate decisions (Billings & Halstead, 2009).
- ➢One of the objectives of nursing education is also to reduce the gap between theoretical concept and nursing practice (Tiwari et al., 2006; Etheridge, 2007).



Introduction

Problem-based learning represents an educational paradigm from traditional to studentoriented teaching and learning.





Introduction

Learning based on problem solving develops:

- Communication skills
- Problem solving skills
- Teamwork skills
- Leadership skills
- Integration into the clinical environment



The aim and hypothesis

The purpose of the study was to determine how nursing students are satisfied with problem-based learning.

H1: Part-time students of nursing are more satisfied with problem-based learning than full-time students.

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Methods

- Quantitative research methodology.
- Structured questionnaire (Yuan et al., 2011) 20 items
- 5 dimensions (construction of professional knowledge, development of problem-solving skills, development of self-directed learning, improvement of motivation, promotion of effective group collaboration).
- 5-point Likert scale
- > Cronbach α = 0.953.
- descriptive statistics, t-test and correlation analysis

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Sample

- ➢ 196 nursing students
- > 101 (51%) first year; 92 (47%) second year
- > 146 (74%) full time; 47 (26%) part time
- 18 (9 %) employed in the healthcare sector, 176 (90 %) were not



Results

Problem based learning evaluation	x	SD
Construction of professional knowledge	4,36	0,56
Development of problem-solving skills	4,3	0,69
Development of self-directed learning	4,26	0,69
Improvement of motivation	4,26	0,71
Promotion of effective group collaboration	4,42	0,65
TOTAL	4,29	0,57



T-test

Problem based learning evaluation	t	р
Construction of professional knowledge	-1.194	0.234
Development of problem-solving skills	-1.010	0.314
Development of self-directed learning	-0.418	0.676
Improvement of motivation	-1.605	0.110
Promotion of effective group collaboration	-0.384	0.701
TOTAL	-0.818	0.414



T-test

Problem based learning evaluation	t	р
Construction of professional knowledge	2.180	0.52
Development of problem-solving skills	2.197	0.029
Development of self-directed learning	4.443	<0.001
Improvement of motivation	1.493	0.121
Promotion of effective group collaboration	1.699	0.91
TOTAL	2.377	0.018



t-test and correlation analysis

Variables	n (%)	\overline{x}	р
Gender			
Male	22 (11.2)	4.32	p=0.998*
Female	174 (88.8)	4.32	
Study type			
Full-time	146 (74.5)	4.29	p=0.414*
Part-time	47 (25.5)	4.38	
Healthcare			
employment status			
Yes	18 (9.3)	4.62	p=0.018*
No	176 (90.7)	4.28	
Age			
Minimum	19	4.23	p=0.006**
Maximum	42	4.90	
Average age	21.2		

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Discussion

- > Average values are high (4.26 from 5).
- Students recognize: effective learning, active cooperation, team-work, improvement of communication skills, identify own learning needs, transfer of theoretical knowledge in nursing practice).
- Students' difficulties are: lack of knowledge and information, difficulty in finding literature, noncooperation or not-equal cooperation, selection of students in a group.



Problem based learning promotes independent and individual learning, group work, improves motivation and communication skills.

The Problem-Based Learning Cycle





Thank you for your attention