Background

According to the National Statistical Office (NSO), there are the number of women breast cancer in 2009 for 177 people in their 20s and 6,848 people in their 30s~40s per 100,000 population in Korea.

Purpose

The purpose of this study was to determine the effectiveness of hand-on training using the model of breast on the knowledge and skills of breast self examination and to utilize the nursing interventions for the prevention of breast cancer

Methods

Study Design

This study was a pretest-posttest design with a non equivalent quasiexperiment group.

Participants

>75 participants who are university students

- 38 for experimental group and 37 for control group
- Don't have breast disease
- No experience about breast self exam.

Data collection

The training of breast self examination using the model of breast was provided for the experimental group and the training of breast self examination with the brochure was provided for the control group. The data collection was carried out from Oct 27 to Dec 12, 2012

Instruments

Background characteristics of participants were measured using questions on age, BMI, intake oral contraceptive, experience of hormone therapy, experience of breast exam, family history, early examination, plan of self examination and menstrual cycle.

Knowledge score of self breast examination were measured by 11 screening questionnaire.

> Skill score of self breast examination assessment tool consisted of 11 items (palpation method, screening direction, procedure etc.).

Data analysis

Data were analyzed using paired t-test. To explore the difference of the effectiveness of hand-on training using the model of breast on the knowledge and skills of breast self examination.

An Effect of hand-on training for Female University students using the model of breast on the knowledge and techniques of breast self examination.

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Results

Checking the change of knowledge about breast self examination after the intervention, the experimental group using the model of breast increased to 1.92±1.83, the control group using brochure increased to 0.97±2.70, and there was no significant difference between the two groups (p=.079). As a result of the analysis of technical aspects' change about breast self examination after the intervention, the experimental group using the model of breast increased to 3.65±2.71, the control group providing brochure only increased to 1.78±3.32, and there was a significant difference between the two groups (p=.009).

Table 1. Demographic characteristics of the experimental and control group

variable		Exp(n=38) n(%) Mean± SD	Con(n=37) n(%) Mean±SD	x or t	р
age		19.78± 1.29	20.24±1.57	-1.332	.176
BMI		20.40± 2.20	20.42±2.30	-0.054	.626
Oral contraceptive	yes	7(18.4)	2(5.4)	2.007	
	no	31(81.6)	35(94.6)		.083
Hormone therapy	yes	1(2.6)	1(2.7)		000
	no	37(97.4)	36(97.3)		.000
Breast disease	yes	0(0)	3(8.1)		070
	no	38(100)	34(91.9)		.073
Family history	yes	3(7.9)	4(10.9)	0 1 0 0	
	no	35(92.1)	33(89.1)		.664
Early exam.	yes	12(31.6)	5(13.5)		
	no	26(68.4)	32(86.5)		.062
Plan of self exam.	yes	32(84.2)	28(75.7)		
	no	6(15.8)	9(24.3)		.356
Menstrual cycle		29.30(5.7)	31.21(8.83)	-1.091	.279

Table 2. Comparison of knowledge scores: Pre-post difference between experimental and control group

Knowledge	pre	post	Pre-post	+	'n
score	Mean±SD	Mean±SD	Mean±SD	l	р
Exp.	7.02±1.44	8.94± 7.64	1.92±1.83	1 701	070
Cont.	6.67±1.85	7.64±1.67	.97±2.70	1./ð1	.079

and control group

Knowledge	pre	post	Pre-post	+	р
score	Mean±SD	Mean±SD	Mean±SD	l	
Exp.	6.26 ± 2.48	9.92 ± 0.85	3.65 ± 2.71		.009
Cont.	6.64 ± 2.69	8.43±1.67	1.78 ± 3.32	$^{-}2.67$	

Conclusions

The hand-on training using the model of breast increases the techniques of breast self examination significantly than the training with only a simple brochure, thus, the training of self examination for prevention of breast cancer needs to go hand in hand with the hand-on training using the model.







Table3. Comparison of skill scores: Pre-post difference between experimental