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Nursing Students' Knowledge on Breast Cancer

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ARTICLE INFO	ABSTRACT
Article history:	Background: Breast cancer is the most common type of
DOI:	cancer in women and is one of the main causes of cancer death in women throughout the world. Around 9-8% of
Submitted:	women have the potential to experience breast cancer. It is estimated that there are 100 new sufferers per 100,000
November 1, 2023	population every year in Indonesia. The prevalence of
	cancer in Indonesia is 1.4 per 1000 population and
Accepted:	increases with age. Breast cancer contributes 30% and is
November 30, 2023	the most common type of cancer in Indonesia. Methods: The research method employed was quasi-
	experimental with a pre-posttest without control group
Published:	design. Total sampling was used to collect samples. The
December 26, 2023	data was evaluated using the paired t test. Results: The study showed significant differences in
Keywords:	nursing students' knowledge of breast cancer before and
Breast cancer; Nursing student;	after they received the self-paced module (p value 0.000).
Knowledge	Conclusion: The self-paced module can help students
Kilowiedge	learn more about breast cancer. There is need for various
	approaches of educating nursing students about breast
	cancer as well as the students' ease of access to resources for breast cancer information.

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Background.

One of the leading causes of cancerrelated mortality for women worldwide, breast cancer is the most prevalent type of cancer in women (Khiyali, Aliyan, Kashfi, Mansourian & Jeihooni, 2017). According to WHO (2012), breast cancer may affect 9–8% of women. In Indonesia, the annual rate of new cases per 100,000 people is estimated to be 100. According to data from the Ministry of Health of the Republic of Indonesia (2015), the incidence of cancer in Indonesia is 1.4 per 1000 people and rises with age. As the most prevalent disease in Indonesia, breast cancer accounts for 30% of all cancer cases (Ministry of Health of the Republic of Indonesia, 2018).

Nonetheless, women continue to have a low awareness about breast cancer. Women's low awareness of breast cancer can be attributed to a number of factors, including low practice of breast self-examination and ignorance of the dangers, symptoms, and signs (Tazhibi & Feizi, 2014). According to the findings of the study, women's knowledge about breast cancer is still lacking, including understanding of breasts, signs and symptoms, and risk factors (Alwan, Al-Attar, Eliessa, Madfaie, & Tawfeeq, 2012).

Breast cancer can be diagnosed early with screening techniques such as breast self-examination (BSE). The BSE examination is simple, and any woman can pass it on her own. This is significant since about 85% of breast abnormalities are detected by patients adequate breast through selfexamination. In reality, breast selfexamination (BSE) is still uncommon, with 89.1% of participants having never performed BSE (Oluwatosin & Oladepo, 2006). As a result, there is a need for a program to educate women about breast cancer.

Methods

The research design was quasiexperimental using a pre-posttest without a control group. The study's population comprised of all first-year female students who had not completed cancer-related breast subject Program Studi DIII at Keperawatan Purwokerto Poltekkes Kemenkes Semarang Indonesia. To obtain samples, total sampling was employed. A questionnaire was used in this study to assess the level of cancer knowledge and breast self-examination. Data was obtained before and after the participants completed a self-paced breast cancer module. The paired *t* test was used to analyze the data.

Result and Discussion

This study included a total of 151 female students with an average age of 20.5 years. The frequency distribution of participants' knowledge about breast cancer before and after education may be observed in the table below:

Table 1. Distribution of participants' knowledge

Breast	Pre	Post
Cancer Knowledge	(%)	(%)
Good	20	43.3
Sufficient	70	56.7
Poor	10	0
Total	100	100

According to table 1, the respondent's level of knowledge is "sufficient" both before and after educated with the self-paced module. However, after completing the self-paced module, there was an increase in the percentage of "good" and "sufficient" knowledge levels, with no "poor" knowledge level. Statistical tests demonstrate a substantial change in female students' knowledge about breast cancer before and after completing the self-paced program (p=0.000). Previous research results support the findings of this study.

Prior research findings reveal that selfmodule learning increase nurses knowledge and practice. A self-paced learning module is a well-organized set of instructions meant to help the learner master a body of knowledge or a practice. The findings of Mohamed and Ibrahim (2021) research reveal that there was a substantial beneficial association between nurses' knowledge and practice after using self-learning module. Another study found a substantial difference in clinical competence between the control and intervention groups after receiving a self-learning module (Tohidi, Moonaghi, Shayan & Ahmadinia, 2019). Bautista (2015) emphasize that self-paced learning improves student performance and is a great tool for improving classroom teaching.

Chen (2022) Furthermore, et al discovered self-management education online, and the learning module showed substantial impacts on pain relief and colon irritation improvement in quality of syndrome at follow-up visits. life According to Saad and Srour (2019), the independent learning module had a positive influence on nurses' knowledge and safety practices, and that there was a very statistically significant difference in the total average score of nurses' knowledge and practice before and after implementing the self-learning module. Based on the findings of the research, it is possible to conclude that the self-paced provides participants with module beneficial outcomes.

The ability for students to move through the content at their own speed is one of the primary benefits of self-paced learning. Since not all students learn at the same rate, this increases their chances of success (Digital Learning Institute, 2023). Additional advantages of self-paced learning module include enhancing students' self-control and time management, relieving student stress, enabling big group registration, and lowering institutional expenses (Digital Learning Institute, 2023).

In contrast, research conducted by Carcich and Rafti (2007) demonstrates experienced nurses prefer that traditional lecture or discussion teaching techniques versus self-learning module. Self-paced learning has advantages, but that doesn't always make it a good or appropriate method of training. There is a high level of class involvement in typical lecture or discussion programs. This is an example of active learning. Perhaps the participants consider that this is a more gratifying method to engage in active learning. Self-learning module cannot be used to exchange ideas and experiences. The shortcomings of self-paced learning modules include a lack of collaboration, structure. fewer networking less opportunities, and increasing difficulties in retaining student enthusiasm (Digital Learning Institute, 2023).

Conclusion and Suggestions

Based on the findings of this study, it is possible to conclude that the selfpaced module had a good influence on the knowledge of female nursing students. This study could be repeated in a bigger sample size because of the short sample size. This study should also be tweaked such that each participant can select his or her preferred technique of learning. Therefore, more research is needed to determine the effectiveness of one learning strategy over another.

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