ASSESSING THE EFFECTIVENESS OF DIGITAL LEARNING IN NURSING EDUCATION: A PILOT STUDY AMONG NURSING STUDENTS

Background

Digital learning has rapidly gained recognition and popularity. It encompasses a wide range of learning technologies and approaches, including distance learning, online learning, and mobile learning [1]. While digital learning offers several advantages, it is important to understand that it is not inherently superior to traditional approaches and should be used with a solid understanding of learners' needs. Digital learning encompasses several types, including synchronous, asynchronous, blended, massive open online, and open schedule online courses.

Aim

This study aimed to measure the digital learning experience among nursing students.

Methods

A nonexperimental, quantitative-descriptive research design was used, employing the E-Learning Experience Evaluation Scale (3E scale) with a Cronbach α of 0.93. A total of 155 nursing students from a Slovenian faculty of health sciences participated in the study. The age of the participants ranged from 19 to 36 years (M = 22.65, SD = 3.433). Data collection was conducted in June 2022 using an online questionnaire distributed via email using the open-source online survey application. The collected data were analyzed using IBM SPSS version 26.0. Due to the non-normal distribution of the data, non-parametric Mann-Whitney U test was performed. A p value ≤ 0.05 was considered statistically significant.

Results

Results obtained using the 3E scale indicated a moderately high digital learning experience among nursing students (M = 3.436, SD = 0.624; 95% confidence interval [3.34, 3.54], p < 0.01). Female students reported a more positive experience with digital learning (M = 3.42, SD = 0.672) compared to male students (M = 2.72, SD = 0.617), with statistically significant differences (p < 0.05) between the two groups. In addition, significant differences (p < 0.05) were observed in subscale 1 - Effectiveness of learning and subscale 3 - Delivery and support, where female students rated their digital learning experience higher (M = 3.19, SD = 0.891 and M = 3.52; SD = 0.675, respectively) than male students. No statistically significant differences were observed between groups for subscale 2 - Teacher's role and subscale 4 - Perceived barriers.

Discussion

It is important to recognize that digital learning is a multifaceted phenomenon influenced by a variety of factors, and that its effectiveness depends on the interplay of these factors [2]. These findings will facilitate the development of effective strategies and interventions to optimize the digital learning experience of nursing students and ultimately improve nursing education.

Implications and future perspectives

While digital platforms provide valuable opportunities for teaching and learning, further research is needed to gain a deeper understanding of the motivational drivers and factors that contribute to successful engagement and outcomes in digital learning environments.

References

- 1. Haleem A, Javaid M, Qadri MA, Suman R. Understanding the role of digital technologies in education: A review. Sustain Oper Comput, 3:275–85, 2022.
- 2. Loureiro F, Sousa L, Antunes V. Use of Digital Educational Technologies among Nursing Students and Teachers: An Exploratory Study. J Pers Med, 11:1010, 2021.



