

Abstract

Introduction

Simulation experiences are becoming increasingly popular, and this educational method allows students to acquire practical skills and learn how to behave in challenging and new environments, enabling practice before their first clinical experience.

Objective of the study

The aim of the study was to analyze and evaluate the perception and effectiveness of high-fidelity simulation in the education process of medical students in the Podkarpackie Voivodeship.

Research Material and Methodology

The study was conducted from April to December 2023 and included 320 students, including 160 students in at least their second year of medical studies at the University of Rzeszów and 160 students in at least their second year of nursing at the University of Rzeszów and the State Academy of Applied Sciences in Przemyśl. 160 students were tested using virtual reality (80 students in medical studies and 80 students in nursing) and 160 students were tested using traditional simulation (80 students in medical studies and 80 students in nursing). The following research tools were used in this study: the Simulation Assumptions Scale (SDS), the Educational Practices Qualifications Scale (EPQ), and the Student Satisfaction and Confidence in Learning Scale (SSCL).

Results

In the assessment of perception during high-fidelity simulations using traditional and virtual methods, no significant differences were observed for either simulation among nursing and medical students.

Analyzing the results of the differentiation between the effectiveness of high-fidelity simulations among nursing and medical students during simulation activities, no significant differences were observed for either simulation.

When describing differences in the effectiveness and perception of medical simulations among nursing and medical students in the educational process based on variables such as age and year of study, a weak relationship was noted, even in cases where statistical significance was achieved.

Summary

Medical and nursing students similarly rated the perception and effectiveness of the simulations used. Therefore, they could be used interchangeably, which would significantly diversify the educational programs in both programs.