



Enhancing clinical mathematics proficiency of nursing students through heuristic-based learning packets: A quantitative evaluation

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ABSTRACT

Mathematics plays a vital role in nursing practice, as it supports essential tasks such as medication administration, fluid management, and the accurate interpretation of patient data. However, nursing students often struggle to apply mathematical concepts in clinical settings where quick and accurate decisions are crucial. The study explores a heuristic way to help students become more confident and capable in using mathematics to ensure safe and effective patient care. A learning intervention was conducted among nursing students using specially designed packets incorporating heuristic strategies for understanding clinical mathematics. Data collected before and after the intervention were analyzed to identify meaningful improvements in their skills, with results handled under strict ethical and privacy guidelines. The results showed significant improvements in students' performance in clinical mathematics after using heuristic-based learning materials. These gains were consistent across key areas such as unit conversion, dosage calculation, fluid balance, and data interpretation. The findings confirm that focused and contextual instruction can meaningfully support nursing students in developing the skills necessary for safe and effective patient care.

Keywords: clinical mathematics, heuristic-based education, nursing practice, nursing education, mathematical education

INTRODUCTION

Background of the Study

Mathematical skills are essential in clinical practice, especially nursing, where precise calculations can directly impact patient outcomes (Ogbonnaya & Awoniyi, 2021). Nurses are often responsible for administering medications, managing intravenous fluids, and interpreting medical data, all requiring accuracy and confidence in mathematical computations (Taja-on et al., 2024). Their role as primary caregivers places them

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