

A Study to Assess the Effectiveness of Simulation-based Learning in Terms of Knowledge and Skills Regarding Conduction of Normal Vaginal Delivery among Nursing Students in Maharishi Markandeshwar Medical College and Hospital

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ABSTRACT

Introduction: Maternal mortality continues to be a major public health concern, and skilled care during childbirth remains one of the most effective strategies for improving maternal and neonatal outcomes. The conduction of normal vaginal delivery is a fundamental competency for nursing students and requires adequate knowledge, technical expertise, communication skills, and clinical decision-making abilities. Simulation-based learning has emerged as an innovative teaching strategy that provides students with a safe and realistic environment to develop and enhance clinical competencies.

Aim: The present study was conducted to assess the effectiveness of simulation-based learning in terms of knowledge and skills regarding the conduction of normal vaginal delivery among nursing students.

Materials and Methods: A quantitative research approach with a pre-test and post-test design was adopted among 50 nursing

students selected through a non-probability sampling technique. Data were collected using socio-demographic variables and a standardised skill checklist before and after administration of the simulation-based learning intervention. Descriptive and inferential statistics were used for data analysis.

Results: The findings revealed a significant improvement in both knowledge and skill scores following the intervention. Post-test mean knowledge and skill scores were considerably higher than pre-test scores, indicating the effectiveness of simulation-based learning in enhancing students' competencies related to normal vaginal delivery.

Conclusion: The study concluded that simulation-based learning is an effective educational strategy for improving knowledge and practical skills among nursing students and can contribute to better preparedness for safe maternal care practices.

Keywords: Maternal health, Maternal mortality, Skill score.

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