

Development of an e-Learning Programme on Management of Obstetrical Emergencies among Nursing Students

SIMARJEET KAUR¹, JYOTI SARIN²

ABSTRACT

Introduction: Obstetrical emergencies require prompt recognition, sound clinical decision-making, and timely evidence-based interventions to prevent maternal and neonatal morbidity and mortality. Nursing students need adequate knowledge and decision-making skills to manage these emergencies effectively. e-Learning offers an innovative, flexible, and learner-centred approach to nursing education through multimedia resources, animations, videos, and case-based scenarios.

Aim: To describe the systematic development of an e-learning programme on the management of obstetrical emergencies among nursing students.

Materials and Methods: The e-Learning programme was developed using the ADDIE instructional design model, comprising five steps: 1. Analysis: Reviewed literature, research studies, textbooks, and clinical guidelines to identify learning needs and relevant content on obstetrical emergencies. 2. Design: Formulated learning objectives, organised content, and planned instructional strategies based on Mayer's Cognitive Theory of Multimedia Learning. 3. Development: Created multimedia modules incorporating narrated animations, whiteboard animations, illustrations, case scenarios, and first-aid videos covering

cord prolapse, rupture uterus, shoulder dystocia, amniotic fluid embolism, postpartum haemorrhage, and obstetrical shock. Experts validated the content and technical features, and revisions were made accordingly. 4. Implementation: Delivered the finalised programme online, providing students with registration guidance and sequential access to learning modules. 5. Evaluation: Evaluated programme suitability, acceptability, and effectiveness among 362 B.Sc. Nursing students using a quasi-experimental design. Knowledge, decision-making ability, and competency were assessed at baseline, 15 days, and 52 days using structured tools and an OSCE-based checklist.

Conclusion: The systematic development of an e-learning programme using the ADDIE model and multimedia learning principles provides a structured approach to obstetrical emergency education. The programme offers an opportunity to enhance nursing students' knowledge and clinical competency while complementing conventional teaching methods. Its development and evaluation may contribute to strengthening nursing education and preparing students for the timely recognition and management of obstetrical emergencies.

Keywords: e-Learning programme, development, ADDIE model, obstetrical emergencies, nursing students, multimedia learning.

PARTICULARS OF CONTRIBUTORS:

1. Associate Professor, Maharishi Markandeshwar College of Nursing, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana, India.
2. Professor Cum Principal, Maharishi Markandeshwar College of Nursing, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana, India.

NAME, ADDRESS, E-MAIL ID OF THE CORRESPONDING AUTHOR:

Jyoti Sarin,
Professor Cum Principal, Maharishi Markandeshwar College of Nursing, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala-133207, Haryana, India.
E-mail: sarinjyoti@yahoo.co.in.