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Effectiveness of simulation-based interprofessional education on teamwork and communication skills in neonatal resuscitation

Shinhye Chae^{1,2} and Soonyoung Shon^{1*}

Abstract

Background The role of effective interprofessional teamwork is especially vital in the Neonatal Intensive Care Unit (NICU) where infants facing emergency situations are admitted. Proper neonatal resuscitation, facilitated by comprehensive resuscitation training, can significantly decrease the mortality rates associated with neonatal asphyxia and respiratory failure. This study aimed to develop a simulation-based interprofessional education (IPE) programme for medical staff working in a nursery and NICU and to assess its effectiveness on teamwork, communication skills, clinical performance, clinical judgement, interprofessional attitudes, and education satisfaction.

Methods Through a demand survey, neonatal resuscitation was selected as the theme, and an IPE team comprised of one doctor and two nurses was formed. The education programme consisted of three sessions lasting a total of 140 min: two simulation exercises and one theoretical education session. Data were collected from 18 nurses working in the nursery and NICU and 9 doctors working in the paediatrics department.

Results A comparison of the metrics before and after applying simulation-based IPE programmes revealed teamwork ($Z^2=2.67, p=.008$), communication skills ($Z^2=2.68, p=.007$), clinical performance ($Z^2=2.52, p=.012$), clinical judgement ($Z^2=4.52, p<.001$), and interprofessional attitude ($Z^2=3.64, p<.001$) to have significantly improved. Education satisfaction scores were 4.73 points on average out of a maximum of 5. The simulation-based IPE programme was effective in improving the teamwork, communication, and clinical performance of resuscitation teams, individual clinical judgement, and interprofessional attitude.

Conclusions Simulation-based IPE is effective for enhancing teamwork, team communication, clinical judgement skills, and clinical performance in neonatal resuscitation. This programme has the potential to contribute to the improvement of patient safety and the quality of neonatal care. Additional studies are needed to longitudinally examine the effects of the programme on patient safety and quality of neonatal care.

Keywords Interprofessional education, Simulation, Neonate resuscitation, Nursing education

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Table of Contents Communication And Teamwork Focused Simulation Based

1. Understanding the eBook Communication And Teamwork Focused Simulation Based
 - The Rise of Digital Reading Communication And Teamwork Focused Simulation Based
 - Advantages of eBooks Over Traditional Books
2. Identifying Communication And Teamwork Focused Simulation Based
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Communication And Teamwork Focused Simulation Based
 - User-Friendly Interface
4. Exploring eBook Recommendations from Communication And Teamwork Focused Simulation Based
 - Personalized Recommendations
 - Communication And Teamwork Focused Simulation Based User Reviews and Ratings
 - Communication And Teamwork Focused Simulation Based and Bestseller Lists
5. Accessing Communication And Teamwork Focused Simulation Based Free and Paid eBooks

- Communication And Teamwork Focused Simulation Based Public Domain eBooks
 - Communication And Teamwork Focused Simulation Based eBook Subscription Services
 - Communication And Teamwork Focused Simulation Based Budget-Friendly Options
6. Navigating Communication And Teamwork Focused Simulation Based eBook Formats
 - ePub, PDF, MOBI, and More
 - Communication And Teamwork Focused Simulation Based Compatibility with Devices
 - Communication And Teamwork Focused Simulation Based Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Communication And Teamwork Focused Simulation Based
 - Highlighting and Note-Taking Communication And Teamwork Focused Simulation Based
 - Interactive Elements Communication And Teamwork Focused Simulation Based
 8. Staying Engaged with Communication And Teamwork Focused Simulation Based
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Communication And Teamwork Focused Simulation Based
 9. Balancing eBooks and Physical Books Communication And Teamwork Focused Simulation Based
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Communication And Teamwork Focused Simulation Based
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Communication And Teamwork Focused Simulation Based
 - Setting Reading Goals Communication And Teamwork Focused Simulation Based
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Communication And Teamwork Focused Simulation Based
 - Fact-Checking eBook Content of Communication And Teamwork Focused Simulation Based
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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