Effectiveness of training module regarding care of neonate on bubble CPAP on knowledge and practices of nurses working in Neonatal Intensive Care Unit in selected hospitals of city.

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Abstract
Introduction: In developing countries, an increasing proportion (41%) of deaths of children less than 5 years of age occur in the neonatal period and the most important single causes are preterm birth (12%), birth asphyxia (9%), sepsis (6%) and pneumonia (4%). However, the direct cause of death is often respiratory failure. In the developed countries, respiratory distress syndrome is one of the most important causes of neonatal morbidity and mortality. Aim and objective: To check the effectiveness of training regarding care of neonate on Bubble CPAP on knowledge and practices of nurses. Methods and Materials: The study was conducted in hospital setting on nurses who are working in Neonatal Intensive Care Unit with the help of Knowledge Questionnaire for knowledge and Observational checklist for practices. Result: In this study, Pretest was 15.5 which increased to 24.5 in Posttest (Knowledge). Pretest was 13.4 which increased to 19.7 in Posttest. (Practices) Discussion: In this study, I observe that training module regarding care of neonate on Bubble CPAP is helpful for nurses to increase their knowledge and practices in the hospital setting. Conclusion: The result of the study helped the investigator to assess the effectiveness of training module regarding care of neonate on bubble CPAP on knowledge and practices of nurses working in Neonatal Intensive Care Unit. Training module will act as a guideline which helps staff nurses to improve practices.

Key words: knowledge, practices, NICU, Bubble CPAP, Training module, neonate.

Introduction
The Neonatal Intensive Care Unit is place where the management of the critically ill neonate takes place. The neonate will range from early 0 to 28 days. In India, few centers in government and private hospitals have developed separate Neonatal Intensive Care Unit (NICU). As a severity of illness is increasing in NICU, it is need to give training to NICU nurses about Bubble CPAP, care of Bubble CPAP. With the availability of modern technology, NICU care has improved but the cost has increased significantly. It is important to training module on Bubble CPAP depending on the available resources and cost effective.
Objectives of the study
1. To assess pre test knowledge and practices regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit before implementation of training module.
2. To assess the post-test knowledge and practices regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit after implementation of the training module.
3. To assess the effectiveness of training module regarding care of neonate on bubble CPAP on knowledge and practices of nurses working in Neonatal Intensive Care Unit.
4. To find association between post test knowledge and practices of nurses with demographic variables regarding care of neonate on bubble CPAP in Neonatal Intensive Care Unit.

Methods
The research methodology adopted for the study was evaluative approach. The investigator used quasi experimental research method. The setting for the study was Neonatal Intensive Care Unit of selected hospitals. Accessible population selected for this study consisted, all the nursing staff working in Neonatal Intensive Care Unit of selected hospital and who are available during the course of the study. Sample size was 50 staff nurses selected with the help of non-probability purposive sampling as per the inclusion criteria from the selected areas. Self-structured questionnaire and observational checklist was prepared to assess knowledge and practices on care of neonate on bubble CPAP.

Result
In pretest, 70% of the nurses had average knowledge (score 9-16) and 30% of them had good knowledge (score 17-25) regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit. In posttest, all the nurses had good knowledge (score 17-25) regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit. In pretest, 54% the nurses had average practices (score 7-13) and 46% of them had good practices (Score 14-20) regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit. In posttest, all the nurses had good practices (score 14-20) regarding care of neonate on bubble CPAP of nurses working in Neonatal Intensive Care Unit. Average knowledge score in pretest was 15.5 which increased to 24.5 in posttest. T-value for this test was 20.8 with 49 degrees of freedom. Corresponding p-value was small (less than 0.05), null hypothesis is rejected. Average practice score in pretest was 13.4 which increased to 19.7 in posttest. T-value for this test was 21.2 with 49 degrees of freedom. Corresponding p-value was small (less than 0.05), null hypothesis is rejected.

Conclusion
The result of the study helped the investigator to assess the effectiveness of training module regarding care of neonate on bubble CPAP on knowledge and practices of nurses working in Neonatal Intensive Care Unit. Training module will act as a guideline which helps staff nurses to improve practices.

References
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