

**Effect of Clinical Pathway Regarding to Care of Neonates on  
Noninvasive Continuous Positive Airway Pressure**

Thesis

***Submitted for Partial Fulfillment  
of Doctorate degree in  
Pediatric Nursing***

By

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## **Abstract**

Neonates on noninvasive continuous positive airway pressure (NICPAP) are requiring special care from nurses' working in neonatal intensive care unit to insure maximum performance. By applying the clinical pathway, it provides opportunities for collaborative practice, promote critical thinking and enhance collaboration among disciplinary team to provide optimal care outcomes for neonates on NICPAP. The aim of this study was to assess nurses' knowledge regarding to clinical pathway, designing, implementing, and evaluating the effect of clinical pathway intervention on nurses toward care of neonates on noninvasive continuous positive airway pressure. The study was carried out at Children and Maternity& Gynecological Hospitals affiliated to Ain-Shams University, El-Fayoum University Hospital, El- Fayoum Teaching Hospital and El-Fayoum Health Insurance Hospital. The subjects of the study involved all available nurses (69) who provided care to (56) neonates on NICPAP. Tools of data collection involved a structured questionnaire by interviewing the studied nurses (pre/post intervention of clinical pathway), neonates' sheet and the clinical pathway formats & contents. Results of the study revealed that the majority of the studied nurses (95.7%) showed good knowledge about clinical pathway post intervention while, none of them showed poor knowledge. All of the studied nurses had good knowledge regarding to activities of clinical pathway post intervention. All of nurses had good knowledge regarding complications of NICPAP post intervention, while only 4.3% had

poor knowledge about management of NICPAP complications. It can be concluded that, nurses were improved in their knowledge after the intervention concerning with the effect of clinical pathway and it is activities in care of neonates on continuous positive airway pressure (NICPAP).The researcher recommended the importance of raising awareness of multidisciplinary health team regarding advantages of clinical pathway and it is activities in care of neonates on NICPAP.

**Key words:** Clinical pathway, Neonates on NICPAP, Nurses' knowledge, intervention.