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**Impact of educational program upon nurse's knowledge and practice regarding children with pneumonia under mechanical ventilation at Ahmad Gasim Hospital, Khartoum, Sudan**

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**P**neumonia is a common disease in pediatrics mainly in infancy and early child hood. Mechanical ventilation is one of the major supportive modalities of treatment in the intensive care unit but it carries a lot of risks and complications. The research aims to assess the impact of educational Program upon nurse's knowledge and practice regarding children with pneumonia under mechanical ventilation at Ahmad Gasim to prevent Complication. Respiratory infections account to majority of acute illnesses in children, cause and course of these infections are influenced by age of child, season, living condition and pre-existing medical problem. This is a quasi-experimental study aiming the sample (50) nurses available during the research period extended from December 2013 to July 2014 (pre and post training program). The data collected by using a questionnaire and a observational checklist for the purpose of the study was collected by the researcher before and after the training program. The educational program is designed to study. The data were analyzed using the Statistical package for social sciences (SPSS) and the results showed that the nurses were acquired knowledge after intervention especially participant are knowledge and practical regarding mechanical ventilation according their correct and wrong (88%, 79%and 90%). The result showed that the nurse practical skills improved after program The Relation between total knowledge and level of practice as (46%) for good (34%) fair (20%) poor. (75-100 good, 50-74 fair, less than 50 poor). The study recommended education and training programs on an ongoing basis to provide high quality nursing care and also circulating a protocol for how to handle a patient with pneumonia disease under mechanical ventilation. The study concluded that the nurses information about pneumonia in children has improved and mechanical ventilation have evolved dramatically among nurses.

**Biography**

Eiman Ahmed Saad has completed PhD at the age of 30 year from Elribat National University and she is a post-doctoral candidate in Shendi University. She is the dean faculty of Nursing in Sudan International University. She is also director of external relationship office in Sudan Nursing faculty organization. She is the member of Sudanese Pediatrics Nursing Society. She was participated in reputed activities with scientific society of Arab nursing faculties. She has published 5 papers in reputed journal and has been serving as editorial board member of two international journal and one Sudanese journal.

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