



ISSN: 2230-9926

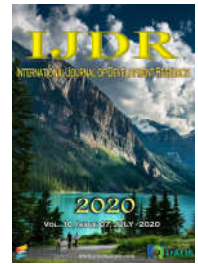
Available online at <http://www.journalijdr.com>

# IJDR

International Journal of Development Research

Vol. 10, Issue, 07, pp. 37668-37670, July, 2020

<https://doi.org/10.37118/ijdr.19334.07.2020>



RESEARCH ARTICLE

OPEN ACCESS

## EFFECTIVENESS OF CENTER OF EXCELLENCE CAMPAIGN ON NEONATAL NURSING

\*<sup>1</sup>Usha Banerjee, <sup>2</sup>Memota and <sup>3</sup>D. Maryline Flinsi

<sup>1</sup>Group Director Nursing, Apollo Hospitals Group

<sup>2</sup>Charge Nurse (NNICU) Indraprastha Apollo Hospital, New Delhi-76

<sup>3</sup>Principal, Apollo School of Nursing, Indraprastha Apollo Hospital, New Delhi-76

### ARTICLE INFO

#### Article History:

Received 20<sup>th</sup> April, 2020

Received in revised form

03<sup>rd</sup> May, 2020

Accepted 29<sup>th</sup> June, 2020

Published online 24<sup>th</sup> July, 2020

#### Key Words:

Neonates, Neonatal nursing,

Nursing campaign,

Nurses, Knowledge.

\*Corresponding author: Usha Banerjee,

### ABSTRACT

Nurses have professional responsibility to update their knowledge and apply that knowledge to the care of patient. It is significant for the neonatal nurses to keep themselves updated about a wide range of Neonatal related topics that will enhance them to optimize their nursing care practice. Center of excellence (COE) campaign on Neonatal Nursing with the theme "Word cannot express the Joy of a new Life" has focused on the knowledge and practice of providing care to Neonates. This training program has enriched the neonatal nurses to enhance the knowledge and skill in neonatal nursing care practices. A customized tool kit was designed in consultation with the neonatologist to serve as a guide for the COE activities of the month. The effectiveness of the campaign was assessed by adopting quasi-experimental research approach and one group pretest and posttest research design. A significant difference in the Pre-test and post-test knowledge score of the staff nurses revealed that the campaign on neonatal nursing was effective.

Copyright © 2020, Carla Jordana de Oliveira Nascimento et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Citation: Usha Banerjee, Memota and D. Maryline Flinsi. "Effectiveness of center of excellence campaign on neonatal nursing", *International Journal of Development Research*, 10, (07), 37668-37670.

## INTRODUCTION

For professional nurses continuing education is indispensable for safe and effective Nursing care. Florence Nightingale has cited in her "Notes on Nursing" that nurses must learn constantly not only through observation and experience but also by seeking new knowledge and new evidence. Nurses have professional responsibility to update their knowledge and implement that knowledge to the care of patient<sup>1</sup>. Neonatal nursing is a subspecialty of nursing that works with newborn infants in the first month of life; which is the crucial time of their survival. It is significant for the neonatal nurses to keep themselves knowledgeable about a wide range of Neonatal related topics that will enhance them to optimize their nursing care practice<sup>1</sup>. Center of excellence (COE) campaign on Neonatal Nursing was organized in the month of November 2019 as a part of clinical differentiation, a lever of Annual operating plan. The campaign focused on the knowledge and practice of providing care to the neonates. This campaign has benefited the nurses to develop knowledge and skill in Neonatal nursing care practices.

## MATERIALS AND METHODS

The certificate program on center of Excellence Neonatal nursing with title "Words cannot express the joy of a new life" was conducted to enhance the knowledge and skill of the neonatal nurses. It aims to prepare nurses to provide quality high end care to Newborns. The activities of the campaign were designed in consultation with the Neonatologist which served as a guide.

**Research approach:** The study was conducted using quantitative research approach

**Research design:** Quasi-experimental one group pretest – posttest research design

**Research Setting:** In November 2019 the study was conducted in Indraprastha Apollo Hospital, New Delhi

**Sample and sampling technique:** The sample size was 16. Purposive sampling technique was used to select staff from pediatric and neonatal units.

**Tool:** The knowledge of the staff nurses before and after the certificate program was assessed with structured knowledge questionnaire.

**Table 1. Showing the activities of the campaign**

S/No	Topic
1.	Care of NewBorn
2.	New Born Screening
3.	Neonatal Hypothermia
4.	Lactation Nurse training
5.	Neonatal Jaundice
6.	Fluid and electrolyte Management in New Born
7.	Neonatal Hypoglycemia
8.	Perinatal Asphyxia
9.	Management of Biomedical equipment of NNICU
10.	Neonatal Acute Kidney Injury
11.	Neonatal Sepsis
12.	Hirschsprungs disease
13.	Spin the wheel –Quiz team
14.	NALS

The implementation details regarding the activities of Neonatal nursing center of excellence Campaign are as follows

**Care of Newborn:** The Neonatology registrar has taken an informative session on immediate care after birth, General care, Care of Umbilical Cord, Weighing, Bathing, Urine and Stools check.

**Newborn screening:** The DNB registrar has taken an interactive class on Apgar scoring, newborn assessment, blood screening, hearing test, screening for retinopathy of prematurity etc.

**Neonatal Hypothermia:** The topics discussed in the class was causes, risk factors, management and prevention.

**Lactation nurse Training:** Avents Philips Company has organized a workshop on lactation Nurse Training. Reinforcement was done on breast feeding type of breast milk, advantages and anticipatory guidance for the lactating mother .Lactation Nurse will be responsible for helping mother's with their breastfeeding and child care questions and concerns. They will be educating patients, how to correctly breastfeed their babies, offering tips during the first feedings. They will also be helping mothers in the transitions back to work by teaching them how to maintain milk supplies

**Neonatal jaundice:** Senior Consultant Neonatology has taken an instructional session on causes, types, clinical features, management, prevention and nurse's responsibility.

**Fluid and electrolyte management in Newborn:** The NNICU registrar has taken an informative session on the fluid and electrolyte requirement and management in newborn.

**Perinatal Asphyxia:** Senior Consultant Neonatology has taken a detailed class on pulmonary physiology, perinatal asphyxia, etiology, clinical features, clinical & nursing management, warning signs and prevention.

**Management of Biomedical equipment of NNICU:** Biomedical Engineer has conducted a session on biomedical equipment for the staff nurses attending the campaign. Organized Biomedical Equipment check of the equipment of NNICU.

**Neonatal acute Kidney Disease:** DNB nephrology registrar has taken a detailed class on the acute kidney disease in newborn, pathophysiology, etiology and management.

**Neonatal Sepsis:** The neonatology registrar has taken an interesting session on neonatal sepsis .He discussed about the types, commonest organism, clinical features and management

**Hirschsprung's disease:** The neonatology registrar has taken class on management of the new born with one of the common congenital anomaly of GI system named Hirschsprung's disease.

**Spin the wheel quiz competition:** This quiz was conducted on the topic at which rotating wheel pointer stops. There are 4 areas such as Micronutrients, developmental stages of newborn, diseases of newborn and NALS and on each area there will be 5 question. The participants were divided in to the five groups and the winner group was given token of appreciation.

**Workshop on Neonatal advance life support:** Neonatal resuscitation workshop focused on the assessment of perinatal risk, a system to assemble the appropriate personnel and equipment based on that risk, and standardization of skills for effective teamwork and communication. Evidence states that 10% of newborns require some assistance to initiate breathing at birth and less than 1% require extensive resuscitation such as cardiac compressions and medications. Hands on training was given to the nurses by the certified NALS trainer. Feedback from staff on their challenges were sorted out by providing feasible solutions.

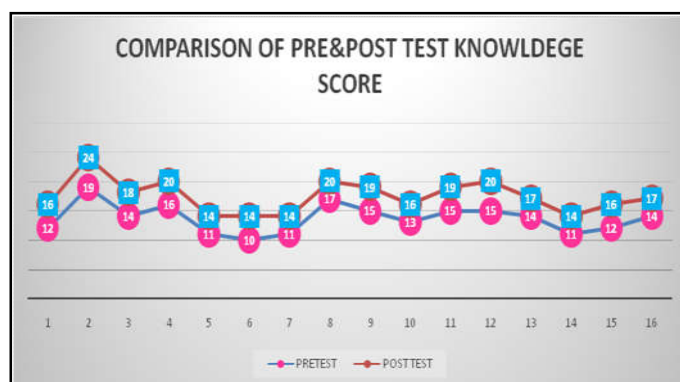
## RESULTS

The pretest and post score were analyzed with descriptive and inferential statistics to assess the effectiveness of the campaign.

**Table 2. Frequency and Percentage distribution of the knowledge score of the staff nurses before and after the campaign**

N= 16

S/No	Knowledge score	Pretest		Post test	
		Frequency	Percentage	Frequency	Percentage
1.	Poor Knowledge [0-8]	0	0	0	0
2.	Average Knowledge [9-16]	15	94	7	44
3.	Good Knowledge [17-25]	1	6	9	56

**Fig 1. Showing the comparison of pre and post test scores**

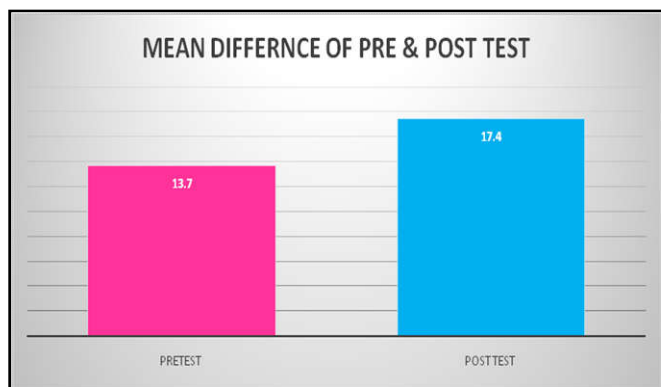


Fig. 2. Showing the mean difference of pre and post test

Table 3. Calculation of the “t” test value to assess the effectiveness of the certificate program

Item	Mean	Standard deviation	Mean difference	Standard error of mean difference	“t” test
Pre test	13.7	2.49	3.7	0.94	3.94
Post test	17.4	2.85			

The calculated ‘t’ value 3.94 is more than the table value 1.76 at df 14 reveals that the mean difference between the pretest and posttest score is significant at 0.05 level of significance and not by chance. So the campaign on neonatal nursing was effective in increasing the knowledge of the staff nurses.

**Conclusion**

The campaign has enlightened the neonatal nurses and gave them an insight in to management of the newborn. The workshop on lactation nurse has made them confident to educate the mother on lactation and promote breast feeding. The NALS hands on training has empowered the nurses to save the life of the newborn during the golden minute. Overall the campaign benefited the nurses to hone their knowledge and skill in caring normal and sick neonate.

**REFERENCES**

1. Witt, Catherine L. MS, NNP-BC [2011], Continuing Education, National Association of Neonatal Nurses, August 2011 - Volume 11 - Issue 4 - p 227-228

\*\*\*\*\*