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RESEARCH ARTICLE

EFFECTIVENESS OF CENTER OF EXCELLENCE CAMPAIGN ON PEDIATRIC NURSING

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Abstract

Pediatric nurses have challenging role in providing nursing care for the children of age range from infant till toddler. Continuous nursing education affords nurses the opportunity to learn advance techniques in pediatric patient care. Center of excellence (COE) campaign on Pediatric Nursing with the theme "Because children are Precious" has focused on the knowledge and practice of providing care to pediatric patient. This training programme has benefited the nurses to develop knowledge and skill in pediatric nursing care practices. A customized tool kit was designed in consultation with the pediatricians to serve as a guide for the COE activities of the month. A quasi - experimental one group pretest and posttest research design was opted to assess the effectiveness of the program. A significant difference in the Pre-test and post-test knowledge score of the staff nurses showed that the certification program on Pediatric Nursing was effective.

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Introduction:-

Pediatric nurses have challenging role in providing nursing care for the children of age range from infant till toddler. It requires developmental appropriate care and persistence in assessment of the child and handle parental concerns. Pediatric professional Nursing practice of nursing can be both rewarding and challenging and require constant vigilance in providing quality care to the patient.

Lifelong learning is a critical part of the pediatric Nursing career because they are expected by parents and physicians to be rationalists, knowledgeable, and collaborative on daily basis. . Staying up to date on best practices and standards of care is essential for them as it directly reflects in the patient clinical outcomes. Continuous nursing education affords nurses the opportunity to learn advance techniques in pediatric patient care.

Center of excellence (COE) campaign on Pediatric Nursing was conducted in the month of September and October 2019 as a part of clinical differentiation, a lever of Annual operating plan. The training has focused on the knowledge and practice of providing care to pediatric patient. This training programme has benefited the nurses to develop knowledge and skill in pediatric nursing care practices.

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Material and Methods:-

The certificate program on center of Excellence pediatric nursing with title “Because children are Precious” was designed to develop nurses to be proficient in caring and managing pediatric patients. It aims to prepare nurses with a comprehensive knowledge and skills of to provide quality high end care to children. A customized tool kit was designed in consultation with the pediatricians to serve as a guide for the COE activities of the month. All Apollo hospital across the country has taken up the program simultaneously but the study conducted only in Delhi is presented here.

Research Approach

The study was conducted using quantitative research approach

Research Design

Quasi –experimental one group pretest –posttest research design

Research Setting

In September and October 2019 the study was conducted in Indraprastha apollo Hospital, New Delhi

Sample and sampling technique

The sample size was 29. Convenient sampling technique was used to select staff from all the units.

Tool

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

 Calendar of Activities-September 2019 						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	 3	4	5	6	7
8	9 Opening ceremony & Pre-test (Pediatric Nursing)	10 Developmental Mile stones & screening	11 Activity : Gift a card	12 Management of Developmental & behavioral problems	13 Factors influencing health promotion Failure to thrive	14 Pediatric Nutrition
 15	16 Breast feeding & weaning	17 Nutritional disorders and its management	18 Child hood obesity /anorexia & Bulimia Nervosa	19 No classes - Audit	20 preparedness for	21 JCI internal
22	23 No classes -	24 classes -	25 JCI internal	26 Audit	27 Management of Child with emergency medical condition or Trauma	28 History &Physical findings /Laboratory investigations
28	30 Pain management /Medication & Fluid Management		2	3	4	5

Fig 1:- Showing Tool kit of Pediatric Nursing Campaign Activities for September month.

Calendar of Activities-October 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Management of fever	2 Public Holiday - Gandhi Jayanti	3 Gastrointestinal Infections	4 Pulmonary Infections	5 Central Nervous system Infections
6	7 Cardio vascular Infections	8 Holiday - Dussehra	9 Infections of bone and Joints	10 Communicable diseases Bacteremia/septic emia/Viral diseases	11 Antimicrobial Prophylaxis/ immunization schedule	12 Congenital disorders in children
13	14 Immunology and Allergy	15 Management of common malignant diseases in children	16 Cognitive impairment & Down syndrome	17 Sensory impairment	18 Autism and learning Disabilities	19 Child with neuro muscular dysfunction
20	21 Quality of life for children with chronic or complex diseases	22 End of life care in children	23 Pediatric Advanced Life Support workshop	24 Activity -Pediatric Drug Scrabble competition	25 Activity -Making disposable cartoon cover for transfusions	26 Activity -Debate
27	28 Closing ceremony		29	30	31	

Fig 2:- Showing Tool kit of Pediatric Nursing Campaign Activities for October month.

The implementation details regarding the activities of pediatric nursing center of excellence training program are as follows

Opening Ceremony:

The pediatric Nursing COE started with an opening ceremony. Physicians and surgeons from Apollo Institute of Pediatrics, Unit Head/ HOD's/ Nurses from relevant areas/ Nursing leadership team were invited. The calendar of activities of the month was showcased. Pre-test was conducted to all the participants.

Developmental mile stones and screening:

Interactive sessions on developmental mile stones and importance of screening for the milestones in the children was discussed by senior pediatric resident.

Activity 1: Gift a card:

Nurses made handmade cards along with the children admitted in their units (child's participation was the key) considering their favorite characters. The cards were given as gift to the children and happy moments were captured.

Management of Developmental and behavioral problems:

Types of behavioral problems, its management and anticipatory guidelines for the parents were discussed

Failure to Thrive:

Detailed class was taken on all the factors influencing the health promotion and failure to thrive.

Pediatric nutrition:

The head of Dietics has taken an informative session on the importance of Nutrition for children both healthy and sick.

Breast feeding and weaning:

A team from Medla Company has conducted an interesting class on breast feeding and weaning.

Nutritional disorders and its management:

Senior Pediatric resident has taken class on the common nutritional disorders and its management.

Obesity /Anorexia & Bulimia Nervosa:

Pediatric consultant has taken class on the common nutritional problems seen in adolescents such as childhood obesity, anorexia and Bulimia nervosa.

Management of child with Emergency medical condition and trauma/History, physical findings and lab investigations:

Senior pediatric Intensivist taken an interactive session on how to manage child in emergency condition and trauma, what history to collect, major investigations to be done along with demonstration of air way opening and intubation.

Pain and fluid management:

Senior Intensivist has taken a detailed session on the fluid and pain management of a sick child.

Management of fever:

Fever in children, commoncauses, management, and home care was discussed in detail by the pediatric registrar

Gastrointestinal infections:

Pediatric gastroenterologist has taken an informative class on common cause and management of gastrointestinal infections

Pulmonary infection:

Respiratory medicine registrar has taken an interactive session on common respiratory infections in children, its cause, management and anticipatory parental guide lines for prevention.

Central Nervous infection:

Pediatric registrar has taken an informative session on common nervous system disorders, causes, clinical manifestation, warning signs and its management.

Cardiovascular infections:

The senior cardiology registrar has taken an interactive session on cardiovascular infection in the form of case study discussion.

Infections of bones and Joints:

The senior orthopedic consultant has taken class on the common infections of bone and joints in children and its management.

Communicable diseases:

Thepediatric consultant has taken session on common communicable diseases in children and its management.

Antibiotics and Immunization:

The senior Pharmacist has taken class on importance of antibiotics, antibiotic stewardship and immunization program.

Congenital disorders in children:

The pediatric surgeon has taken class on the common congenital anomalies. He covered cause, surgical correction, follow up and anticipatory guidance for parents

Immunology and allergy:

The senior microbiologist has taken class on immunology & allergy in children and its management and prevention.

Management of malignant diseases in children:

The Pediatric oncologist has taken an instructional session on the common malignant conditions in children and its management.

Cognitive impairment and Downsyndrome:

Pediatric consultant has taken an interactive session on Down syndrome

Autism and learning disabilities:

The clinical Psychologist has taken class on the common Learning disabilities in children, management and parental guidance

Child with neuromuscular dysfunction:

The Senior Neuro science consultant has taken class on common neuro muscular disorder in children,

End of life care in children and Quality of life for children with chronic and complex diseases:

The counselor has taken an informative session on end of life care and quality of life with terminal illness children.

Pediatric advance life support therapy: The senior Intensivist has taken hands on training on pediatric advance life support with demonstration and return demonstration.

Activity 2: Pediatric drug scramble Competition:

The participants were divided in to different teams to conduct the scramble completion on pediatric drugs.The pediatric drug names were given in all scrabbled words and the participants have to identify the correct spelling of the drug name.

Activity 3: MakingMeddyteddy:

The participants made disposable paper cover of IV bottles and blood transfusions or feeds with paper. The designs were of their favorite cartoon character or eatables which the kids like. The same was handed over to the patients at the time of discharge and the moments were captured.

Closing ceremony and Post test:

Closing ceremony was organized and all the participants were felicitated with certificates, and the participants who scored highest in pre& post-test were given a token of appreciation.

Results:-

The pretest and post score was analyzed with descriptive and inferential statistics to assess the effectiveness of the certificate programme.

Table 1:- Frequency Percentage distribution of the knowledge score of the staff nurses before and after the program N=29.

S/No	Knowledge score	Pretest		Post test	
		Frequency	Percentage	Frequency	Percentage
1.	Poor Knowledge [0-8]	8	28	0	0
2.	Average Knowledge [9-18]	21	72	13	45
3.	Good Knowledge [19-25]	0	0	16	55

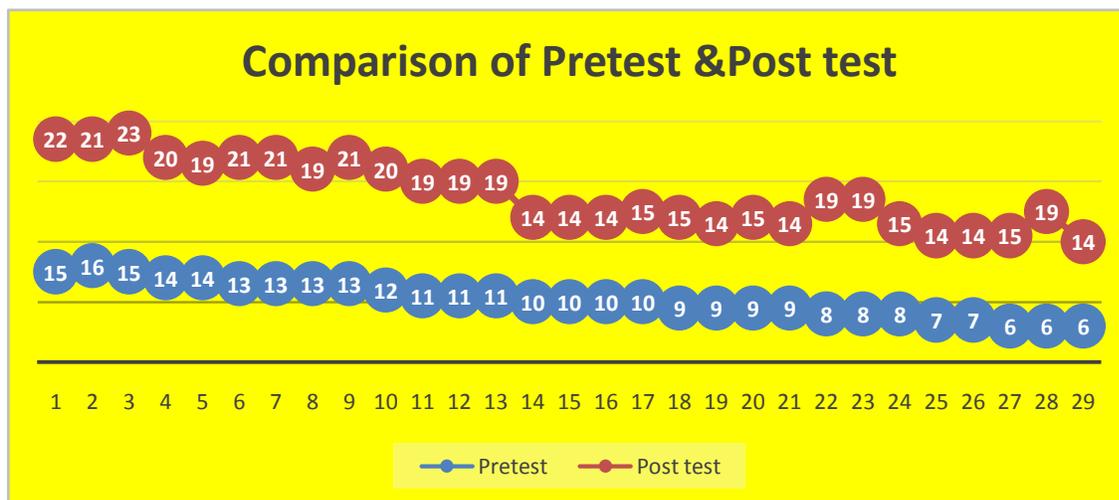


Fig 3:- Showing the comparison of pre and post test scores.

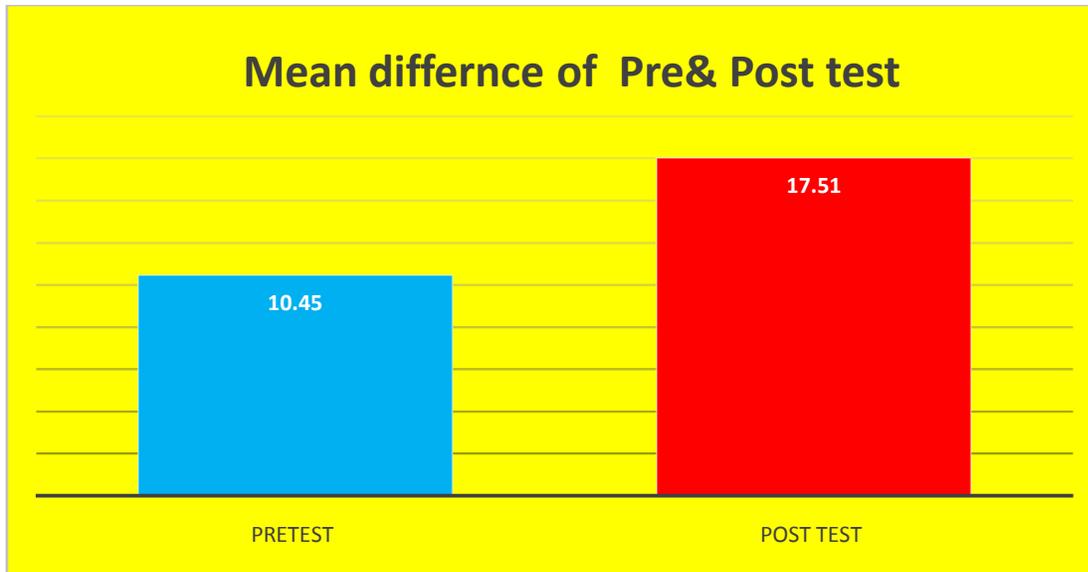


Fig 4:- Showing the mean difference of pre and post test.

Table 2:- 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	10.45	2.91	7.06	0.76	9.28
Post test	17.51	3.04			

The calculated ‘t’ value 9.28 is more than the table value 2.052 at df 27 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 one month certification program on pediatric nursing was effective in increasing the knowledge of the staff nurses.

Conclusion:-

The campaign has made a significant influence in enhancing the knowledge, skill and attitude of the nurses in taking care of the hospitalized children. It has created an opportunity for the nurses to hone their critical thinking and decision making skills of pediatric nursing practice. It has made them confident in communicating with the children and their care takers and enabled them to provide anticipatory health education to them on prevention aspects. The workshop on Pediatric Advanced life support has assured the lifesaving skills. The activity has enriched the rapport between the nurses and the children.

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2. <https://pediatricnursing.net> ›.