Knowledge regarding shaken baby syndrome among mothers

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ABSTRACT

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INTRODUCTION. Shaken baby syndrome is the most common cause of death or serious neurological injury resulting from child abuse, it is a form of child abuse that is characterized by brain injury.

OBJECTIVES: 1. To assess the knowledge of mothers regarding shaken baby syndrome 2. To determine association belieful mothers knowledge score and selected social demographic variables.

METHOD: Quantitative descriptive approach and survey research design was adopted for study. A structured knowledge question half was used to collect the data from a sample of 100 mothers, selected by convenient sampling technique in a selected hospital in Turblu. Kamataka

RESULTS AND CONCLUSION. The findings of the study showed that majority. (68%) of mothers had poor knowledge. 25% had average knowledge and 7% had good knowledge about shaken paby syndrome. Findings also revealed that demographic variables like educational status of mothers and number of children had significant association with the knowledge score of mothers. Hospital and community based awareness programmes for the parents on potential dangers of the shaking the infants and toddlers are the north of

KEYWORDS: Shaken baby syndrome Knewledge Mothers, mants

Introduction

Shaken Baby Syndrome, Battered Baby syndrome are all variant forms of child abuse that has many names but a single outcome. Shaken baby syndrome is a serious and clearly definable form of child abuse. It occurs when a child is shaken violently as part of an adult or caregiver s pattern of care or because an adult or care giver momentarily succumbs to the frustration of having responded to a crying baby. Shaken baby syndrome is clearly definable medical condition.¹

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WHO estimates that 40 million children and subjected to abuse and neglect around the winds. In 2007, India published a report on one of the largest surveys done on child abuse with abuse baby syndrome as one of the component and found that two out of every three children all physically abused and 88.6% of them suffered at the hands of their parents²

When someone forcefully shakes the baby, the child's head rotates about the neck uncontrollably because infant's neck muscles aren't well developed and provides a little support for their head. This violent movement pitches in the infant brain, and within the skull, and sometimes

rupturing of blood vessel, nerves and tearing of the brain tissues occurs. The brain may strike inside the skull which causes bruising and bleeding. The outcome can range from no apparent effect to permanent disability, including development delay, seizures, paralysis, blindness and even death. Survivor may have significant delayed effect of neurological injury resulting in a range of impairments seen over the course of the child s life including cognitive, defects and behavioral problems.³⁻⁷

A key aspect of prevention is increasing awareness of the potential dangers of shaking children among parents and caregivers.

Objectives

- 1. To assess the knowledge of mothers regarding shaken baby syndrome.
- To determine association between the knowledge of mothers regarding shaken baby syndrome and their selected sociodemographic variables.

METHODOLOGY

A non experimental Quantitative approach with survey research design was adopted. The study was conducted at Sri R L Jalappa Hospital & Research centre, Kolar, Karnataka. Ethical clearance was obtained from Institutional Ethical committee and formal permission obtained from authorities of the Hospital. Data was collected from 100 mothers having infants aged between birth to 1 year, who accompanied children to pediatric wards and OPD of the selected hospital and who could speak and understand Kannada or Telugu. Convenient sampling technique was used to recruit the sample. Pre validated structured Knowledge Questionnaire was used to collect the data from mothers after obtaining informed verbal consent. Tool consisted of two sections. Section I with base line data and section

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II knowledge questionnaire with 20 item. meaning, causes, signs and sympoms prevention of shaken baby syndrome. Total score was categorized and interpreted as gook knowledge (above 15 score;75%), moderate knowledge (10-14 scores,50 to 70%), pook knowledge (less than 10 score below 50% Validity and reliability of the tool was done before administration of the tool. The Karl Pearson Correlation co-efficient r value was 0.75.

Results

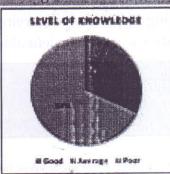
I. Demographic characteristics of mothers an infants

Majority (75%) of the mothers were in the aggroup of 21-25 years, 39% of them had high scholand PUC education. Majority (69%) of the mothers were housewives 61% belonged to join family, 59% had more than one child. Half (50% of the mothers were from rural area, majorit (80%) of the mothers were Hindus, 90% had information about shaken baby syndrom through mass media. Most of infants (45%) we between the age group of 1-4 months and 53 were females.

II. Knowledge of mothers regarding shake baby syndrome

The figure 1 depicts that majority (68%) mothers had poor knowledge, 25% had average knowledge level and only 7% had good knowledge regarding Shaken Baby Syndrome

Figure 1. Percentage of mothers according level of knowledge on Shaken Baby Syndron



of pain among neonates in various neonatal units found the world. The NFCS is used to identify facial expressions to assess the level of pain. NFCS is a standardized and well established scale which has been validated by several researchers and is in use for assessment of pain among neonates in various settings. SPSS software (version 16) was used for the statistical analysis.

RESULTS

I. Description of the socio-demographic characteristics

As seen in table 1 majority (75%) of newborn babies age assessed for pain were less than 3 days

, 58.3% were males. Most (63.3%) of newborn were born as normal vaginal delivery and mos of their birth weight (48.3%) were above 2,500gm Of the procedures, newborn babies assessed majority underwent intravenous cannulation (50%).

II. Comparison of NFCS and NIPS pain assessment scales

As shown in table 2 the mean pain score on NIPS was 5.77 ± 0.621 and the mean pain score on NFCS was 7.50 ± 1.200 . Paired t test done between NIPS and NFCS reveals that there is a significant difference between the pain rating on both the scales.

Demographic characteris	F	0/0	
Age	< 3 days	45	75
	>3 days	15	25
Sex	Male	35	58.3
	Female	25	41.6
Mode of Delivery	Normal Delivery	38.	63.3
	Lower Segment Cesarean Section	32	36.6
Birth Weight	<1,499gm	2	3.3
the transfer of the second	1,500-1,999gm	5	8.3
	2,000-2,499gm	24	40
	>2,500gm	29	48.3
Name of Procedure	Intravenous cannulation	30	50
	Veinupucture		2
	Nasogartric tube insertion	18	3

Table 2. M	ean Pain scores obtain	ed on both
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 Variable
 Mean Pain
 SD
 t value
 p value

 Score
 NIPS
 5.77
 0.621
 13.39
 <0.001**</td>

 NFCS
 7.50
 1.200

III. Correlation of pain scores

There is a significant positive correlation between both the pain scales as shown in table 3.

It is interpreted that both the scales can be used in assessing pain during procedure.

^{**} Highly Significant at 0.001 Level.

Tible 3. Intraclass correlation on NIPS and NECS						
100				ไ		
Pain	Pain	r	p value	95%		
Scale	Score	(1-1/1-1	that the	CI		
NIPS	5.77 ± 0.621	0.634	<0.001	0.38-0.78		
NFCS	7.50 ± 1.200					

intraclass correlation

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IV. Association of pain scores with selected variables

There was no association between the pain scores and the selected variables like age, sex and mode of delivery.

DISCUSSION

Although more than 40 infant pain instruments exist, many were devised solely for research purposes; several of the newly developed instruments largely overlap with existing instruments. Integration of pain management into daily practice remains problematic.¹⁴

The finding of the present study shows that more pain is reported by NFCS. However there is a significant positive correlation between both the pain scales, the Neonatal Infant Pain Scale (NIPS) and Neonatal Facial Coding System NFCS can be used to assess procedure related pain among term newborn babies in India. Comparison of three neonatal pain scales during minor painful procedures (Neonatal Infant Pain Scale (NIPS), the Neonatal Facial Coding System (NFCS), and the Douleur Aigue du Nouveau-ne (DAN)) stated that NIPS was more sensitive to evaluate pain during minor painful procedures in neonates.15 Comparison of four neonatal pain scale revealed DAN to be convenient than NIPS, PIPP and NPAS.16 While comparing FLACC and NIPS, both have excellent sensitivity and specificity for

pain assessment in infants.¹⁷ Higher interobserver reliability of NIPS than PIPP was so found by Bellieni CV etal.¹⁸

CONCLUSION

Both Neonatal Infant Pain Scale (NIPS) and Neonatal Facial Coding System NFCS can be used to assess procedure related pain in newborn babies. The implications for nursing from this study include an emphasis of the need for nurses to assess neonate s pain, intervene and document appropriately. Accurate assessments of the neonate s pain, along with all of the other factors that play a role in pain perception are vital to the outcome. The findings of the study have brought many implications in nursing practice, education, administration and research.

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