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A Review Article

STUDY ON ASSESSMENT OF KNOWLEDGE AND PRACTICE ON NEONATAL CARE AMONG POSTNATAL MOTHERS IN TERTIARY CARE HOSPITAL

(Dr) V. Sowjanya¹, (Dr) U. Vishnusree¹, (Dr) P. Saikiran¹, Dr. A. Sridevi²,

Dr. G. Pitchaiah²

	DI. G. I Ittilalali	
Article Received: January 2021	Accepted: January 2021	Published: February 2021
Abstract: Background: Under-five mortality is a mage group, most vulnerable population is tunder-five child deaths. Neonatal period habby. That is why the care of the new bord	he neonatal period (0-28 days of lif as also an important bearing on long	fe), accounting for more than half og term growth and development of the
rate. Methods: Mothers were classified accor questionnaire comprising of 25 questions correct response 1 point and for each incor Knowledge was categorized as inadequate was categorized as inadequate (score 0-4) determine whether any statistical correlate practices. A p value of <0.05 was considered	on knowledge and 14 questions on rect response 0 point was allotted. F (score 0-7), satisfactory (score 8-16), satisfactory (5-9) or adequate (10- ion existed between the socio-demog	practice of newborn care. For each Finally, the total score was computed.) or adequate (score 17-25). Practice 14). Chi- square test was applied to
Results: Answers of 200 mothers were an them had adequate practice (54%). This st practice with selected demographic varia knowledge (p <0.00001). No association w There was a significant association bet association between $age(p=1.828)$ and edu	alyzed. Most of them had satisfacto udy shows that there is significant a bles. There was significant associa as observed between knowledge and ween parity and practice (p=0.00	ssociation of level of knowledge and tion between educational level and d age ($p=0.1657$), parity ($p=0.014$). 001), occupation ($p=0.00001$). No
Conclusion: Maternal knowledge and pr death. Some socio demographic factors m Educating the mothers and also their family Key words: knowledge, postnatal mothers,	ractice about new born care play v hay bear associations with the know w members plays a pivotal role.	ital roles in prevention of neonatal
Corresponding author:		

(Dr) V. Sowjanya,



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INTRODUCTION:

Neonatal mortality or death is one of the major causes of concern with newborns all over the world. especially developing and under developed countries. Despite some remarkable improvements in neonatal health in recent years, the high mortality rates remain unchanged in many countries [1]. Of the 10 million babies born every year, approximately 4million infants die during first week, 8 million during first year and around 10 million within5 years of their life [2]. 99% of these deaths occur in the third world or developing countries, Asia and Africa contributing two third of those [3]. Out of the 3.9 million deaths occurring worldwide, it is estimated that about 1.17 million (30%) deaths occur in India [4], where most of these deaths taking place at home due to lack of proper care. According to United Nations Children's Fund, one in five infants who die within one month after birth is an Indian. Almost fifty percent of the neonatal deaths occurring within 5 years happen before first 28 days. In the past two decades, there has been a decline in neonatal mortality, between 1.7% and 2.3% [5] and it is due to the vigorous efforts of government as well as non-government organizations. Unhygienic environment conditions, improper cord care practices, poor feeding practices etc can cause infections like sepsis, tetanus, diarrhoea etc.,to infants leading to death [6]. Inadequate knowledge results from many problems in these countries, some of them being finance, illiteracy, early marriage and child bearing as well as lack of experience [7]. Essential newborn care is a wideranging interventional strategy designed and developed with the aim to improve newborn's health and it is administered before conception, during pregnancy and delivery, after birth as well as during the postnatal period [8]. Adequate diet, proper immunizations, breast feeding counselling, nutrient intake, detection and treatment of infections and diseases, preparing for delivery etc are some of the normal antenatal care practices [9]. There are number of interventions in the essential newborn care practice and all of them are important and should be practiced in a proper way for better results [10]. Birth attendants should keep their hands and other contacts with umbilical cord clean and hygienic to prevent such infections [11].

Newborn care:

All newborns require essential newborn care to minimize the risk of illness and maximize their growth and development. Warmth, normal breathing, mother's milk, and prevention of infection are the basic needs of normal baby at birth. These basic needs indicate that a baby's survival is totally dependent upon her mother and other caregivers. Therefore, it is important to provide proper care to all the neonates immediately after birth. This care will also prevent many newborn emergencies [13].

Thus, the present study was undertaken to assess the knowledge of mothers regarding newborn care, find out the practices of mother regarding newborn care and to find the relationship between knowledge and practice of mothers regarding newborn. This research was conducted at Government general hospital, Ongole, Andhra Pradesh, India.

Aim:

• The aim of the study is to assess the knowledge and practice on neonatal care among postnatal mothers in a tertiary care hospital.

Objectives:

- To determine the existing knowledge of postnatal mothers regarding new born care.
- To determine the practices of postnatal mothers regarding new born care.
- To find out the relationship between knowledge and practices of postnatal mothers regarding new born care.
- To determine the association between knowledge and selected demographic variables of postnatal mothers regarding new born care.

METHODOLOGY:

The present study was conducted based on some socio demographic factors. A questionnaire comprising of 25 questions on knowledge and 14 questions on practice of newborn care. For each correct response 1 point and for each incorrect response 0 point was allotted. Finally, the total score was computed. Knowledge was categorized as inadequate (score 0-7), satisfactory (score 8-16) and adequate (score 17-25). Practice was categorized as inadequate (score 0-4), satisfactory (5-9) and adequate (10-14).

Study design: Prospective Observational study carried out among postnatal mothers

Study site: Department of Obstetrics & gynaecology, Government general hospital, Ongole, Andhra Pradesh, India

Study period: 6 months Study population: 200 Inclusion criteria:

- Postnatal mothers who were willing to participate in study.
- The mothers who were able to communicate in

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Telugu, Hindi, English.

• Mothers who had given birth to live born baby in Government General Hospital and mothers who was admitted in the postnatal ward.

Exclusion criteria:

- Mothers who were sick
- Mothers who were not willing to participate in the study
- Mothers who were admitted in Intensive care unit (ICU)

RESULTS:

A total of 200 postnatal mothers were participated in the study.

The mothers were classified according to different socio demographic factors. The percentage of knowledge and practice scores were predicted as

Parameters	Frequency	Percentage%	
Age			
<20	34	17.0%	
20-27	121	60.5%	
28-35	32	16.0%	
>35	13	6.5%	
Parity	·		
Primipara	120	60.5%	
Multipara	80	39.5%	
Education			
Illiterate	43	21.5%	
Primary	86	43.0%	
Secondary	54	27.0%	
Graduation	15	7.5%	
Higher education	2	1%	
Occupation			
Housewife	169	84.5%	
Working	31	15.5%	
Economic status			
Poor	100	50%	
Middle class	96	48%	
Above middle class	3	1.5%	
Upper class	1	0.5%	

Table 1. Distribution of mothers according to socio demographic factors

Table.2 Association between level of knowledge and practice and socio demographic factors of the mothers (n=200)

Knowledge (Score)	Number	Percentage	
Inadequate (0-7)	61	30.5	
Satisfactory (8-16)	86	43	
Adequate (17-25)	53	26.5	
Practice (Score)	Number	Percentage	
Inadequate (0-4)	51	25.5	
Satisfactory (5-9)	41	20.5	
Adequate (10-14)	108	54	

Factors	Knowledge – P value	Relation (Yes/No)	Practice – P value	Relation (Yes/No)
Age	0.1657	No	1.828	No
Parity	0.014	No	0.00001	Yes
Education	0.00001	Yes	1.8884	No
Occupation	0.8255	No	0.00001	Yes
Economical status	0.00001	Yes	0.00078	Yes

Statistical analysis:

To analyze the data SPSS- version 23 was used and calculated by using chi-square test

The study shows that there is significant association / relation of level of knowledge and practice with some selected socio demographic variables. The finding of the study shows that there was significant association between education level and knowledge on neonatal care (p = <0.00001) and economic status (p = 0.00001). No association was observed between Knowledge and age group (p = 0.1657), parity (p = 0.014) and occupation (p = 0.8255).

The study shows that there is significant association / relation of level of practice with some selected socio demographic variables. The finding of the study shows that there was significant association between parity of the mother and practice on neonatal care (p = < 0.00001) and occupation of the mother (p =0.0000.1) and no association with age group (p = 1.828), education (p = 1.8884) and economical status p = 0.00078) 0.00001).

DISCUSSION:

In present study out of 200 participants 121 (60.5%) were between the age group of 20-27 years, 120 (60.5%) of the participants are primipara, 43.0% participants had obtained primary level of education, 169 (84.5%) participants were housewives, 100 (50.0%) of the participants belongs to middle class family. Only 53 (26.5%) of the study participants have adequate knowledge about neonatal care, 108 (54.0%) of the participants having adequate practice.

The present study was conducted to assess the knowledge and practice of postnatal mothers on neonatal care. Sample size was 200. Data was collected using structured questionnaire. Majority of the mothers had satisfactory knowledge and adequate practice on newborn care.

In Nepal a similar study revealed that 38.7% mothers

had excellent knowledge on neonatal care. In Udipi most of the mothers had appropriate knowledge about neonatal care [13].

A study conducted in outskirts of Kolkata, west bengal had shown that most of the mothers had satisfactory knowledge (91.5%) about newborn care and majority of them had adequate practice (54%) [14]. A descriptive study to assess the knowledge on postnatal mothers regarding essential newborn care in badarpur, Delhi had revealed that out of 50 postnatal mother's majority (34) of the mothers had average knowledge scores, only 6 of them had above average scores and 10 of them had scored below average score [15].

CONCLUSION:

The study concludes with an estimation of satisfactory level of knowledge and adequate level of practice on essential newborn care with the participants included in the study. The study indicates the requirement of an awareness programme on essential newborn care – a programme that contains all the components of essential newborn care available to all the people irrespective of their socio-economic status. Hence the maternal knowledge and practice about newborn care place a major role in prevention of neonatal deaths. Some socio demographic factors may bear association with the knowledge and practice of their socio-demographic factors may bear association with the knowledge and practice of the mothers. Educating the mothers and also their family members play an important role.

REFERENCES:

- Black RE, Cousens S, Johnsons HL, et al. Global regional, and national causes of child mortality in 2008: a systemic analysis. Lancet 2010;375: 1969-1987.
- World health organization. Make every mother and child count. The world Health Report 2005, Geneva.2005

- Lawn JE, Cousens S, Zupan j. 4 million neonatal deaths: When? Where? Why? Lancet 2005; 365:891-900.
- 4. Black RE, Morris SS, Bryce J. Where and why are 10 million children dying every year? Lancet 2003; 361: 2226- 2234.
- 5. UN Population Division. World population prospects (2008 revision). UNO.2009 [cited 2011 August]. Available from: http://esa.un.org/peps/peps_interpolateddata.htm
- 6. World Health Organization. Neonatal and Perinatal Mortality: Country, Regional and Global Estimates. WHO 2006.
- Irene V et al, Infant- Parenting Knowledge, Practices and Problems in the Central Areas of a Rural Municipality in Relation to Parent's Demographic Characteristic s and Their Infants, Health Conditions, Partuat; 10: 2009-2010
- Narayanan I et al. The Components of Essential New born Care. BASICS II (USAID) 2004 JUN [cited 2011 Aug 22]. Available from: https://www.usaid.gov/pop_health/
- 9. Dadhich J, Paul V. State of India's newborn New Delhi. National Neonatology Forum and Washington DC. Save the children, US 2004.

- World Health Organization. Essential New born Care, Report of a Technical Working Group Trieste, WHO.25-2 APRIL, 1994
- 11. D. Kumar et al ., Neonatal mortality in India. Rural and Remote Health Submitted: 23 November 2007, 7 : 833. (Online), 2007, Available from: https://www.rrh.org.au/.
- 12.nhm.gov.in/images/pdf/programmes/child/health/g uidelines/India_Newborn_Action_Plan(INAP).p df
- 13. Sushila Devi Bhandari, Knowledge and Practice of Postnatal Mothers on Newborn Care at Hospital Setting, ARC Journal of Nursing and Healthcare (AJNH), 2016; 2(1): 25-3.
- Megadipa mandal, Anuradha Ghosh Evaluation of awareness of neonatal care practices among postnatal mothers in a teritary care hospital Clin ObstetGyneol Reprod Med,2016 Volume 295): 1-5
- 15. Priyanka Bansal, Merlin mary James (2016) A Descriptive Study to assess the knowledge of Postnatal Mothers regarding essential Newborn Care in a Selected Health Centre, Badarpur in Delhi.