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AWARENESS REGARDING NEONATAL CARE AMONG POSTNATAL MOTHERS ATTENDING TEACHING HOSPITAL, CHITWAN

Sujata Shrestha*1, Parita Shrestha2 and Pratima Koirala3

¹Department of Nursing, Chitwan Medical College-Teaching Hospital, Bharatpur Chitwan, Nepal. ^{2,3}Department of Child Health Nursing, School of Nursing, Chitwan Medical College, Bharatpur Chitwan, Nepal.

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*Corresponding Author Sujata Shrestha

Department of Nursing, Chitwan Medical College-Teaching Hospital, Bharatpur Chitwan, Nepal.

ABSTRACT

Background: In many countries around the world, neonatal deaths are so commonplace that children are not even named until they survive their first month of life. Most of the neonatal deaths are preventable if their mothers are aware and provide proper newborn care. The study was carried out with the aim to find out the level of awareness regarding neonatal care among postnatal mothers at Teaching Hospital, Bharatpur-10, Chitwan. Methods: A descriptive cross sectional study design was used to measure the level of awareness among 80 postnatal mothers attending in Chitwan Medical College Teaching Hospital, Bharatpur-10, Chitwan by using enumerative sampling technique. Data was collected by using structured face to face interview schedule from dated 2018 June 20- 2018 July 4 and was analyzed through descriptive and inferential statistics. Results: Among a total of 80 respondents, 45% of respondents belonged to age group 20-27 years, while majority of respondents 72.5% were from urban areas, most of the respondents 97.5% were literate, 62.5% were primipara. Mean score of respondents' awareness regarding neonatal warmth and breastfeeding was 77.5 and 60.7 respectively followed by hygiene, danger signs and immunization 63, 68 and 42 respectively. Conclusion: It is concluded that more than half 58.8% of postnatal mothers had adequate level of awareness on neonatal care while statistical significant association was found between the level of awareness with religion p=0.012 and place of residence p=0.025. However, awareness regarding frequency of breastfeed in a day, position after burping, sleeping hours in a day, time and frequency of urination and meconium passed after birth, time for neonatal bath, hypothermia and disease preventable vaccine name after birth was still inadequate. Hence, there is need of awareness program by government and health personals on neonatal care to postnatal mothers.

KEYWORDS: Awareness, Neonatal care, Postnatal mothers.

INTRODUCTION

Neonatal period is the most crucial period in the life of infant because it is vulnerable time in completing many of the physiological adjustment required for extra uterine existence. Prompt and correct action for neonatal care can make the difference in life and death or between a normal healthy life and one with serious handicap "A healthy start in life" make the entire life healthy. The development of any country is reflected by their mortality rate like maternal mortality rate and infant mortality rate and neonatal mortality rate. Globally 2.6 million children died in the first month of life approximately 7,000 newborn deaths every day. The majority of all neonatal deaths 75% occur during the first week of life, and about 1 million newborns die within the first 24 hours, which account for 46% of all deaths among children of under 5. More than 80% of newborn deaths can be attributed to three main causes: prematurity, complications during childbirth

neonatal infections.^[1] Despite of the global efforts to develop and promote the newborn health by conducting different programs, plans and strategies, the neonatal mortality and morbidity rate is still high in developing countries like Nepal, Infant mortality rate was 28.4 deaths per 1,000 live births, Neonatal mortality rate was 21.1 deaths per 1,000 live births.^[2] These rates can be reduced only with the good care practices that are given to the newborn by the mother.

MATERIALS AND METHODS

Descriptive, cross-sectional research design by using Non- probability, enumerative sampling technique was used to collect the data on awareness regarding neonatal care among postnatal mothers. The population for the study was the mothers of newly born babies upto 28 days of life who were delivered in Chitwan Medical College. After obtaining ethical clearance from CMC-Institutional review committee, data was collected by using structured

interview schedule through face to face interview from a total of 80 postnatal mothers within the period of 2 weeks (2018 June 20- 2018 July 4).

RESULTS

Among a total of 80 respondents, 45% of respondents belonged to the age group of 20-27 years. Majority

83.75% of respondents were from Hindu religion. More than half (51.2%) of the respondents belonged to joint family. Regarding educational status majority of the respondents 97.5% were literate, among them, 29.5% had secondary level education, more than half of respondents 56.2% got their husband support during neonatal care.

Table 1: Respondents' Socio-demographic Characteristics.

| Variables | Number | Percentage |
|---------------------------------|-------------|------------|
| Age of the respondent | | |
| Below 20 years | 14 | 17.5 |
| 20-27 years | 36 | 45.0 |
| 28-35 years | 14 | 17.5 |
| Above 35 years | 16 | 20.0 |
| Religion | | |
| Hinduism | 67 | 83.75 |
| Buddhism | 11 | 13.75 |
| Christianity | 2 | 2.5 |
| Place of residence | • | |
| Rural | 22 | 27.5 |
| Urban | 58 | 72.5 |
| Types of the family | • | |
| Nuclear | 39 | 48.8 |
| Joint | 41 | 51.2 |
| Educational status of th | ne responde | ent |
| Literate | 78 | 97.5 |
| Illiterate | 2 | 2.5 |
| Educational level of the | responden | nt (n=78) |
| General literate | 16 | 20.5 |
| Basic level | 18 | 23.1 |
| Secondary level | 23 | 29.5 |
| Bachelor and above | 21 | 26.9 |
| Educational status of th | ne husband | |
| Literate | 76 | 95.0 |
| Illiterate | 4 | 5.0 |
| Educational level of the | husband (| |
| General literate | 13 | 17.1 |
| Basic education | 19 | 25.0 |
| Secondary education | 26 | 34.2 |
| Bachelor and above | 18 | 23.7 |
| Occupation of the respo | ondent | |
| Employed | 37 | 46.2 |
| Unemployed | 43 | 53.8 |
| Yearly income of the re | spondent (| |
| ≤ 1 year | 27 | 73.0 |
| > 1 year | 10 | 27.0 |
| Husband's support dur | | al care |
| Yes | 45 | 56.2 |
| No | 35 | 43.8 |

Median= 26, $(Q_3-Q_1) = (31.75-22)$, Min=16, Max=37

Table 2: Respondents' Obstetric Characteristics.

| Variables | Number | Percentage |
|------------------------------------|--------|------------|
| Number of children | | |
| 1 | 50 | 62.5 |
| 2 | 16 | 20.0 |
| 3 | 9 | 11.25 |
| More than 3 children | 5 | 6.25 |
| Age of newborn baby | | |
| Less than 7 days | 64 | 80 |
| More 7 days | 16 | 20 |
| Previous history of neonatal death | | |
| Yes | 1 | 1.3 |
| No | 79 | 98.7 |
| Antenatal visits by the respondent | | |
| 2 times | 3 | 3.75 |
| 3 times | 3 | 3.75 |
| 4 times | 42 | 52.5 |
| More than 4 times | 32 | 40.0 |
| Types of delivery | | |
| Normal | 50 | 62.5 |
| Cesarean section | 30 | 37.5 |

Table 2 reveals that, more than half 62.5% of the respondents had one child. Regarding the previous history of neonatal death, majority of respondents 98.7% had no previous history of neonatal death where only 1.3% had history of neonatal death due to respiratory

distress. More than half 52.5% of respondents had visited hospital for 4 times during pregnancy. Likewise regarding delivery of the child, 62.5% of the respondents had normal delivery.

Table 3: Respondents' Awareness regarding Neonatal Care: Warmth, Breastfeeding, Physiological Functions and Hygiene.

| Items | | Correct statements | Frequency | Percentage |
|-------------------------|---|---|-----------|------------|
| nth | Way to keep neonate warm | By covering the baby with atleast 2 layers of cotton clothes | 72 | 90.0 |
| Warmth | Benefits of skin to skin contact | It helps to prevent from hypothermia in low birth weight babies | 52 | 65.0 |
| | First feed for the baby | Colostrum feed | 68 | 85.0 |
| | Time for breastfeed after delivery | Within 1 hour | 41 | 51.2 |
| | Meaning of exclusive breastfeeding | Providing only breast milk to the child upto 6 months | 77 | 96.2 |
| Breastfeeding | Frequency of breastfeed in a day | ency of breastfeed in a 10-12 times | | 20.0 |
| eastfe | Reason for burping It prevents the child from vomiting and helps in proper digestion of milk after feeding | | 67 | 83.8 |
| Br | Best position after burping | Lateral position | 22 | 27.5 |
| | Neonatal sleep per day | 16-18 hours | 28 | 35.0 |
| S | Timing for passage of urine after birth | Within 1 day | 2 | 2.5 |
| ıction | Frequency of urination in a day | 6-8 times | 2 | 2.5 |
| al fu | Timing for passage of meconium | Within 3 days | 30 | 37.5 |
| Physiological functions | Measure to be taken before breastfeeding | Wash each breast with lukewarm water before breastfeeding | 58 | 72.5 |
| | Appropriate time for hand washing | Before touching to the baby | 74 | 92.5 |
| yg ie | Reason to keep cord clean | To prevent from infection | 60 | 75.0 |

| and dry | | | |
|---|---|----|------|
| Way to keep cord clean | Cleaning with boiled lukewarm water | 51 | 63.8 |
| Way of cleaning eyes | Cleaning the eye separately with clean cotton | 52 | 65.0 |
| Time for neonatal bath | After umbilical cord stump fall off | 11 | 13.8 |
| Way of cleaning the baby for first few days | By using boiled lukewarm water | 47 | 58.8 |

Table 3 represents respondent's response on items like neonatal care: warmth, breastfeeding, physiological functions and hygiene.

Table 4: Respondents' Awareness regarding Neonatal Care: Danger Signs and Immunization. n=80.

| | Items | Correct statements | Frequency | Percentage |
|--|--|---|-----------|------------|
| <u>s</u> | Umbilical cord infection | Redness and pus at umbilical cord | 69 | 86.25 |
| r Sign | Eye infection | Redness, swelling and discharge with pus from the eye | 44 | 55.0 |
| Danger | Jaundice | Yellowish discoloration of skin and sclera of eyes | 74 | 92.5 |
| ı | Recognition of losing warmth/ hypothermia | Baby remain cold even after keeping in mother's chest | 32 | 40.0 |
| Reas | son for neonatal immunization | To protect the child from some diseases | 56 | 70.0 |
| Disease preventable vaccine given at the time of birth | | Tuberculosis preventive vaccine | 11 | 13.8 |

Table 5 represents respondent's response on items neonatal: danger signs and immunization.

Table 5: Respondents' Awareness Mean Score According to Different Areas of Neonatal Care.

| Domains | Max. Score | Mean ± SD | Mean (%) |
|-------------------------|------------|------------------|----------|
| Warmth | 2 | 1.55 ± 0.782 | 77.5 |
| Breastfeeding | 6 | 4.18 ± 2.317 | 60.7 |
| Physiological functions | 4 | 0.79 ± 1.281 | 19 |
| Hygiene | 7 | 4.43 ± 2.956 | 63 |
| Danger signs | 4 | 3.12 ± 1.37 | 68 |
| Immunization | 2 | 0.84 ± 0.808 | 42 |
| Total | 25 | 14.91 ± 9.51 | 55.03 |

Table 5 reveals that, respondents' awareness on mean score and mean percentage related to neonatal care according to awareness areas in which respondents overall mean percentage on awareness score was 55.03%

with highest score 77.5% in awareness on warmth and minimum score 19% in awareness on physiological functions.

Table 6: Respondents' Level of Awareness regarding Neonatal Care n=80.

| Level of awareness | Frequency | Percentage |
|--------------------|-----------|------------|
| Adequate ≥ 14 | 47 | 58.8 |
| Inadequate < 14 | 33 | 41.2 |
| Total | 80 | 100 |

Median value: 14, Maximum Score: 21, Minimum Score: 7, $Q_{1=12}$ $Q_{3=16}$

Table 6 reveals that, 58.8% of the respondents had adequate level of awareness whereas only 41.2% of the

respondents had inadequate level of awareness on neonatal care.

Table 7: Association between Respondents' Level of Awareness regarding Neonatal Care and Selected Variables.

| Variables | | Level of Awareness | | 2.52 | |
|------------------------|------------|--------------------|------------|----------|---------|
| | | Adequate | Inadequate | χ^2 | P Value |
| | | n (%) | n (%) | | |
| Age of the respondents | < 26 years | 24 (54.3) | 21 (45.7) | 0.866 | 0.352 |
| | ≥ 26 years | 22 (64.7) | 12 (35.3) | | |
| Place of residence* | Rural | 8 (36.4) | 14 (63.6) | 6.275 | 0.012 |
| | Urban | 39 (67.2) | 19 (32.8) | | 0.012 |

| | | | | 1 | |
|--|-------------------|-----------|-----------|-------|-------|
| Types of the family | Nuclear | 21 (53.8) | 18 (46.2) | 0.755 | 0.385 |
| | Joint | 26 (63.4) | 15 (36.6) | 0.755 | 0.363 |
| D-11-1 | Hinduism | 43 (64.2) | 24 (35.8) | 5.015 | 0.025 |
| Religion* | Non- Hinduism | 4 (30.8) | 9 (69.2) | 5.015 | 0.023 |
| Educational status of the husband** | Literate | 44 (57.9) | 32 (42.1) | 0.639 | 0.451 |
| Educational status of the husband*** | Illiterate | 3 (75.0) | 1 (25.0) | 0.039 | 0.431 |
| E | Employed | 23 (62.2) | 14 (37.8) | 0.331 | 0.565 |
| Employment status | Unemployed | 24 (55.8) | 19 (44.2) | | |
| Husband's support during neonatal care | Yes | 26 (57.8) | 19 (42.2) | 0.040 | 0.841 |
| Husband's support during neonatal care | No | 21 (60) | 14 (40.0) | 0.040 | 0.641 |
| Number of children | 1 child | 26 (52.0) | 24 (48.0) | 2.507 | 0.113 |
| | More than 1 child | 21 (70.0) | 9 (30.0) | 2.307 | 0.115 |
| Antenatal visits by the respondent | ≤ 4 times | 25 (52.1) | 23 (47.9) | 2.201 | 0.138 |
| | ≥ 4 times | 22 (68.8) | 10 (31.2) | 2.201 | 0.138 |

Significance at 0.05 *Significant ** Fisher's Exact test

Table 7 reveals that, there was a statistical significant association between religion and place of the respondents. However it showed that, there was no statistical significant association between age, type of family, educational status, employment status, husband's support, number of children and antenatal visits of the respondents.

DISCUSSION

The findings of the present study revealed that 45% of postnatal mothers belonged to the age group 20-27 years. It also revealed that more than half 58.8% of the postnatal mothers have adequate level of awareness. The findings of the study also showed that the mean score awareness of six domains along with mean percentage was 55.03%. Similar study conducted by Nepal and Thapa (2017) found that 78% of mothers had inadequate knowledge.^[3]

The findings of the present study found that, there was statistical significant association between the level of awareness and socio-demographic variable i.e. religion p=0.012 and place of residence p=0.025, similar supportive findings was found in the study conducted by Nepal & Thapa (2017), where significant association was found between parity of mother (P-value<0.04) and place of birth (P-value<0.04) to knowledge on newborn care and parity of mother to the practice of newborn care (P-value<0.03).

CONCLUSION

The study concluded that, despite of this advanced technology in health care still neonatal morbidity and mortality is high and there is need to create awareness to the mothers regarding neonatal care in the community.

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