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# Assess the Knowledge of Newborn Care among Postnatal Mothers in Selected Area of Reckjoani, Rajarhat, Kolkata

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Abstract: A descriptive study was conducted on assessment of knowledge of newborn care among the postnatal mothers in selected area of Recjoani, Rajarhat, Kolkata. The objectives were to assess the knowledge level of postnatal mother about newborn care in terms of breastfeeding and prevention of hypothermia and to determine the association of knowledge with selected demographic variables (age, education, occupation, income, types of family). The Non probability purposive sampling technique was used to select 30 samples. Data were collected using structured interview schedule. The findings of the study revealed that 43.33% participant were belong to 23-27 yrs age, 83.33% participants were studied secondary level education and 83.33% participants were having problem in breastfeeding technique, poor knowledge on advantage of breast feeding and causes, assess and home management of hypothermia. Hence these findings provide researcher with new insight to look into why the mothers do not practice their knowledge to have a better outcome of the neonate. The study has implications in nursing education, nursing practice, nursing administration and nursing research. Based on the findings further studies were recommended. This work will help for understanding of the factors for maintenance of breastfeeding and to prevent hypothermia among the postnatal mothers in rural area.

Keywords: Knowledge, Postnatal Mothers, Newborn, Breast feeding

## 1. Introduction

Essential care of the normal healthy neonates can be based provided by the mothers under supervision of nursing personnel or basic /primary health care providers. About 80% of the newborn babies require minimal care. The normal term babies should be kept with their mothers rather than in a separate nursery. Bedding in or rooming in promotes better emotional bondage, prevents hypothermia and cross infections and also establishes breast feeding easily. Mother participates in the nursing care of the baby and develops self confidence in her. This also reduces the demand of nursing personnel. Breast feeding is the best natural feeding and breast milk is the best milk. The basic food of infant is mother's milk. Hypothermia is considered as silent killer in neonates. It increases the neonatal morbidity and mortality. Maintenance of warmth of the neonates enhances their survival. Thermal protection of the newborn babies is considered as one of important essential neonate care. Major causes of neonatal mortality are birth asphyxia, feeding difficulties, sepsis and hypothermia. As per some research conducted in 2005 in some area of West Bengal by the faculty of Medical College & Hospital they found the result as infant mortality rate in Kolkata is 41 per 1000 births and Neonatal Mortality rate are found that 25.2 per 1000 life births. During our posting in R. G. Kar Medical College & Hospital we had seen various causes of difficulty in breast feeding as the majority were the primigravida and they were not able to wrap the baby properly. Due to this all reason we have identify this problems as our problem statement.

# 2. Literature Survey

Literature review related to Breastfeeding, Literature related to hypothermia and Literature related to newborn care.

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**Problem Definition:** A study to assess the knowledge of newborn care among postnatal mothers to selected area of Reckjoani, Rajarhat, Kolkata

Methods/Approach

Research Approach: Survey approach

Research Design: Descriptive survey design

**Setting:** Community Reckjoani, Rajarhat, Kolkata. Rational for selecting the area are-Familiar with setting

• Feasibility of conducting the study

• Administrative approval and co operation from others.

• Availability of the participants

Population: Postnatal mothers in Reckjoani, Rajarhat.

**Sample and sample size**: Postnatal mothers (baby within 6 months), sample size of 30

**Data Collection and Technique**: Structured interview schedule of postnatal mothers on demographic variables and knowledge related to breast feeding and prevention of hypothermia among newborn. Interviewing technique.

## 3. Results /Discussion

Findings of Demographic Variables: 43.33% (13out of 30) participants are in the age group of 23-27 yrs, All participants (30) are housewife.83.33% (25 out of 30) participants education is on secondary level. Major finding related to knowledge level of postnatal mothers: 83.33% participants were having problem in breastfeeding technique, 86.67% participants have less knowledge on advantage of breast feeding 73.33% have poor knowledge on causes of hypothermia, 83.33% participants not able to assess hypothermia

#### 4. Conclusion

As per the Research findings of present study the following conclusion were drawn. The majority of postnatal mothers have poor knowledge determined by structured knowledge questionnaire. Hence these finding provide researcher with new insight to look into why the mothers do not practice their knowledge to have better outcome in newborn care. It is very much important to increase the knowledge of postnatal mothers in order to give newborn care, breastfeeding and prevention of hypothermia. So we have decided to give them health education related to breast feeding importance as it is consider as an important nutritional aspect for newborn & identify and prevent hypothermia which is a very common health problem in neonates within 6 months.

# 5. Future Scope

This study can be implicated on several areas like nursing practice, nursing education, nursing administration and nursing research. The study has implications in nursing education, nursing practice, nursing administration and

nursing research. Based on the findings further studies were recommended. This work will help to understand the factors for maintenance of breastfeeding and to prevent hypothermia among the postnatal mothers in rural area, urban area and hospitals with a large group.

## **References**

- [1] Nursing care of infants and children.8th edition. New Delhi; Elseivier; 2004. Pg no-53 3.
- [2] Datta Parul. Pediatric Nursing.2nd edition. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd; 2010. Pg no.85-86.
- [3] Basavanthappa BT. Textbook of Midwifery & Reproductive Health Nursing. New Delhi: Jaypee Publishers and distribution (P) Ltd; 2009.
- [4] UNICEF Data: Monitoring the Situation of Children and Women. The neonatal period is the most vulnerable time for a child [Internet]. UNICEF; 2016 [Updated: Jan 2016; cited 2017 January 20] Available from: https://data.unicef.org/.
- [5] The World Health Organization. Thermal Control of the Newborn: a Practical Guide. Maternal health and safe motherhood programme [Internet]. Geneva: (WHO/FHE/MSM/97.2); 1997 [cited 2016 October 20].1-8. Available from: http://apps. who.int/iris/bitstream/
- [6] World Health Organization. Newborn care at birth. Available from: http://www.who. int/maternal\_child\_adolescent/topics/newborn/care\_at\_birth/en/97
- [7] Indian Pediatrics. Perinatal and Neonatal mortality-A Hospital Based Study [Internet].1998 [cited 2016 October 22].35: 683-684. Available from: http://apps.who.int/iris/bitstream/
- [8] Mondal Md. Nazrul Islam, Hossain Md. Kamal. Factors Influencing Infant and Child Mortality: A Case Study of Rajshahi District, Bangladesh. Kamla-Raj J Hum Ecol [Internet].2009 [cited 2017 January 18]; 26 (1): 31-32. Available from: http://www.krepublishers. com/02-Journals/JHE/JHE-26-0-000-09
- [9] Sodemann M, Nielsen J et al. hypothermia of newborns is associated with excess mortality in the first 2 months of life in Guinea-Bissau, West Africa. US National Library of Medicine National Institutes of Health [Internet].2008 Aug [cited 2016 December]; 13 (8): 980-6. Availablefrom: http://onlinelibrary.wiley. com/
- [10] Interprofessional Education and Research Committee of the Champlain Maternal Newborn Regional Program (CMNRP. Newborn Thermoregulation Self Learning Module. Champion maternal newborn regional program [Internet].2013 [cited 2015]; Pg no.3-11. Available from: http://www.cmnrp.ca/uploads/documents/.
- [11] Mishra Jayanti, Pati Sanghamitra. Importance of thermoregulation in the Newborn: role of brown fat. Orissa Journal of medical biochemistry [Internet].2004 [cited 2015 December 30]; (1). Available from: http://www.saihp.org.in/
- [12] R Farhadi, Sadegh R M. Incidence of neonatal hypothermia at birth in hospitals of Islamic Republic of Iran: A review Journal of Pediatrics Review

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- Mazandaran University of Medical Science. J Pediatr Rev [Internet] 2014 [cited 2016 march 28]; 2 (2): 21-30. Available from: http://jpr. mazums. ac. ir/article-1-75-en. pdf
- [13] Karsten Lunze, Bloom David E. The global burden of neonatal hypothermia: systematic review of a major challenge for newborn survival. Journal List BMC 98 Med [Internet] 2013 Jan 31 [cited 2015 November 29]; 11: 24. Available from; https://www.ncbi. nlm. nih. gov/
- [14] UNICEF. Progress for children: a world fit for children statistical review [Internet]. New York: United Nations Children's Fund; 2007 [updated 2016; cited 2016 Dec 23]; 68. Available from: https://www.unicef.org/publications/
- [15] Denise F. Polit, Cheryl Tatano Beck. Nursing Research: Generating and Assessing Evidence for Nusing Practice. Ninth edition. New Delhi. Wolters Kluver (India) Pvt. Ltd; 2012. Pg 732.
- [16] Irwin M. Rosenstock, Marshall H. Becker. Health Belief Model (HBM). health education and behaviour.1988 [cited 2017 December 30]; 15 (1): 1. Available from: https://en. wikipedia. org/wiki/Health\_belief\_model
- [17] Pradeep Raj Jeffrey, Kumar T Dr. Sathish, Kumar Dr. Suganthy. Prevalence of hypothermia among normal term neonates in a South Indian city and assessment of practice and knowledge risk factors among mothers a hospital based crosssectional study. Indian Journal of Medical Research and Pharmaceutical Sciences [Internet]. December 2015 [cited 2016 October 23]; 2 (12): 21-22. Available from; http://jpr. mazums. ac. ir/article-1-75-en. pdf J Pediatr Rev.2014; 2
- [18] MF de Almeida, R Guinsburg, GA Sancho, IR Rosa, ZC Lamy, FE Martinez. Hypothermia and early neonatal mortality in preterm infant. US National Library of Medicine National Institutes of Health. J Pediatric [Internet].2014 [cited 2016 Dec 30]; 164 (2): 271-5. Available from https://www.ncbi.nlm.nih.gov/pubmed/
- [19] Mullany LC, Katz J, Khatry SK. Incidence and seasonality of hypothermia among newborns in southern Nepal [Internet].2010 Jan [cited 2016 Sep 28]; 164 (1): 71-7. Available from: https://www.ncbi.nlm.nih.gov/pmc/articles//99
- [20] Mullany LC, Katz J, Khatry SK. Risk of mortality associated with neonatal hypothermia in southern Nepal. Arch Pediatr Adolesc Med [Abstract].2010 [cited2016Sep28]; 164 (7): 1Available from: https: //www.ncbi. nlm. nih. gov/pubmed
- [21] Agarwal Siddharth, Sethi Vani. Srivastava Karishma, Jha Prabhat, Baqui Abdullah H. Human touch to detect hypothermia in neonates in Indian Slum Dwellings. Indian Journal of Pediatrics [Internet].2010 [cited 2017 Jan 30]; 77 (1): 759-762. Available from: http://medind.nic.in/icb/t10/i7/icbt10i7p759.pdf.
- [22] Ogunlesi TA, Ogunfowora OB, Adekanmbi FA, Fetuga BM, Olanrewaju DM. Point-of-admission hypothermia among high-risk Nigerian newborns. BMC Pediatr [Internet].2008 [cited 2016 Nov 20]; 8: 40. Available from: http://bmcpediatr.biomedcentral.com/articles/10.1186/1471-2431-8-40

- [23] Zayeri F, Kazemnejad A, Ganjali M, Babael G, Nayeri F. Incidence and risk factors of neonatal hypothermia at referral hospitals in Tehran, Islamic Republic of Iran. E [Internet].2007 [cited 2016 Nov 29]; 13 (6): 1308-18. Available from: http://applications.emro.who.int/emhj/1306/13\_6\_2007\_1308\_1318.pdf
- [24] Priyadarshanie M. N, Pethiyagoda K. Mothers' Knowledge Regarding Neonatal Baby Care. GSTF Journal of Nursing and Health Care (JNHC) [Internet].2015 [cited 2015 Dec 30]; 2 (1): 14-1. Available from: http://dl6. globalstf. org/index. php/jnhc/article/view/1174
- [25] Madhvi Pramuditha, Wickremasinghe Rachitha. Mothers' knowledge and practices on thermoregulation of neonates in Sri Lanka. European International Journal of Applied Science and Technology [Internet].2014 [cited 2015 Sep 20]; 1 (4): 55-69. Available from: https://www.researchgate. net/publication/265097031
- [26] Gupta Pratibha, Srivastava VK. Newborn care practices in Urban Slums of Lucknow City, UP. Indian J Community Med [Internet].2010 [cited 2016 Mar 100 30]; 35 (1): 82-85. Available from: https: //www.ncbi. nlm. nih. gov/pmc/articles/PMC2888375/
- [27] M. Sonavane. A study to assess the practices affecting thermoregulation in newborn immediate after birth within four hours. Sinhgad e Journal of Nursing. June 2014 [cited 2016 February 26]; IV (I): 1-3. Available from: http://www.sinhgad.edu/
- [28] Khanal Vishnu, Gavidia Tania. Poor Thermal Care Practices among Home Births in Nepal: Further Analysis of Nepal Demographic and Health Survey. Article in PLoS ONE [Internet].2014 [cited 2017 January 20]; 9 (2): 1-3. Available from: http://journals. plos. org/plosone/article?id=10.1371/journal. pone.0089950
- [29] Tura Gurmesa, Fantahun Mesganaw. Neonatal care practice and factors affecting in Southwest Ethiopia: a mixed methods study. BMC International Health and Human Rights [Internet].2015 [cited 2015 November 20]; 15: 18. Available from: https://bmcinthealthhumrights.biomedcentral.com/
- [30] Sobel Howard L, Silvestre Maria Asuncion A. Immediate newborn care practices delay thermoregulation and breastfeeding initiation. Acta Paediatrica Nurturing the Child [Internet].2011 [cited 2015 Oct 4]; 100 (8): 1127–1133. Available from: https://www.ncbi.nlm.nih.gov/pmc
- [31] Penfold Suzanne, Hill Zelee, Mrisho Mwifadhi. Cross-Sectional CommunityBased Study of Newborn Care Practices in Southern Tanzania. Journal ListPLoS Onev [Internet].2010 [cited 2016 Nov 30]; 5 (12): Available from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3006340/pdf/pone.0015593.pdf
- [32] Hill Zelee, Tawiah-Agyemang Charlotte. Keeping newborns warm: beliefs, practices and potential for behaviour change in rural Ghana. A European Journal 101 Tropical Medicine and International Health [Internet].2010 [cited 2016 Oct 20]; 15 (10): 1118-24. Available from: http://onlinelibrary.wiley.com
- [33] Shrestha T, Bhattarai Saraswoti Gautam. Knowledge and Practice of Postnatal Mother in Newborn Care. J Nepal Med Assoc [Internet].2013 [cited 2017 February

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- 20]; 52 (190): 372-7. Available from: https://www.researchgate.net/publication/259449061
- [34] Bergstrom A, Okong P et al. Immediate maternal thermal response to skin to skin care of newborn. Article in Acta Paediatrica [Internet].2007 [cited 2017 Jan 27]; 96 (5): 655-8. Available from: https://www.ncbi.nlm.nih.gov/pubmed/17462058 38.
- [35] Wondimeneh B. Neonatal hypothermia and associated factors among new born admitted to neonatal intensive care unit of governmental hospitals in Addis Ababa, Ethiopia [Internet].2016 [cited2017January30]; 3 (1): 1-2. Available from: http://etd.aau.edu.et/bitstream/123456789/10133/1/39.
- [36] Seyum T, Ebrahim E. Proportion of neonatal hypothermia and associated factors among newborns at Gondar University Teaching and Referral Hospital, Northwest Ethiopia. Hospital based cross sectional study. General Medicine: Open Access, Gen Med [Internet]. 2015 [cited 2016 December 29]; 3 (4): 198. Available from: http://dx. doi. org/10.4172/2327-5146.1000198 40.
- [37] Delavar MA, Akbarianrad Z. Neonatal Hypothermia and Associated Risk Factors at Baby Friendly Hospital in Babol, Iran. Ann Med Health Sci Res [Internet].2014 [cited 2016 Dec 30]; 4 (Suppl2): S99–S103

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