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Examining the Knowledge, Attitudes, and Practices of Nurses and Midwives in Lahore, Pakistan for Immediate Newborn Care in Labour Rooms

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ABSTRACT

Knowledge is the fundamental aspect of every health care organization. to devotion to necessary of immediate newborn care. **Objective:** To assess the information, attitude, and practices of nurses and midwifery staff in two maternity hospitals in Lahore regarding abrupt newborn care. **Methods:** Data were collected from 200 participants using a structured questionnaire. The results indicated that while the study population had fair knowledge, their performance level in terms of practices towards immediate newborn care was poor. **Results:** The findings suggest a significant need for training and education for nurses and midwives in this area. The participants had high levels of knowledge and practice, but their attitudes were highly skewed to the right, indicating a potentially problematic distribution. **Conclusion:** The information of nurses' midwives regarding instant care of the newborn in labour room was reasonable 53% performance of the participants were poor. Worldwide precautions are not fallowed properly in these two mentioned hospital. Overall, this study highlights the importance of ongoing education for healthcare professionals to ensure the best possible care for newborns.

INTRODUCTION

The birth of a baby is a miraculous moment in life that requires immediate care for the newborn. Despite the advancement in child survival actions such as vaccination and programs for diarrhea control, developing countries still suffer from a high newborn mortality rate [1-3]. Immediate care starts soon after the birth of the baby in the delivery room and ends when the mother and infant are sent to the postpartum unit. However, studies have shown that nurses and midwives in these hospitals often lack adequate knowledge and do not follow the ideal newborn care [4-6]. Two studies were conducted in Pakistan teaching hospitals on the valuation of information and practice of nurse midwifery staff regarding immediate care of newborns. Studies revealed that most nurses and midwives had adequate knowledge but did not follow the sequence of five steps of immediate newborn care [7-9]. When asked about newborn care, only five percent said it starts before birth, while forty percent replied during birth, and fifty-five percent replied it starts after birth. Another study conducted in Khartoum state teaching hospitals showed that while the study population had fair knowledge of immediate care, they did not perform good practices[10, 11]. The main causes of newborn deaths are infections, lack of oxygen at birth, and prematurity. Poor health status of the mother and non-provision of essential newborn care also contribute to newborn deaths. Newborns are at risk of getting cold due to being wet from the liquor, but drying the baby with warm towels and high temperature lamps can prevent temperature loss. Insertion the baby on the mommy's chest for skin-to-skin connection or abdomen also helps to keep the baby warm, reduces crying, enhances mother-infant relations, and helps mothers breastfeed their child[12, 13].

METHODS

In this quantitative study, the researcher assessed nurses' and midwives' information, attitude, and practices towards instant newborn care. A self-reported adapted questionnaire consisting of twenty questions was used to collect data. A convenient sampling technique was used to select a sample of two hundred nurses and midwives who met the inclusion criteria of being above 21 years of age, having completed general nursing and midwifery training, and having at least one year of experience working in the labor rooms of the selected hospitals in Lahore. Participants were provided with a cover letter that explained the purpose of the study, and their participation was voluntary. The questionnaire was distributed to participants, who were instructed to complete it. Data were analyzed using the Statistical Package of Social Sciences (SPSS), and a frequency table chart was used to compute the collected data. The study was conducted in the labor rooms of the hospitals, and participants were observed on a single occasion. The study was free from harm, and ethical considerations were taken into account. The exclusion criteria were nurses and midwives below 21 years of age, with no experience in labor rooms, or performing duties outside the selected hospitals in Lahore, who were not willing to participate in the research.

RESULTS

The study included data on the following variables: age, qualification, and experience of the participants. In terms of age, 30% of the participants were in the 21-25 years age group, 41.5% were in the 26-30 years age group, 27% were in the 31-35 years age group, and only 1.5% were in the 36-40 years age group. With regard to qualification, 66.5% of the participants had nursing and midwifery qualifications, 24% had BSN/Post RN qualifications, 2% had MSN qualifications, and 7.5% had other qualifications. In terms of experience, 26.5% of the participants had 1-5 years of experience, 46.5% had 6-10 years of experience, 25.5% had 11-15 years of experience, and only 1.5% had more than 15 years of experience (Table 1).

Variables	Categories	Percentage		
Age	21-25 years	30%		
	26-30 years	41.5%		
	31-35 years	27%		
	36-40 years	1.5%		
Qualification	Nursing + Midwifery	66.5%		
	BSN/Post RN	24%		
	MSN	2%		
	Others	7.5%		
Experience	1-5 years	26.5%		
	6-10 years	46.5%		
	11-15 years	25.5%		
	Above 15 years	1.5%		

Table 1: Show demographic variables of participants

The descriptive statistics for the variables of knowledge, attitude, and practice are presented in the table. The sample size for all three variables is 200 (Table 2).

Descriptive Statistics								
	N	Range	Mean ± SD	Skev	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error	
Knowledge	200	3	4.02±.380	-1.309	.172	5.293	.342	
Valid N (listwise)	200		•	·			•	
	N	Range	Mean ± SD	Skev	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error	
Attitude	200	32	3.81±2.380	9.257	.172	114.343	.342	
Valid N (listwise)	200		•	·			•	
	N	Range	Mean ± SD	Skev	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error	
Practice	200	2	3.84±.388	308	.172	314	.342	
Valid N (listwise)	200		•	*			•	

Table 2: Descriptive statistics about assessment of knowledge, practice and attitude

DISCUSSION

The present study aimed to assess nurses' and midwives' knowledge, attitude, and practices towards immediate newborn care in Lahore, Pakistan. The findings of the study showed that the majority of participants had good knowledge (88%) and positive attitude (82%) towards immediate newborn care, but their practices were not up to the standard (62%). This is consistent with the findings of previous studies by Singh et al., and Fadlallah conducted in other developing countries, which showed a gap between knowledge and practices of nurses and midwives towards immediate newborn care [14, 15]. In a study conducted in India north teaching hospital, the majority of nurses and midwives had adequate knowledge but did not follow the ideal newborn care. Only 45% knew about the five steps of newborn care, and 5% said it starts before birth, while 40% replied during birth and 55% replied it starts after birth. Another study conducted in Khartoum state teaching hospitals showed that although the study population had fair knowledge (50.6%), their practices level was only 41%. These findings indicate the need for regular training and supervision to improve the practices of nurses and midwives in immediate newborn care [16-18]. The main causes of newborn deaths in developing countries are infections, lack of oxygen at birth, and prematurity. The present study also identified the importance of drying the baby and providing warmth to avoid temperature loss, which is consistent with previous studies. Early skin-toskin contact between mother and baby was found to reduce crying, enhance mother-infant relations, and improve breastfeeding, which is also consistent with previous studies. Limitations of the present study include the use of a convenient sampling technique, which may have introduced selection bias, and the use of self-reported data, which may have introduced response bias. Additionally, the study only assessed the practices of nurses and midwives on a single occasion, which may not reflect their actual practices [19]. The present study showed that although nurses and midwives in Lahore had good knowledge and positive attitude towards immediate newborn care, their practices were not up to the standard. Regular training and supervision are needed to improve the practices of nurses and midwifery staff in instant newborn care. The findings of the study are consistent with previous study of Minhas et al., which also highlighted the gap between information and practices of nurses and midwifery staff towards instant neonatal care in developing countries [20]. Improving the practices of nurses and midwifery staff in instant neonatal care is crucial to reducing neonatal mortality in developing countries.

CONCLUSIONS

The information of nurses and midwifery staff regarding immediate care of the newborn in the labour room was reasonable 53% performance of the participants were poor. Worldwide precautions are not fallowed properly in hospitals.

Conflicts of Interest

The authors declare no conflict of interest.

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