Knowledge and Practice Regarding Breastfeeding among Physician Mothers in Tertiary Care Centre

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ABSTRACT

Introduction: During medical school and residency training, physicians are taught that breastfeeding is the preferred feeding for all infants. Evidence is accumulating that while physician mothers have a high rate of breastfeeding initiation, they face significant obstacles to sustained breastfeeding. Aims: This study aimed to assess personal breastfeeding intentions and behavior of a diverse group of physician mothers from various medical specialties. Methods: This study was a questionnaire-based descriptive cross-sectional study conducted among physician mothers in a tertiary care center located in Kathmandu, Nepal between October 2024 to April 2025. The questionnaire contained 35 items about maternal demographics, breastfeeding practices, environmental factors, and breastfeeding advocacy. Descriptive statistics, frequency tables, and percentages were calculated using SPSS. Results: Ninty-two physician mothers participated in the study. Majority of them had fairly adequate knowledge towards various correct breastfeeding practices, however only 12% were able to successfully breastfeed exclusively whereas most of the mothers chose to give a combination of formula and breastfeeding. Only 73 (79.3%) doctors reported that they felt they actively promote breastfeeding among their women patients. Conclusion: Even mothers who are medical professionals experience, and often cannot overcome, difficulties with breastfeeding. Women in medicine need enhanced breastfeeding support and services/resources. Advocacy is needed, in our work environments, for better breastfeeding support not only for our physician colleagues, but also for all lactating employees within our institutions.

Keywords: Breastfeeding, Knowledge, Physician Mothers

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INTRODUCTION

Breastfeeding is the universally recommended modality of infant feeding.¹ Current recommendations are exclusive breastfeeding (EBF) for the first 6 months of life, followed by continued breastfeeding throughout at least for the first two years.¹.² Exclusive breastfeeding (EBF) is defined as infant receiving only breast milk and no other liquids or solids except vitamins, minerals, or medications.¹ Breastfeeding is also considered to be the most effective health measure to reduce child mortality. It is known that one's physician's breastfeeding advice effectively increases mothers' breastfeeding initiation and continuation.³ Despite excellent breastfeeding initiation rates, female physicians seem to also be at risk of premature breastfeeding cessation before achieving their own individual breastfeeding duration (BFD) goal.⁴ Female physicians have some particular challenges in balancing work and family issues, partly owing

to workload, call duty and remuneration issues. The most common reasons to wean children often are return to work, diminishing milk supply, and lack of time to express milk. It has been reported that residents and physicians with personal experiences of breastfeeding were more confident providing support and advice to breastfeeding patients.5 However, the strongest predictor of physicians' clinical breastfeeding advocacy is their personal breastfeeding behavior.⁶ It is known that physician mothers' breastfeeding behavior impacts their anticipatory guidance to their patients, which in turn influences patients' breastfeeding initiation and continuation. Therefore, studying physician mothers' breastfeeding behavior is important, as it impacts not only the well-being of themselves and their families, but eventually the well-being of their patients and patients' families, impacting their anticipatory guidance to patients and, therefore, influences patients' breastfeeding behavior. Hence this study aims to assess per-

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sonal breastfeeding intentions and behavior of a diverse group of physician mothers from various medical specialties in a tertiary care center.

METHODS

This study was a questionnaire-based descriptive cross-sectional study conducted among physician mothers in a tertiary care center located in Kathmandu, Nepal. Criteria for participation consisted of being a female doctor having at least one biological child. Eligible participants were included whether they were in training (resident or fellow) or had completed training (faculty at the study center). Participants were included regardless of their infant-feeding methods (formula, breast milk, or combination). All physician mothers who gave consent were eligible for the study and those who did not respond were excluded from the study. The duration of the study was six months from October 2024 to April 2025 after ethical approval. The initial questionnaire was developed and piloted among a dozen physicians after review of instruments used in previous similar breastfeeding studies. The questionnaire was then converted to an online format that contained 35 items about maternal demographics, breastfeeding practices, environmental factors, and breastfeeding advocacy. The questionnaire was then sent as a self-designed Google Form to the doctors enrolled in the study electronically (via E-mail, WhatsApp, Viber, and Messenger). Ethical clearance was taken from the Institutional Review Committee of Kathmandu Medical College (Ref. 16102024/11). Convenience sampling technique was employed to select participants. The total sample size calculated after adding a non-response rate of 10 %, sample size was 78. All doctors who filled out the survey gave digital consent to take part in the survey. The questionnaire included a combination of both open and closed-ended questions and consisted of two parts. The first part included the maternal demographics like age and the second part consisted of breastfeeding advocacy and the breastfeeding practices followed by these doctor mothers. This included whether they were familiar with the right time of breastfeeding initiation, understanding of exclusive breastfeeding, weaning practices, reasons and challenges for discontinuation of breastfeeding. The data were entered and analyzed with IBM SPSS Statistics for Windows, version 20 (IBM Corp., Armonk, N.Y., USA). Descriptive statistics, frequency tables, and percentages were used.

RESULTS

A total of 92 physician mothers participated in the study. The mean participant age at the time of the study was 34.3 years and Table I summarizes maternal demographic characteristics. Majority of participants reported living in a joint family (63.1%). Participants came from a variety of specialties and most had completed their medical training. The participants had one to three children, ranging from 52 days to 28 years of age (mean of 6.4 years), at the time of the study.

| Variable | n | Percentage (%) |
|-----------------------|----|----------------|
| 1. Participant's age | | |
| 20-29 | 12 | 13.0 |
| 30-39 | 49 | 53.3 |
| 40-49 | 27 | 29.4 |
| 50+ | 4 | 4.3 |
| 2. Type of Family | | |
| Nuclear | 34 | 36.9 |
| Joint | 58 | 63.1 |
| 3. Medical Speciality | | |
| Anesthesiology | 5 | 5.4 |
| Basic Sciences | 29 | 31.5 |
| Dermatology | 3 | 3.3 |
| Emergency Medicine | 4 | 4.3 |
| ENT | 3 | 3.3 |
| General Surgery | 1 | 1.1 |
| Internal Medicine | 2 | 2.2 |
| Microbiology | 4 | 4.3 |
| Ophthalmology | 3 | 3.3 |
| Obstetrics-Gynecology | 7 | 7.6 |
| Pathology | 2 | 2.2 |
| Paediatrics | 4 | 4.3 |
| Psychiatry | 3 | 3.3 |
| Radiology | 3 | 3.3 |
| Residents | 19 | 20.6 |
| 4. Number of Children | | |
| 1 | 55 | 59.8 |
| 2 | 36 | 39.1 |
| 3 | 1 | 1.1 |

Table I: Characteristics of Study Participants (n=92)

Most of the children (n = 74; 80.4%) were born after the participants had completed their medical training (Table II). The majority of them (71.7%) had extended their maternity leave however reported to have to take unpaid leave. Of the 92 responses, only 12% were able to successfully breastfeed exclusively whereas most of the mothers chose to give a combination of formula and breastfeeding (73.9%). The study also found that there is poor flexibility of schedule for breastfeeding doctors on return to work with $1/3^{rd}$ participants having to go back to night duties.

Only 73 (79.3%) doctors reported that they felt they actively promote breastfeeding among their women patients (Table III). Of the 92 respondents to the question, 53 (57.6%) reported that they actively promote breastfeeding among female house staff (colleagues, staff, residents) and only 13% reported strongly encouraging new mothers to breastfeed.

| Practice Component | Frequency | Percentage (%) |
|---|--|--|
| 1. Maternal career stage at the time of childbin | rth | |
| During training | 18 | 19.6 |
| After job enrollment | 74 | 80.4 |
| 2. Did you extend your maternity leave? | | |
| Yes | 66 | 71.7 |
| No | 26 | 28.3 |
| 3. Infant feeding method | | |
| Exclusive breastfeeding till 6 months | 11 | 12.0 |
| Mixed feeding | 68 | 73.9 |
| No breastfeeding at all | 13 | 14.1 |
| 4. Schedule of work after maternal leave | | |
| Full-Time | 87 | 94.6 |
| Half-time | 4 | 4.3 |
| Did not return | 1 | 1.1 |
| 5. Did you have flexibility of schedule upon ret | turn to work? | • |
| Yes | 29 | 31.5 |
| No | 32 | 34.8 |
| Somewhat | 31 | 33.7 |
| 6. Were you put on night duties? | | |
| Yes | 38 | 41.3 |
| No | 54 | 58.7 |
| 7. How would you scale your mental health du | iring breastfe | eding period? |
| Severely depressed | 3 | 3.3 |
| | 3 | 3.3 |
| Depressed | 62 | 67.4 |
| | | |
| Depressed | 62 27 | 67.4 29.3 |
| Depressed Not depressed 8. How would you rate your energy le | 62 27 | 67.4 29.3 |
| Depressed Not depressed 8. How would you rate your energy leperiod? | 62 27 evel during | 67.4 29.3 breastfeeding |
| Depressed Not depressed 8. How would you rate your energy leperiod? Often Tired | 62 27 evel during 75 | 67.4 29.3 breastfeeding 81.5 |
| Depressed Not depressed 8. How would you rate your energy leading period? Often Tired Sometimes Tired | 62 27 evel during 75 17 | 67.4 29.3 breastfeeding 81.5 18.5 |
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| Depressed Not depressed 8. How would you rate your energy leader of the period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed | 62 27 evel during 75 17 0 s breastfeedin | 67.4 29.3 breastfeeding 81.5 18.5 0 og period? 72.8 |
| Depressed Not depressed 8. How would you rate your energy leader period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed | 62 27 evel during 75 17 0 s breastfeedin 67 23 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 |
| Depressed Not depressed 8. How would you rate your energy loperiod? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed | 62 27 evel during 75 17 0 s breastfeedin 67 23 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 |
| Depressed Not depressed 8. How would you rate your energy leader of the period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 | 67.4 29.3 breastfeeding 81.5 18.5 0 or period? 72.8 25.0 2.2 |
| Depressed Not depressed 8. How would you rate your energy leader of the period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? Yes | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 2.2 |
| Depressed Not depressed 8. How would you rate your energy leader of the period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during the your stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? Yes No | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 2.2 |
| Depressed Not depressed 8. How would you rate your energy leperiod? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? Yes No 11. Did you have sufficient time to express mile | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 34 58 k during worl | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 2.2 37.0 63.0 k hours? |
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| Depressed Not depressed 8. How would you rate your energy leader of the period? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? Yes No 11. Did you have sufficient time to express mill Did not express Never Occasionally Sometimes | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 34 58 k during work 58 11 9 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 2.2 37.0 63.0 k hours? 63.0 12.0 9.8 13.0 |
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| Depressed Not depressed 8. How would you rate your energy leperiod? Often Tired Sometimes Tired Rarely Tired 9. How would you rate your stress level during Very Stressed Sometimes Stressed Rarely Stressed 10. Did you pump milk in the workplace? Yes No 11. Did you have sufficient time to express mill Did not express Never Occasionally Sometimes Often Always | 62 27 evel during 75 17 0 s breastfeedin 67 23 2 34 58 k during work 58 11 9 12 2 | 67.4 29.3 breastfeeding 81.5 18.5 0 ng period? 72.8 25.0 2.2 37.0 63.0 k hours? 63.0 12.0 9.8 13.0 2.2 0 |

| Never | 4 | 4.3 | |
|---|----|------|--|
| Occasionally | 10 | 10.9 | |
| Sometimes | 7 | 7.6 | |
| Often | 9 | 9.9 | |
| Always | 4 | 4.3 | |
| 13. Were your colleagues supportive of your breastfeeding efforts? | | | |
| Always opposed my efforts | 8 | 8.7 | |
| Usually opposed my efforts | 39 | 42.4 | |
| Neither supportive nor oppositional | 5 | 5.4 | |
| Usually supportive | 17 | 18.5 | |
| Always supportive | 16 | 17.4 | |
| Colleagues were not aware | 7 | 7.6 | |
| 14. Was discontinuing of breastfeeding due to demands at work? | | | |
| Yes | 73 | 79.3 | |
| No | 19 | 20.7 | |
| 15. Were you satisfied with the duration that you were able to breast-feed? | | | |
| Yes | 25 | 27.2 | |
| No | 67 | 72.8 | |

Table II: Characteristics of Pregnancies and Infant Feeding (n=92

| Advacacy Common anto | | Dougoutogo (9/) | | | | |
|---|---------------|------------------------|--|--|--|--|
| Advocacy Components | n | Percentage (%) | | | | |
| 1. Awareness of country's maternal leave policy | | | | | | |
| Yes | 37 | 40.2 | | | | |
| No | 55 | 59.8 | | | | |
| 2. Awareness of breastfeeding law for working women | | | | | | |
| Yes | 14 | 15.2 | | | | |
| No | 78 | 84.8 | | | | |
| 3. Frequency of talking to a new breastfeeding mother | | | | | | |
| Usually | 26 | 28.3 | | | | |
| Sometimes | 19 | 20.7 | | | | |
| Rarely | 11 | 11.9 | | | | |
| Never | 36 | 39.1 | | | | |
| 4. How strongly do you encourage a new mother to breastfeed? | | | | | | |
| Strongly encourage | 12 | 13.0 | | | | |
| Encourage | 65 | 70.7 | | | | |
| Neither encourage nor discourage | 15 | 16.3 | | | | |
| Discourage | 0 | 0 | | | | |
| 5. Do you feel you actively patients? | promote breas | tfeeding in your women | | | | |
| Yes | 19 | 20.7 | | | | |
| No | 73 | 79.3 | | | | |
| 6. Do you actively encourage breastfeeding in your female colleagues, staff, juniors? | | | | | | |
| Yes | 53 | 57.6 | | | | |
| No | 39 | 42.4 | | | | |

Table III : Breastfeeding Advocacy (n=92)

Table IV shows a fairly adequate knowledge among physician mothers towards various correct breastfeeding practiceswith p-value 0.001. Most of the respondents had the right knowledge on the importance of starting breastfeeding early and of rooming in the mother and baby together (88%). It was interesting to note than half of the participants were of the opinion that bottle feeding was not harmful, and majority also believed it was okay to use pacifiers (58.7%). However, 80.4% were aware of the consequences of pre-lacteal feeds and 100% participants knew that the first breast milk, colostrum, contains antibodies and is beneficial for the baby. Approximately half of the respondents 48 (52.2%) had knowledge about the correct technique of burping and knew the right age of starting semi-solids (n = 51, 55.4%).

| Advocacy Components | n | Percentage (%) |
|--|----|-------------------|
| 1. Believes breastfeeding should be started as early as possible | 87 | 94.6 |
| 2.Believes colostrum is beneficial | 92 | 100 |
| 3.Believes babies should not be given pre-lacteal feeds | 74 | 80.4 |
| 4. Believes in rooming in | 81 | 88.0 |
| 5. Believes in demand feeding | 64 | 69.6 |
| 6. Knows the correct frequency of feeding | 49 | 53.3 |
| 7. Believes feeding bottles are harmful | 52 | 56.5 |
| 8. Does not believe in the use of pacifier | 38 | 41.3 |
| 9. Knows the correct technique of burping | 48 | 52.2 |
| 10. Knows the right age of starting semi-solids | 51 | 55.4 |

Table IV: Beliefs of Physician Mother's Breastfeeding Practices (n=92)

DISCUSSION

The benefits of breastfeeding for both women and infants are well established.7 Despite recommendations from the World Health Organization, initiating and sustaining lactation remains a challenge for many women.8 Several studies that have examined the breast-feeding practices of physicians have found that the quality and quantity of counseling and support that they provide is related to their own self-perceptions regarding their effectiveness in breastfeeding.9 It is reported that primary care physicians, specifically those specializing in internal medicine, paediatrics, obstetrics-gynecology, with personal or spousal experience were more self-confident in providing breast-feeding promotion and support. 10 However, physicians who are mothers face substantial challenges that may undermine efforts to sustain lactation after they return to work. It also has been demonstrated that the career satisfaction of physicians who are mothers was negatively affected by the short duration of maternity leave, associated financial losses, and inflexible work schedules.

In this study, all of the physician mothers were reasonably aware of the benefits of breastfeeding however the level of knowledge regarding national breastfeeding policy and workplace policy was poor. 72.8% respondents reported to be un-

satisfied with the duration that they were able to breastfeed and 79.3% of them stated work-related demands as the reason for discontinuation of breastfeeding.

Consistent with other physician studies^{11,12,13} we found high breastfeeding initiation rates in this study. However, our data also demonstrate that while 96% of infants were breastfed at birth and intent to breastfeed for at least 12 months, only 12% of infants were exclusively breastfed till 6 months of age. This discrepancy and the work-related factors associated with exclusive breastfeeding suggest that work-related factors not only influence physician mothers' breastfeeding behavior but also might have a larger impact than their education and intentions on their breastfeeding advocacy on their patients and colleagues, family members and juniors.

Similar to other studies^{14,15} reporting that discontinuation of breastfeeding was due to work-related demands was associated with shorter duration of both exclusive and any breastfeeding. Maternal level of energy while breastfeeding, maternal satisfaction on achieving breastfeeding goals, availability of time to express milk at work, access to appropriate place at the workplace to express milk at work, and perceived level of support for breastfeeding efforts from colleagues are factors related to discontinuity of breastfeeding amongst physician mothers. Their own breast-feeding success might enhance the potential of female physicians as advocates and sources of credible information regarding breast-feeding.

LIMITATIONS

Results of the study reflects only a small population of physician mothers and some of the participants' nature of work does not put them directly in contact with breastfeeding patients for advocacy.

CONCLUSION

Modifiable, work-related factors such as providing longer paid maternal leave, accommodating schedules to allow for pumping, and establishing a dedicated private space may improve the ability of physicians who are mothers to continue lactation after they return to work. With a breastfeeding conducive environment physician mothers' it further positively impacts their anticipatory guidance to their patients, which in turn influences patients' breastfeeding initiation and continuation.

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