

Journal of

Social Behavior and Community Health





The Effect of Telephone Health Training on Perceived Stress of Mothers with Premature Infants Discharged from Hospital

Hossein Tavangar ^a , Marjan Alichi ^b , Zahra Pourmovahed ^{a, c*}

- ^a Department of Nursing Education, Research Center for Nursing and Midwifery Care, Non-communicable Diseases Research Institute, School of Nursing and Midwifery, Shahid Sadoughi University of Medical Sciences, Yazd, Iran ^b Department of Nursing, School of Nursing and Midwifery, Shahid Sadoughi University of Medical Sciences, Yazd, Iran
- ^c Department of Health Education and Promotion, Social Determinants of Health Research Center, School of Public Health, Shahid Sadoughi University of Medical Sciences, Yazd, Iran

ARTICLEINFO

ORIGINAL ARTICLE

Article History:

Received: 16 Dec 2023 Revised:29 Jan 2024 Accepted: 03 Feb 2024

*Corresponding Author:

Zahra Pourmovahed

Email:

movahed446@yahoo.com

Tel:+98 9133511600

Citation:

Tavangar H, Alichi M, Pourmovahed Z. The Effect of Telephone Health Training on Perceived Stress of Mothers with Premature Infants Discharged from Hospital. Journal of Social Behavior and Community Health (JSBCH). 2024; 8(1): 1228-1235.

ABSTRACT

Background: Premature birth is a global health issue leading to major stress in mothers who will be able to get answers to many of their questions at home through a phone call. This study aimed to investigate the effect of telephone health training on the perceived stress of mothers with premature infants discharged from the hospital.

Methods: This quasi-experimental study was conducted on 60 mothers referring to Shohada-ye Kargar Hospital (Yazd, Iran) in 2022. They were selected using a purposive sampling method and then randomly assigned to the control and intervention groups. Data collection was accomplished with the Perceived Stress Questionnaire and demographic questionnaire. Telephone training was performed in the intervention group. The control group received ordinary care at discharge time. Data were analyzed with SPSS22 using paired t-test, independent t-test, and chi-square test.

Results: The mean perceived stress of mothers was 25.10 ± 2.32 and 25.33 ± 3.12 , in the intervention and control group before the intervention, respectively. These scores were 21.24 ± 1.83 and 24.14 ± 2.81 , respectively after the intervention, and they decreased significantly in the intervention group (P = 0.03).

Conclusion: Telephone health training is regarded as an efficient and low-cost method for reducing the perceived stress of mothers with premature infants discharged from the Neonatal Intensive Care Unit. Improving maternal and neonatal health is suggested.

Keywords: Telephone training, discharge, perceived Stress, mothers, neonatal intensive care unit.

Copyright: © 2024 The Author(s); Published by Journal of Social Behavior and Community Health. This is an open-access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.



Introduction

Without any guidelines or reliance on cultural and social factors, becoming a mother is a dynamic, learnable, and stressful process (Zareinejad, et al, 2018). The postpartum period is considered as a critical stage influencing the physical and mental health of mothers (Daglar, et al, 2018). The experience of motherhood can occasionally be accompanied by numerous difficulties caused by taking care of the neonate (Javadifar, et al, 2016). Mothers with premature neonates admitted to the Neonatal Intensive Care Unit (NICU)indicate more signs of stress concerning their child's health (Maghare Abed, et al, 2024). The traumatic effect of the premature birth of a neonate on the mother disrupts her ability to think (Cunningham, et al, 2014). Premature neonate refers to the one born before the 37th week of gestation based on the date of the first day of the mother's menstrual cycle (El-Hage, et al, 2012). In Iran, the prevalence of premature birth varies in different cities and it is reported to vary from 5.6 to 13.4% (Chehreh, et al, 2018). Premature neonates have more physical, mental, and psychological difficulties compared to normal neonates (Tellapragada, et al, 2016). The birth of a premature neonate as an emotional crisis can cause a stressful situation in their lives leaving a long-term impact on them (Watson, 2011). In this regard, perceived stress is the main factor affecting the correct performance and responsibility of mothers (Leung, et al, 2010). It includes a reduction in the mother's confidence in her ability to meet her child's requirements satisfactorily and effectively (Partovi, et al, 2019). Perceived stress is rendered an important prerequisite for behavior change, which establishes a connection between awareness and action and can play a moderating role in empowering individuals (Abdi & Kaboodi, 2016). The condition of the premature neonate challenges the mother's perceived stress more than ever, making her self-judgments tinged with feelings of guilt and inefficiency (Behroozi, et al, Neglecting 2013). the emotional and

psychological stress of the mother increases the vulnerability of the neonate and the mother (Abedi, et al, 2017). In this regard, the results of the study by Ionio et al. suggested that mothers are more stressed than fathers immediately after the birth of a premature neonate (Ionio, et al, 2016). Due to the length of the treatment process, there is a need to establish a continuous and dynamic care relationship between the health team and the mothers to improve the quality of life of the mother and neonate and their health (Basharpoor, et al, 2015). Mothers of premature neonates often cannot participate in face-to-face training classes after discharge due to the condition of the neonate. Therefore, health training by phone is emphasized. Telephonic training reduces the cost and time of access to care and leads to the improvement of the relationship between patients and care providers (Maleki, et al, 2022). By using communication resources, telephone calls cause the development of educational care, counseling care, therapeutic care, self-management, quality of care as well as quality of life at home. Telephone training by maintaining continuous communication active participation among health care providers, patients, and families as a crucial part of care services leads to modifying incorrect health behaviors, reducing the rate of re-hospitalization and hospital visits, saving money and time, and satisfying vulnerable patients. Post-discharge training by telephone is an easy and cost-effective method compared to face-to-face training (Hasan Zadeh LifShagard, et al, 2013). Telephones exist in many patients' homes and can be used in substantial aspects of health care such as education, emotional support, and information communication (Lee, 2003). Families can get answers to many questions they have at home through a phone call(de Klerk, et al, 2005). Nowadays, to reduce family visits and their unnecessary crowding behind the closed doors of the NICUs, a huge amount of information can be transferred to them in a short time using communication technology such as the telephone.



In this way, a solution was found to solve the problem of information communication and as a result to deal with their stress. Non-face-to-face communication has created opportunities for care to be removed from the monopoly of clinics and hospitals and transferred to the daily residential place of patients at home. Considering the problems in the care of premature neonates and the stress of mothers and its destructive effects, as well as the lack of proper care of premature neonates after discharge, there is a possibility of serious problems in this regard. Consequently, the present researchers embarked on conducting this study to explore the effect of telephone health training on the perceived stress of mothers with premature neonates after discharge from the hospital to improve the health of mothers and neonates.

Methods

This quasi-experimental study with a beforeafter design and a control group was conducted in Shohada-ye Kargar Hospital, Yazd. The samples were selected using the targeted sampling method. For this purpose, 60 mothers with premature newborns were selected based on the inclusion and exclusion criteria of the study in 2022. Then, using random allocation software, they were assigned to two intervention and control groups. The inclusion criteria were: the neonate with a fetal age of 30-36 weeks, the neonate being physiologically stable, the absence of any congenital anomalies, the mother being Iranian and literate, having access to a landline or mobile phone, and willingness to participate in the study. Exclusion criteria were: unavailability of mothers after discharge, having a history of giving birth to a premature neonate and taking care of him in a NICU or at home, and unwillingness to continue cooperation. The sample size was estimated to be 27 mothers in each group via studying the guidelines and using the formula for calculating the means. Considering possible subject attrition (10%) and according to a similar study, 30 individuals were studied in each group (Latifnejad, et al, 2011). The significance level of 0.05 and the power of the test of 0.80 were considered.

$$\frac{n = (Z_{1-\alpha/2} + Z_{1-\beta})^{2} (S_{1}^{2} + S_{2}^{2})}{(\mu_{1} - \mu_{2})^{2}}$$

$$\frac{n = (3.96 + 3.64)^{2}(5.15 + 5.48)}{(4.77)^{2}}$$

The demographic information questionnaire and Cohen's perceived stress questionnaire were applied to glean the required data. This questionnaire was prepared by Cohen et al. (1983) and entails 14 items. It is used to measure perceived general stress in the past month and measures controlling, overcoming, and coping with mental pressure and experienced stress through examining responses, thoughts, and feelings about stressful events. This questionnaire has been translated into various languages and standardized in many countries. Each item is scored on a 5-point Likert scale as follows: never = 0, almost never = 1, sometimes = 2, often = 3, and most of the time = 4. Items 4 to 7, 9, 10, and 13 are scored inversely and the maximum score is 56. A higher score indicates greater stress. for the Cronbach's α was 0.85questionnaire (Cohen, et al, 1983; Asghari, et al, 2013). After approval of the study proposal and obtaining permission from the Committee of Ethics in Human Research at the university, the researcher introduced herself to the neonate's parents and provided essential explanations about the objectives of the research. Additionally, the researcher ensured the participants confidentiality and anonymity of the mothers' information obtained written consent, and took two hand-line and cell phone numbers from them. During the intervention, the researcher communicated with only one specific number in all the calls which was already known to the intervention family. Post-discharge was performed through telephone calls on the first, third, fifth, seventh, and tenth days after discharge. Moreover, mothers were reminded that



they could call at any time during the day if needed. At the beginning of each phone conversation, the parties reviewed a portion of the previous call together to ensure both an accurate understanding of the previous conversations and the nature of the real person on the phone. Each phone conversation took 15 to 30 min. The educational content of the conversations was considered based on the latest protocols of the Ministry of Health, similar studies, and consultation with the neonatologist, and the nurse in charge of the NICUs. There was no other

intervention for the control group besides routine medical care. The control and intervention groups 'questionnaires were refilled via telephone calls on the fourteenth day following discharge. Data were analyzed with SPSS22 using independent t-test, paired t-test, and chi-square (X^2) .

Results

The content of the telephone conversations with the mothers of the intervention group is displayed in Table 1.

Table 1. The content of the telephone conversation with the mothers of the intervention group Session **Content** Breastfeeding training, ways to increase breast milk and store it, breast care, hand washing and personal 1 hygiene in neonate care and milking, and skin-to-skin contact between mother and neonate. Examining the condition of vital signs of the neonate and jaundice, respiratory condition, urination, and 2 defecation pattern, bathing, and administering medicine. Early signs of the neonate's sickness, the neonate's consciousness level, encouraging the mother to express her feelings, needs, and desires, discussing the condition of the premature neonate, and the ways of care-3 taking at home. Colic pains, infant massage, reflux and prevention of vomiting, infant sleep patterns, the time needed to visit a specialist for examination and re-examination, and neonatal screenings. Strengthening the self-confidence of mothers, encouraging them to increase their skills in taking care of the 5 neonate, requesting for help of persons around them, answering questions, and summarizing.

The mean and standard deviation of mothers' age was 25.23 ± 1.31 in the intervention group and 24.11 ± 1.15 in the control group along with other

demographic information, no significant difference between the two groups was observed (Table 2).

Table 2. Comparison of demographic information of neonates in two intervention and control groups, n = 60

Group	Intervention $n = 30$	Control $n = 30$	P-value	
Descriptives	$Mean \pm SD$	Mean ± SD	r-value	
Fetal age (week)	33.15 ± 1.82	32.05 ± 1.51	0.82	
Age at discharge (day)	20.23 ± 1.94	18.10 ± 2.33	0.66	
Birth weight (g)	1980.32 ± 185.10	1900.21 ± 150.26	0.93	
Weight at discharge (g)	1995.15 ± 192.25	1950.17 ± 176.54	0.75	

The results indicated that there was no statistically significant difference between the two groups in terms of education level, mother's occupation, and type of delivery (Table 3).

The mean perceived stress of mothers decreased significantly after the intervention in the intervention group (Table 4) (P = 0.03).



Table 3. Comparison of mothers' education level, occupation, and type of delivery in two intervention and control groups

Variable		Intervention group $N = 30$	Control group $N = 30$	P-value
Education level	High school diploma and less Associate diploma and BS/BA MSc/MA and PhD	8 (26.66) 21 (70.00) 1 (3.34)	9 (30.00) 18 (60.00) 3 (10.00)	0.84*
Mother's occupation	Housewife Self-employed Employed	23 (76.66) 0 (0) 7 (23.34)	21 (70.00) 3 (10.00) 6 (20.00)	0.72*
Type of delivery	CS Normal vaginal delivery	4 (13.33) 26 (86.67)	3 (10.00) 27 (90.00)	0.91*

^{*} Chi-square

Table 4. Comparison of perceived stress in intervention and control groups before and after intervention **Intervention group** Control group **Parameter** N = 30N = 30P-value **Descriptive** Mean ± SD Mean ± SD Perceived stress before intervention 25.10 ± 2.32 25.33 ± 3.12 0.84*Perceived stress after intervention 21.24 ± 1.83 24.14 ± 2.81 0.02*

0.03**

P-value

Discussion

Higher levels of stress were experienced by mothers of premature neonates due to caring for premature neonates after discharge as well as being in emotional situations. The results of this study demonstrated that the perceived stress of mothers had a significant decrease in the experimental group after the intervention, compared to the control group, suggesting the effectiveness of telephone training in mothers with premature neonates. Telephone training led to improvement of mothers' skills in the intervention group regarding post-discharge care, and as a result, their stress decreased.

Consistent with the results of the present study, Osman et al. revealed that an educational video about postpartum stress and a 24-hour support hotline to provide immediate answers to mothers' concerns in the post-discharge period reduces mothers' perceived stress (Osman, et al, 2014). In the study by Azizi et al., it was found that a significant percentage of newly trained mothers

trained after giving birth experienced less stress in comparison with the control group (Azizi, et al, 2010). The study by Jafarzadeh on the effect of telephone counseling on the stress of mothers with premature neonates proved that the mean stress score of the intervention group was significantly lower than the control group. Considering the positive effects of telephone training diminishing the stress of mothers with premature neonates, it was suggested to use this support method to decrease mothers' stress (Jafarzadeh, et al, 2019). In a study examining the impact of telephone monitoring for mothers of premature neonates discharged from the hospital rehospitalization of neonates, it was discovered that readmission four weeks after the intervention was significantly lower in the intervention group compared to the control group. Furthermore, hospitalization was significantly lower in the intervention group than in the control group in the third month following the intervention. As a result, education by telephone was introduced as a cost-

0.85**

^{*} Independent t-test

^{**} Paired t-test



effective way to encourage and support mothers of premature neonates after discharge (Ahmadpour-Sefidkoohi, et al, 2022); the case is in line with the results of this study. In this regard, Asghari et al. (2021) expressed that it is expected that after the development of legal, professional, and ethical telephone infrastructures, training integrated into the neonatal care programs admitted in the NICU. The use of this low-cost and economical method is recommended to reduce the stress of mothers (Asghari, et al, 2021). In one study regarding the effect of education and empowerment of mothers with premature infants on their health and quality of life, it was detected that there was no significant difference between the control group and intervention group after training, which is not consistent with the results of the current study (Hosseinpour, et al, 2022).

After hospitalizing the newborn in the NICU, mothers frequently feel powerless and helpless; therefore, they may be more stressed and vulnerable to emotional difficulties than mothers of full-term babies (Clottey and Dillard, 2013). previous studies about this topic manifested that mothers with premature newborn birth and NICU admission significantly felt more stressed than their husbands (Ionio, et al, 2016). Regarding the effectiveness of telephone training in reducing the stress of mothers participating in this research, it can be presented that the training in baby care skills results in acquiring more knowledge of mothers about how to take care of their infant and comprehending the strengths and weaknesses. They can modify their weaknesses and try to reinforce their strengths. Awareness about abilities assists them in utilizing more efficient and appropriate methods in dealing with problems and, as a result, reduces their stress. Considering the positive effect of telephone training on decreasing mothers' stress, it is suggested to empower mothers by implementing such programs to effectively communicate with their infants and acquire the necessary skills for caring for them after discharge from the hospital. More studies should be conducted in the field of strategies to reduce stress in mothers of premature neonates.

One of the limitations of the current research was the individual differences of mothers that could affect their stress. This limitation was overcome by randomization as much as possible. Besides, this study was conducted only in a hospital in Yazd, central Iran, which restricts the generalizability of the findings, thereby jeopardizing the external validity of the study.

Conclusion

The results of the present study revealed that telephone health training is an effective and low-cost method for decreasing the perceived stress of mothers with premature infants discharged from NICUs. It is recommended for improving maternal and neonatal health. By comprehensive intervention strategies in the form of educational activities in health care systems to reduce mothers' stress, it is possible to effectively improve the growth of mental, social, and emotional health of mothers and neonates in the post-discharge period.

Acknowledgments

This article was distilled from a Master's thesis on Neonatal intensive nursing Care which has been approved by Shahid Sadoughi University of Medical Sciences, Yazd, Iran. Hereby, we would like to express our gratitude to the honorable Vice-President of Research and Technology of Shahid Sadoughi University of Medical Sciences, Yazd, the officials of Shohada-ye Kargar Hospital, Yazd, as well as the mothers who participated in the research.

Conflict of interests

The authors hereby declare that there is no conflict of interest.

Funding

This study was supported by Shahid Sadoughi University of Medical Sciences, Yazd, Iran

Ethical considerations

The informed consent form was signed by the participants. Participation was considered voluntary and participants' status and other data



written on the questionnaire were not disclosed to keep their data confidential. The Committee of Ethics in Human Research at Shahid Sadoughi University of Medical Sciences, Yazd, approved this research.

Code of ethics

IR.SSU.REC.1400.134

Authors' contribution

Conceptualization, H.T. and Z.P.; Methodology, H.T., Z.P. and M.A.; Analysis, H.T. and Z.P.; Article Writing, Z.P.

Open access policy

JSBCH does not charge readers and their institutions for access to its papers. The full-text download of all new and archived papers is free of charge.

References

- Zareinejad, S., Norouzi, K., Saajedi, F., Rahgooy, A., Norouzi, M., et al. (2018). Evaluation of the relationship between self-efficacy and quality of life in mothers with preterm infants in Kamali hospital of Karaj, Iran, 2015. Iranian Journal of Rehabilitation Research, 4(3), 54-61. [Persian]
- Daglar, G., Bilgic, D., & Aydın Özkan, S. (2018). Depression, anxiety and quality of life of mothers in the early postpartum period. International Journal of Behavioral Sciences, 11(4), 152-159.
- Javadifar, N., Majlesi, F., Nikbakht, A., Nedjat, S., & Montazeri, A. (2016). Journey to motherhood in the first year after child birth. Journal of family & reproductive health, 10(3), 146.
- Maghare Abed, M., Pourmovahed, Z., & Aryaeenezhad, A. (2024). The effectiveness of an educational intervention on maternal role adaptation and anxiety among mothers with preterm infants in neonatal intensive care unit. Payesh (Health Monitor), 23(1), 81-90.
- El-Hage, W., Léger, J., Delcuze, A., Giraudeau, B., & Perrotin, F. (2012). Amniocentesis, maternal psychopathology and prenatal representations of attachment: a prospective comparative study. PloS one, 7(7), e41777.

- Chehreh, R., Karamolahi, Z., Aevazi, A., Borji, M., & Saffar, A. (2018). Prevalence of preterm birth recurrence and related factors in Ilam. The Iranian Journal of Obstetrics, Gynecology and Infertility, 21(10), 20-29.
- Tellapragada, C., Eshwara, V. K., Bhat, P., Acharya, S., Kamath, A., et al. (2016). Risk factors for preterm birth and low birth weight among pregnant Indian women: a hospital-based prospective study. Journal of Preventive Medicine and Public Health, 49(3), 165.
- Watson, G. (2011). Parental liminality: a way of understanding the early experiences of parents who have a very preterm infant. Journal of clinical nursing, 20(9-10), 1462-1471.
- Leung, D. Y., Lam, T. H., & Chan, S. S. (2010). Three versions of Perceived Stress Scale: validation in a sample of Chinese cardiac patients who smoke. BMC public health, 10, 1-7.
- Partovi, L. H., Anboohi, S. Z., Farahani, Z. B., & Mansoor, S. (2019). Effect of family presence on anxiety of acute Coronary Syndrome patients at Cardiac care unit. J Adv Pharm Educ Res, 9.
- Abdi, R., & Kabodi, N. (2016). Moderating role of experiential avoidance in the relationship between anxiety sensitivity and perceived stress. Thoughts and Behavior in Clinical Psychology, 11(40), 57-66. [Persian]
- Behroozi, N., Shahani Yeylaq, M., & Pourseyed, S. M. (2013). Relationship between perfectionism, perceived stress and social support with academic burnout. [Persian]
- Abedi, M., Sabory, E., Rabiepour, S., &Rasoul, J. (2017). The relationship between stress in pregnancy, and pregnancy outcomes: A longitudinal study.
- Ionio, C., Colombo, C., Brazzoduro, V., Mascheroni, E., Confalonieri, E., Castoldi, F., & Lista, G. (2016). Mothers and fathers in NICU: the impact of preterm birth on parental distress. Europe's journal of psychology, 12(4), 604.
- Basharpoor, S., Heydarirad, H., Atadokht, A., Daryadel, S. J., & Nasiri-Razi, R. (2015). The role of health beliefs and health promoting lifestyle in predicting pregnancy anxiety among



- pregnant women. Iranian Journal of Health Education and Health Promotion, 3(3), 171-180. [Persian]
- Maleki, A., Mohammadian, M., & Badfar, G. (2022). Effect of telephone counselling on the rate and continuity of exclusive breastfeeding among mothers with late preterm infants: A randomized controlled trial. Hayat, 28(1), 72-84.[Persian]
- Hasan Zadeh LifShagard, M., Tarkhan, M., & Taghi Zadeh, M. E. (2013). Effectiveness of stress inoculation training on perceived stress in pregnant women with infertility. Journal of Holistic Nursing and Midwifery, 23(2), 27-34.[Persian]
- Lee, S. H. (2003). Effects of Using a Nursing Crisis Intervention Program on Psychosocial Responses and Coping Strategies of Infertile Women DuringIn VitroFertilization. Journal of Nursing Research, 11(3), 197-208.
- De Klerk, C., Hunfeld, J. A. M., Duivenvoorden, H. J., Den Outer, M. A., Fauser, B. C. J. M., et al. (2005). Effectiveness of a psychosocial counselling intervention for first-time IVF couples: a randomized controlled trial. Human reproduction, 20(5), 1333-1338.
- Latifnejad Roudsari, R., Rasolzadeh Bidgoly, M., Mousavifar, N., & Modarres Gharavi, M. (2011). The effect of collaborative counseling on perceived infertility-related stress in infertile women undergoing IVF. The Iranian Journal of Obstetrics, Gynecology and Infertility, 14(4), 22-31. [Persian]
- Cohen, S., Kamarck, T., & Mermelstein, R. (1983). A global measure of perceived stress. Journal of health and social behavior, 385-396.
- Asghari, F., Sadeghi, A., Aslani, K., Saadat, S., & Khodayari, H. (2013). The survey of relationship between perceived stress coping strategies and suicide ideation among students at University of

- Guilan, Iran. International Journal of Education and Research, 1(11), 111-118.[Persian]
- Osman, H., Saliba, M., Chaaya, M., & Naasan, G. (2014). Interventions to reduce postpartum stress in first-time mothers: a randomized-controlled trial. BMC Women's health, 14(1), 1-8.
- Azizi, M., Lamyian, M., Faghihzade, S., & Nematollahzade, M. (2010). The effect of counseling on anxiety after traumatic childbirth in nulliparous women; a single blind randomized clinical trial. Journal of Kermanshah University of Medical Sciences, 14(3).[Persian]
- Jafarzadeh, Z. A., Maghsoudi, J., Barekatain, B., & Marofi, M. (2019). Effect of telenursing on attachment and stress in mothers of preterm infants. Iranian Journal of Neonatology, 10(1), 65-71.[Persian]
- Ahmadpour-Sefidkoohi M., Jafarian-Amiri SR., Akbarian-Rad Z., Chehrazi M., Ghanbari-Ghalehsari M., et al. (2022). The Effect of Maternal Telephone Monitoring on the Duration of Breastfeeding in Preterm Infants during the COVID-19 Pandemic. Journal of Isfahan Medical School, 40, 318-24. [Persian]
- Asghari, E., Shirinabadi Farahani, A., Nourian, M., Bonakchi, H., & Gholami, S. (2021). The effects of telenursing on stress in mothers with premature infants. Evidence Based Care, 10(4), 7-16.[Persian]
- Hoseinpour, S., Borimnejad, L., Rasooli, M., Hardani, A. K., & Alhani, F. (2022). The effect of implementing a family-centered empowerment model on the quality of life of parents of premature infants admitted to a neonatal intensive care unit. Iran Journal of Nursing, 34(134), 2-17.[Persian]
- Dillard, D. M. (2013). Post-traumatic stress disorder and neonatal intensive care. International Journal of Childbirth Education, 28(3), 23.