

Breast Feeding Self Efficacy in First Week Post Partum

Anggorowati Anggorowati¹, Elsa Naviati¹, Sari Sudarmiati¹, Fatikhu Yatuni Asmara¹, Dwi Susilowati¹
Nursing Department Faculty of Medicine Diponegoro University
Semarang, Indonesia
anggorowati@fk.undip.ac.id

Abstract

Background: The success of breastfeeding mothers is demonstrated by exclusive breastfeeding for six months. Self-efficacy of breastfeeding mothers determines the success of exclusive breastfeeding
Objective: The objective of the study was to analyze the characteristics of mothers with regard to self-efficacy.
Methods: Cross-sectional research in first-week postpartum, normal delivery, live birth. Sample taken by purposive sampling on 44 postpartum mothers in Public Health Center and hospital in Semarang area. Data were analyzed by linear regression.
Results: The results of the study were mostly high school educated women (56.8%), hospital birth (52.3%), there were self-efficacy differences on the first and third days ($p = 0,032$). Strong characteristic factors influenced the self-efficacy of early breastfeeding initiation ($p = 0,002$) and gravida ($p = 0,013$).
Conclusion: In postpartum women should be done early breast-feeding initiation and before the third day should be given education, family support and nurse / midwife for exclusive breastfeeding.

Keywords: post partum mothers, breastfeeding self efficacy, early breastfeeding initiation

INTRODUCTION

The mother's ability to breastfeed is demonstrated by the production and release of breast milk that is affected by the hormone prolactin and oxytocin. The letdown reflex is the response of the nervous system that causes breastfeeding cells to contract so that the milk inside it is squeezed out, flowing along the milk line, and out through the nipple. The new letdown reflex works when it gets a command from the hormone oxytocin. High levels of the hormone oxytocin maximize the number of breast milk containment (Riordan and Wambach, 2010).

The post partum mother has the task of breastfeeding her baby exclusively for 6 months continuing for up to 2 years. Benefits obtained by breastfeeding the baby, among others, for the mother alone can accelerate the process of uterine involution, reduce the incidence of puerperal bleeding, reduce breast cancer risk. For the baby's own effective breastfeeding is beneficial to meet the nutrients, bonding relationships with his mother, improve the body's defenses (Pilliteri, 2003).

Every postpartum has the potential to exclusively breastfeed but some conditions make the mother unable to breastfeed. Self-efficacy of breastfeeding is one of the factors that influence mothers to have confidence to breastfeed. Confidence for breastfeeding will stimulate the hormone oxytocin so as to improve the smoothness of breast milk.

The experience at the time of giving mother's own self-efficacy. Significant developments occur during the first weeks of the puerperium. Engorgement occurred on the day 1-3 childbirth, the period began to produce milk. On the first day some mothers become less confident because the milk produced is not smooth. Therefore we need to know the difference of self efficacy of breastfeeding mother on the first day and the third day

METHODS

Cross-sectional studies were performed by giving self-efficacy breastfeeding questionnaires to postpartum women with normal delivery. The self-efficacy breastfeeding questionnaire consisted of 12 statements with a maximum score of 48. The efficacy of breastfeeding was good when the score was over 36. Inclusion criteria: first postpartum mother, normal delivery, live birth. Sampling purposively taken at Public Health Center in Semarang and RS Semarang was obtained by 44 postpartum mothers. The study was conducted for 2 months in 2017. Data were analyzed by linear regression. This study has been approved by the medical faculty Diponegoro University Ethic Committee.

RESULTS

Table 1. Characteristics of the puerperal mother and her relationship with Self Efficacy Breastfeeding in First Week

Variable	Mean (min-max)	F (%)	P
Age	28,18 (17-43)		0,050
Education			
Elementary school		2 (4,5%)	0,091
Yunior High School		14 (31,8%)	
Senior High School		25 (56,8%)	
University		3 (6,8%)	
Worker			
Yes		16 (36,4%)	0,476
No		28 (63,6%)	
Place of birth			
Public Health Center		15 (34,1%)	0,077
Hospital		23 (52,3%)	
Maternity Hospital		6 (13,6%)	
Early Breastfeeding Initiation			
Yes		25 (56,8%)	0,002
No		19 (43,2%)	
Gravida	2,11 (1-4)		0,013
Birth weight	3047(1800-4100)		0,211

Figure 1 Example of figure (300 dpi)

Characteristics of postpartum mostly high school educated, mother not working, at the time of IMD and weight of normal baby. Age, IMD, Gravida are associated with the efficacy of breastfeeding. While education, occupation, delivery and weight are not related to the efficacy of breastfeeding.

Table 2. Breast Feeding Self Efficacy on First Week Post Partum

Variable	First Day Post Partum	Thirth Days Post Partum	p value
Breast Feeding Self Efficacy	35 (22-48)	43 (33-48)	0,032

The result of linear regression analysis on table 3:

Table 3.Linear regression analysis

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig
	B	Std Error	Beta		
1. (Constant)	23.993	3.408		7.041	.000
Age	.036	.151	.049	.236	.815
EAB	4.708	1.314	.466	3.583	.001
Gravida	1.348	1.114	.252	1.210	.233
2.(Constant)	24.542	2.457		9.991	.000
EAB	4.721	1.298	.467	3.638	.001
Gravida	1.553	.688	.290	2.258	.029

The result of regression analysis of fit model that is model 2, the variable that have influence to breast feeding self efficacy that is EBI and gravida, regression equation that is

$$\text{Breast feeding Self Efficacy} = 24.54 + 4.72 * \text{IMD} + 1.55 * \text{gravida}$$

Value R2 = 0.331, this equation shows the obtained regression model can explain 33.1% efficacy of breastfeeding. The IMD variable is the largest role in the efficacy of breastfeeding (Beta = 0.467).

DISCUSSION

Breastfeeding Self-Efficacy is a postpartum confidence to be able to breastfeed to determine the success of breastfeeding. The perception that breast milk is not enough is still one of the problems in breastfeeding mothers (Sunanda and Nayak, 2017).

The results showed that there were efficacy differences on the first and third days of the puerperium period. An increase of score 6 on the third day. Breast feeding Self-efficacy becomes a predictor of the length of breastfeeding mother (Pollard, Guill, Hanover, and Medical, 2009). The more frecueny breastfeeding mothers the more milk production increases. The results showed that 30-40 mothers in the frequency of breastfeeding is still less than 10 times a day. It is risky for the production of breast milk is less than the need.

Although self-efficacy between the control and intervention groups on the third day there was no significant difference, based on previous studies that the use of the Oxytocin stimulant may increase the volume of 23 ml of milk (Anggorowati, Sutadi, Setyowati, and Koestoer, 2016).

The expectation of continuous use until exclusive ASI indicators can be achieved. The self-efficacy differences appear to result when the intervention is given 4 weeks, as was the previous study on breastfeeding self-efficacy intervention (Otsuka and Taguri, 2014). The

duration of intervention in this study that was only 3 days may result in insignificant results in treated and untreated groups.

The EBI variable has the greatest role in the efficacy of breastfeeding, but it is also gravida. In mothers whose first 30 minutes of breastfeeding had self-efficacy and a higher LACTH score (Gercek, Karabudak, Celik, and Saruhan, 2017). EBI provides an opportunity for the baby to seek his own mother's nipple for 1 hour. The baby reflex will look for his mother's nipple. This study is in line with the Guimaraes study that breastfeeding in the first hour after delivery is related to the level of self-efficacy. In the puerperal mother of other related issues is the support of grandmother (Guimaraes, et al., 2017).

Another study showed that breastfeeding initiation became a self-efficacy predictor such as Yang done (Yang, et al., 2016). In addition to breastfeeding initiation the predictors of intention of breastfeeding, support from husband, support from nurses / midwives, attending antenatal breastfeeding classes, time from childbirth to initiate breastfeeding and previous breast feeding experience. Self-efficacy of high puerperium moms in infants who are exposed in the first hour after delivery.

This study shows that gravida is related to the self-efficacy of breastfeeding mothers, as is the study of Ku CM (Ku and Chow, 2010). It also deals with family income. Study Tavares show that age related to Self-efficacy (Tavares, et.al., 2010). The increasing age of self efficacy is higher. The findings also showed no significant association between per capita income and breastfeeding selfefficacy. The same result was found in studies carried out in England and Brazil, which did not identify such statistical difference either (Tavares, et.al., 2010; McCarter, Spaulding, and Gore, 2009; Zubaran, et.al., 2010).

However, in Turkey there was a statistically significant difference between these variables ($p=0.001$), suggesting that lowincome mothers are vulnerable to poor outcomes in terms of breastfeeding due to decreased selfefficacy (Tokat, Okumus, and Dennis, 2010).

CONCLUSION

On the third day of self-efficacy breastfeeding mothers are higher than at the first day of the puerperium. The postpartum period of the first week determines the success of the mother during breastfeeding.

It needs to be educated and social support from family and health officer (nurse / midwife) to improve self-efficacy of breastfeeding in postpartum.

REFERENCES

- Anggorowati, Sutadi, H., Setyowati, Koestoer, RA. (2016). Effects of Acupoint Stimulation with Digital Massager of Oxytocin on the Breast Milk Production of Working Mothers. *Nurse Media JNurs*, 6(2), 91–100.
- Gercek, E., Karabudak, S., Celik, N., Saruhan, A. (2017). The relationship between breastfeeding self-efficacy and LATCH scores and affecting factors. *J Clin Nurs*, 26(7-8), 994–1004.
- Guimareas, C., Conde, R., Gomes-Sponholz, F., Oria, M., Monteiro, J. (2017). Factors related with breastfeeding self-efficacy immediate after birth in puerperal adolescents. *Acta Paul Enferm*, 30(1), 109–15.
- Ku, C., Chow, S. (2010). Factors influencing the practice of exclusive breastfeeding among Hongkong Chinese women: a quistionnaire survey. *J Clin Nurs*, 19(17-18), 2434–45.
- McCarter-Spaulding D., Gore, R. (2009). Breastfeeding Self-Efficacy in Women of African Descent. *JOGNN*, 38(2), 230–43.
- Otsuka, K., Taguri, M. (2014). Effectiveness of a Breastfeeding Self-efficacy Intervention : Do Hospital Practices Make a Difference ? 296–306.
- Pilliteri, A. (2003). *Maternal and Child Health Nursing: Care of The Childbearing & Childrearing Family*. 4th ed. Philadelphia: Lippincott Williams & Wilkins.
- Pollard, D., Guill, M., Hanover, N., Medical, R. (2009). The Relationship between Baseline Self-Efficacy and Breastfeeding Duration. *South Online J Nurs Res*, 9(4).
- Riordan, J., Wambach, K. (2010). *Breastfeeding and Human Lactation*. 4th ed. Canada: Jones and Barlett LLC. Rodrigues, AP., Padoin, SM de M., Paula CC de Í., Souza E de O., 1. PC de A 1 LBX. (2015). Influence of sociodemographic and behavioral conditions on self-efficacy in breastfeeding: a cross-sectional study. *Online Brazilian J Nurs*, 14(3).
- Sunanda, B., Nayak, S. A. (2017). Descriptive Study to Identify the Breastfeeding Problems among Postnatal Mothers in Justice K.S. Hegde Hospital, Mangalore. *Int J Nurs Educ*, 9(3).
- Tavares, M., Aires, J., Dodt, R., Joventino, E., Oriá MOB X. (2010). Application of Breastfeeding Self-Efficacy Scale-Short Form to post-partum women in rooming-in care: a descriptive study. *Online Brazilian J Nurs*, 9(1).
- Tokat, M., Okumuş, H., Dennis, C. (2010). Translation and psychometric assessment of the Breastfeeding Self-Efficacy Scale – Short Form among pregnant and postpartum women in Turkey. *Midwifery*, 26, 10-18.
- Yang, X., Assistant, RN., Ip, W., Associate RTN., Chi W, Chan, S. (2016). Predictors of breast feeding self-ef fi cacy in the immediate postpartum period : A cross-sectional study. *Midwifery* [Internet]. Elsevier, 41:1–8. Available from: <http://dx.doi.org/10.1016/j.midw.2016.07.011>
- Zubaran, C., Foresti, K., Schumacher, M., Thorell, M., Amoretti, A., Müller, L. (2010). The Portuguese Version of the Breastfeeding Self-Efficacy Scale-Short Form. *J Hum Lact*, 26(3), 297–303.