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Predictor Breast Feeding Self Efficacy in First Week Post-Partum

Anggorowati A*, Naviati E, Sudarmiati S, Asmara FY and Susilowati D

Nursing Department Faculty of Medicine, Diponegoro University, Indonesia

***Corresponding author:** Anggorowati Anggorowati, Department of Nursing, Diponegoro University, Indonesia, Tel: +6281805889295; Email: anggorowati@fk.undip.ac.id

Research Article

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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 predicted 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 [1].

The postpartum 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 defences [2].

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 (Tables 1 & 2).

Results

Variable	Mean (min-max)	F (%)	P
Age	28,18 (17-43)		0,050
Education			
Elementary school		2 (4,5%)	0,091
Junior 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		25 (56,8%)	
Yes		19 (43,2%)	
No			0,002
Gravida	2,11 (1-4)		0,013
Birth weight	3047(1800-4100)		0,211

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

Characteristics of postpartum mostly high school educated, mother not working, at the time of early breastfeeding initiation and weight of normal baby. Age, early breastfeeding initiation, gravida are associated with

the efficacy of breastfeeding. While education, occupation, delivery and weight are not related to the efficacy of breastfeeding.

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

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

The result of linear regression analysis on Table 3.

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig
	B	Std Error	Beta		
1. (Constant)	23.993	3.408		7.041	0
Age	0.036	0.151	0.049	0.236	0.815
EAB	4.708	1.314	0.466	3.583	0.001
Gravida	1.348	1.114	0.252	1.21	0.233
2.(Constant)	24.542	2.457		9.991	0
EAB	4.721	1.298	0.467	3.638	0.001
Gravida	1.553	0.688	0.29	2.258	0.029

Table 3: Predictor Breast Feeding Self Efficacy Linear regression analysis.

The result of regression analysis of fit model that is model 2, the variable that have influence to breast feeding self-efficacy that is early breastfeeding initiation and gravida, regression equation that is:

Breastfeeding Self Efficacy = 24.54 + 4.72 * IMD + 1.55 * gravida

Value R² = 0.331, this equation shows the obtained regression model can explain 33.1% efficacy of breastfeeding. The early breastfeeding initiation 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 [3].

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 [4]. The more frequency 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 [5].

The expectation of continuous use until exclusive breastfeeding 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 [6]. The duration of intervention in this study that was only 3 days may result in insignificant results in treated and untreated groups.

The early breastfeeding initiation 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 [7]. Early breastfeeding initiation provides an opportunity for the baby to seek his own mother's nipple for one 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 [8]. Another study showed that breastfeeding initiation became a self-efficacy predictor such as Yang done [9]. 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 [10]. It also deals with family income. Study Tavares show that age related to self-efficacy [11]. The increasing age of self-efficacy is higher [12]. The findings also showed no significant association between per capita income and breastfeeding self-efficacy [12]. The same result was found in studies carried out in England and Brazil, which did not identify such statistical difference either [11,13,14]. However, in Turkey there was a statistically significant difference between these variables (p=0.001),

suggesting that low-income mothers are vulnerable to poor outcomes in terms of breastfeeding due to decreased self-efficacy [15].

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.

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GENERAL COMMENTS

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