Factors Associated with Exclusive Breastfeeding at the Bulili Health Center, South Bureabuli Village, Palu City

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ABSTRACT

Exclusive breastfeeding is the best nutrient for babies. The impacts of not receiving exclusive breastfeeding are infection, high risk of infectious diseases such as diarrhea and pneumonia, low immune system, and decreased brain development. Breastfeeding reduces baby and toddler morbidity and mortality. Human milk glycans, which contain oligosaccharides in both their free and conjugated forms, are demonstrated in studies to be a component of a natural immune process that explains how human milk protects breastfed children from diarrheal illness. This study aims to analyze factors associated with exclusive breastfeeding in the work area of Bulili Public Health Center South Birobuli Subdistrict Palu. This quantitative research was conducted through a cross-sectional approach. This study involved 90 mothers with babies aged 7-12 months, which was carried out from March 2023. The sample was selected using simple random sampling based on inclusion criteria. Direct interviews were used to collect primary data, and secondary data were obtained from Indonesia's health profile, data from the Palu City Health Office 2021, and data on exclusive breastfeeding. The data were processed using the chi-square statistical test with a significance degree of α = 0.05. The results of the study were knowledge (p=0.018), attitude (p=0.001), interest in formula milk promotion (p=0.018), and family support (p=0.002). In Conclusion, there is a significant association between knowledge, attitude, interest in formula milk promotion, and family support with exclusive breastfeeding practice. It is suggested for mothers to increase knowledge, attitude, and family support by gaining information and using social media appropriately.

Keywords: Exclusive Breastfeeding, Knowledge, Behaviour, Interest on Formula Milk Promotion, Family Support

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INTRODUCTION

According to ¹, breast milk is the greatest meal for newborns 0 to 6 months old. The protective elements and nutrients in breast milk guarantee a healthy nutritional status and
lower the child's morbidity and mortality rates 2. According to several epidemiological research, breastfeeding shields young children and newborns from infectious disorders such as acute respiratory infections and diarrhea 34. Despite being vital to a baby's development, exclusive breastfeeding is still not widely practiced. Due to a number of variables that differ by region, exclusive breastfeeding is prone to fluctuation 5.

Mothers are impacted by the complicated event of pregnancy and delivery. Physical and psychological difficulties can result from a variety of changes. Postpartum blues, a type of depression brought on by these changes, can develop after having delivery. Half of new moms have postpartum blues, a brief increase in emotional reactivity, within the first week following giving birth 67.

The greatest diet for infants, especially those under six months old, is breast milk. The most complete nourishment for a baby's growth and development is breast milk 8. Low breastfeeding rates in Indonesia pose a risk to the growth and development of young children. Among other reasons, many moms feel that breastfeeding is unsuccessful because their milk is insufficient and does not release 9. Starting breastfeeding at a young age benefits both the mother and the child. Breastfeeding has several advantages for women, including fostering love and attachment between them and their children. A baby's subsequent development may be impacted by emotional and mental illnesses brought on by the mother and baby's lack of bonding. Working women who feed formula or other foods besides breast milk to their infants before they are six months old are another element that permits a lack of bond between mother and kid 10. According to data from the World Health Organization (WHO) for 2016, 38% of women worldwide exclusively breastfeed their infants. In Indonesia, there is an even distribution of exclusive breastfeeding, yet the success rate is still not great. According to the data, between 15.3% and 74.2% of infants under 6 months are exclusively breastfed. However, the proportion of data obtained by the 24-hour recall approach was consistently greater than the population's actual data 11.

Observational studies conducted in the 1960s and 1970s have shown that breastfeeding reduces baby and toddler morbidity and mortality 12,13,14,15. Human milk glycans, which contain oligosaccharides in both their free and conjugated forms, are demonstrated in studies to be a component of a natural immune process that explains how human milk protects breastfed children from diarrheal illness 16. Additionally, nursing helps to ensure proper nutrition and subsequently non-specific immunity by reducing exposure to contaminated foods and fluids. Despite data showing that exclusive breastfeeding has beneficial and affordable health effects on a child's survival 17.

The objectives of this study is to analyze factors associated with exclusive breastfeeding in the work area of Bulili Public Health Center South Birobuli Subdistrict Palu.

**METHOD**

This quantitative research was conducted through a cross-sectional approach. This study involved 90 mothers with babies aged 7-12 months, which was carried out from March 2023. The sample was selected using simple random sampling based on inclusion criteria. Direct interviews were used to collect primary data, and secondary data were obtained from Indonesia's health profile, data from the Palu City Health Office 2021, and data on exclusive breastfeeding. The data were processed using the chi-square statistical test with a significance degree of $\alpha = 0.05$. No need Ethical Clearence in this study.

**RESULTS**

Based on table 1 there is a relationship between knowledge and exclusive breastfeeding with $p = 0.018$ in the working area of the Bulili Health Center, South Birobuli Village. It can be seen that 44 people who have poor knowledge, there are 36 people (48.6%) do not give exclusive breastfeeding and 8 people (10.8%) give exclusive breastfeeding, while out of 30 people with good knowledge there are 16 people (21.6%) do not give exclusive breastfeeding and 14 people (18.9%) gave exclusive breastfeeding.
Based on the findings between attitudes and exclusive breastfeeding, a significant relationship was found with a value of $p = 0.001$ in the working area of the Bulili Health Center, South Birobuli Village. Of the 59 people with a bad attitude, 47 people (63.5%) did not give exclusive breastfeeding and 12 people (16.2%) gave exclusive breastfeeding, and out of 15 people with a good attitude, 5 people (6.8%) did not give exclusive breastfeeding and 10 people (13.5%) gave exclusive breastfeeding.

Based on the findings, there is a significant relationship between interest in promoting formula milk and exclusive breastfeeding with a value of $p = 0.018$ in the working area of the Bulili Health Center, Birobuli Selatan Village. Of the 27 people with an interest in promoting formula milk who were not interested, 14 people (18.9%) did not give exclusive breastfeeding and 13 people (17.6%) gave exclusive breastfeeding, while of the 47 people with an interest in promoting formula milk who were interested there were 38 people (51.4%) did not give exclusive breastfeeding and 9 people (12.2%) gave exclusive breastfeeding.

Based on the results of the analysis, there is a significant relationship between family support and exclusive breastfeeding with a value of $p = 0.002$ in the working area of the Bulili Health Center, Birobuli Selatan Village. 42 people with unsupportive family support, 16 people (21.6%) did not give exclusive breastfeeding and 16 people (21.6%) gave exclusive breastfeeding.

Knowledge is the result of experience lived by someone after feeling something. Knowledge can influence how a person perceives information. As a result, people who are knowledgeable enough will more easily receive information than people who are less knowledgeable. According to 18,19, the theory of planned behavior (TPB) is a useful theoretical framework for forecasting behavior change and has also been used to forecast nursing behavior. The main factors influencing behavior, according to the TPB, were attitude (knowledge), subjective norm, and practice control 19. A growing number of studies have assessed the relationships between breastfeeding behavior and knowledge, attitude, subjective norm, and practice control 18,20. Due to the disparity in populations, the conclusions are contradictory, and it is still unclear which component is more crucial than others.

One can get knowledge from various sources. Often, interactions with other people, or health care providers broaden their acquaintance. Low maternal knowledge affects exclusive breastfeeding, mothers can provide additional food with formula milk, filtered water or give bananas and honey before the age of 6 months 21.

Based on the findings, there is a significant relationship between knowledge and exclusive breastfeeding. Mothers may not really know about exclusive breastfeeding, so

<table>
<thead>
<tr>
<th>Variable</th>
<th>Exclusive Breastfeeding</th>
<th>Not Exclusive Breastfeeding</th>
<th>Total</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good</td>
<td>14 (18.9%)</td>
<td>16 (21.6%)</td>
<td>30</td>
<td>40.5</td>
</tr>
<tr>
<td>Not Good</td>
<td>8 (10.8%)</td>
<td>36 (48.6%)</td>
<td>44</td>
<td>59.5</td>
</tr>
<tr>
<td>Behaviour</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good</td>
<td>10 (13.5%)</td>
<td>5 (6.8%)</td>
<td>15</td>
<td>20.3</td>
</tr>
<tr>
<td>Not Good</td>
<td>12 (16.2%)</td>
<td>47 (63.5%)</td>
<td>59</td>
<td>79.7</td>
</tr>
<tr>
<td>Formula Milk Promotion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not Interested</td>
<td>13 (17.6%)</td>
<td>14 (18.9%)</td>
<td>27</td>
<td>36.5</td>
</tr>
<tr>
<td>Interested</td>
<td>9 (12.2%)</td>
<td>38 (51.4%)</td>
<td>47</td>
<td>63.5</td>
</tr>
<tr>
<td>Family support</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supported</td>
<td>16 (21.6%)</td>
<td>16 (21.6%)</td>
<td>32</td>
<td>43.4</td>
</tr>
<tr>
<td>Not Supported</td>
<td>6 (8.1%)</td>
<td>36 (48.6%)</td>
<td>42</td>
<td>56.8</td>
</tr>
</tbody>
</table>
they may not breastfeed properly. The better the mother's knowledge about this problem, the more effective coverage of exclusive breastfeeding will be, mothers with positive knowledge will not give exclusive breastfeeding to their babies, effectively influenced by internal factors, and this is also supported by a lack of education about the benefits and content of exclusive breastfeeding.

Previous research that has been done with the results of statistical tests using the chi-square test obtained $p = 0.00$, $p$ value $<\alpha$ value $= 0.05$ indicating that there is a correlation between mother's knowledge of exclusive breastfeeding at Cendrawasih Makassar Health Center 2021. Research is not in line with that mother's knowledge is not related to exclusive breastfeeding. In this study, the percentage of mothers who had good knowledge of giving exclusive breastfeeding to their babies (73.3) was higher than mothers who had less knowledge (26.7%).

Attitude is a person's readiness to react to an object in a certain way, which involves their thoughts and feelings. Reactions can be either positive or negative behavior. If breastfeeding mothers have a positive perspective about exclusive breastfeeding, they will make the decision to provide exclusive breastfeeding and will continue to provide it. Attitudes are not just recording previous events, but deciding for or against something. Based on the findings, there is a significant relationship between attitudes and exclusive breastfeeding. The mother's positive attitude towards exclusive breastfeeding determines a person's willingness to provide exclusive breastfeeding for 6 months. Different from shows that the mother's attitude is not related to exclusive breastfeeding ($0.127$). In this study, it was seen that the percentage gave exclusive breastfeeding (80%) compared to mothers who had less attitude (20%).

Mothers are advised to use formula milk, it is possible that mothers do not fully understand exclusive breastfeeding, the nutritional content contained in breast milk is better than formula milk, so mothers are easily influenced by formula milk. Promotion of formula milk encourages people to continue formula feeding. Formula milk for housewives comes in attractive shapes and packaging and is offered in various ways, one of which is through television promotions. Continuous promotion of formula milk makes mothers believe that formula milk is better than breast milk, so they prefer to give formula milk to their babies. Based on the findings using chi-square, a significant relationship was found between interest in formula milk promotion and exclusive breastfeeding. The more exposure to formula milk advertisements, the more likely they are not to exclusively breastfeed their babies.

The results of this study are in line with research based on statistical tests using the continuity correction test obtained a value of $p$-value $= 0.00$ ($p < of the value \alpha = 0.05$). This means that $H_0$ is accepted, which means that there is a relationship between the promotion of formula milk and the failure of exclusive breastfeeding in infants aged 0-6 months at the UPTD Puskesmas Bojo Baru, Barru Regency in 2022.

External factors that greatly influence exclusive breastfeeding is family support. The existence of family support has an impact in the form of increasing self-confidence in breastfeeding mothers. Family support can be in the form of information, appreciation, instrumental and emotional support. Information about breastfeeding is not collected completely and continuously by the family, so the family's role is not big in continuing to provide exclusive breastfeeding.

Family support can make an important contribution to exclusive breastfeeding. Family support, both informational support, emotional support, instrumental support and assessment support, is very important for exclusive breastfeeding mothers. Family support for exclusive breastfeeding plays an important role in achieving the goal of exclusive breastfeeding, because the family will also determine how soft the response to breastfeeding is, which is greatly influenced by the emotional state or emotions of the mother. Therefore, it is necessary to increase awareness and support for breastfeeding mothers to ensure exclusive breastfeeding by involving the family.

Based on the findings using Chi-Square it is known that there is a relationship between family support and exclusive breastfeeding. Providing emotional motivation and other practical support from husbands or family can have a positive influence on mothers who practice exclusive breastfeeding, because the family is one of the factors that can influence a
mother’s decision to breastfeed.

Research conducted by 28 shows that there is a relationship between family support and exclusive breastfeeding with a p value = 0.003 <0.05. Positive family support cannot be separated from positive family attitudes as well. Not like research 29 showed that it was not related to exclusive breastfeeding (p=0.861).

More than half of the respondents stated that they had received support from their families to provide exclusive breastfeeding for their babies, namely 52.6%.

CONCLUSION

It can be concluded that there is a significant relationship between knowledge, attitudes, interest in promoting formula milk and family support with exclusive breastfeeding in the working area of the Bulili Health Center, Birobuli Selatan Village, Palu City. between attitudes and exclusive breastfeeding, a significant relationship was found with a value of p = 0.001 in the working area of the Bulili Health Center, South Birobuli Village. there is a significant relationship between interest in promoting formula milk and exclusive breastfeeding with a value of p = 0.018 in the working area of the Bulili Health Center, Birobuli Selatan Village. It is hoped that mothers will increase their knowledge, attitudes and family support by digging up information and making good use of social media.

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