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# Breastfeeding practices prevention of nutritional stunting

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# Breast Feeding Practice Prevention for Nutritional Stunting of Children In Buginese Ethnicity

Agustian Ipa<sup>1,4</sup>, Rudy Hartono<sup>1,4</sup>, Sirajuddin<sup>1,2,4</sup>, Aswita Amir<sup>1,4</sup>, Sharifah Intan Zainun Sharif Ishak<sup>3</sup>

<sup>1</sup>Associate Professor in Nutrition and Dietetic Department of Health Polytechnic of Makassar, Indonesia. <sup>2</sup>Student Doctor at Public Health Hasanuddin University, Indonesia. <sup>3</sup>Lecturer in Nutrition Department of Management Sciences University, Malaysia. <sup>4</sup>Center of Excellence Science and Technology in Urban Health of Health Polytechnic of Makassar, Indonesia

## Abstract

**Background.** The practice of breastfeeding is very important to determine the quality of nutrient intake in children under two years. In ethnic Bugis. The purpose of this study was to determine the effect of breastfeeding on stunting prevention in ethnic Bugis.

There is a cross-sectional study in this study. The sample size in this research is 300 mothers and children. The enumerators in this study were applied to undergraduate students of nutrition & dietetic programs in the Makassar Department of Nutrition Health Polytechnic, Indonesia. Research ethics was obtained at the Makassar Health Polytechnic Ethics Commission. Stunting risk factor data analysis with logistic regression test.

The results showed that 32% of children were breastfed, with a frequency of 5-8 times / 24 hours breastfeeding. The reason for not breastfeeding a child is over 2 years old, the child refuses to breastfeed (10%), has 17.3% formula milk. Statistical analysis showed that breastfeeding (frequency of breastfeeding),  $p = 0.013$ , or 1.99 (1,148-3,173) was significant as stunting prevention. The conclusion is breastfeeding habits in ethnic Bugis can prevent stunting.

**Key words:** Breast Feeding, Nutritional, Stunting, Bugis.

## Introduction

Two variables that are always related to improving the nutritional status of children are breastfeeding and supplementary feeding of breast milk. Stunting is a condition of failure to thrive characterized by short, recurrent infections and low psychosocial stimulation. The 2017 Indonesia stunting prevalence is 36.4% and the determinant factor stunting is multi-factors<sup>1,2,3,4</sup>. Stunting in Makassar City as a red zone area (prevalence > 40%) at the same time Makassar City is the largest Metropolitan city in Eastern Indonesia and the development center of eastern Indonesia<sup>5</sup>.

A systematic review determinant factor stunting in Indonesia is caused by various factors factor Households and Families, insufficient food addition to breastfeeding, infection and and factors of social<sup>6,7,8</sup>.

The practice of breastfeeding is also a variable that is studied in this research because. The population of Makassar City is 50% Buginese. This means that the prevalence of stunting in Makassar City is also related to Buginese. And having unqi character in the economic field and the ability to survive anywhere. The study required to find breastfeeding ethnic Buginese and its effect on the prevention of stunting.

## Method

The subjects of this study were obtained from Bugis Ethnic who live in Makassar City. The study sites were three Puskesmas working areas in the North of Makassar City. Tamalanrea Health Center, Health Center, Paccerrakkang, and Sudiang Raya Health Center. The reason for choosing the northern area of the city is because the Bugis ethnic population inhabits the north of the city more than any other location, due to

geographical proximity to the Bone, Soppeng, and Wajo (Bosowa) Regencies as the Bugis ethnic base in South Sulawesi.

The population is all mothers who have children aged 6-59 months in Makassar City. Criteria for inclusion of Buginese ethnic samples in Makassar City

(1) The mother is from the ethnic Bugis and the husband is also from the ethnic Bugis

(2) Having children aged 6-59 Months in September 2019

(3) Have lived for at least the past 6 months in Makassar City

(4) Willing to participate in this research

The sample size in this study is 300 people, based on the estimated prevalence of stunting in Makassar City as a Bugis ethnic center that is 35.7%, using 80% power test with 95% confidence, design effects 1 and 5 with the addition of 10% additional data estimated not to participated in this research because they refused or were not present at the time of screening

Data collection in this study uses a list of questions that have been tested with good reliability. The questionnaire was tested using structured questions using official data on children aged 0- 59 months (data mom and household data) Data collected included age, gender, weight and height/length; mother level, education level and participation in household decisions; breastfeeding practices, supplementation, and washing hands; children's access to health and nutrition services (growth monitoring, micronutrient supplementation, and immunization); maternal access to health services (antenatal care, assistance during labor and place of delivery); household water, sanitation and hygiene; and social economy

My child's weight is measured using electronic SECA scale with an accuracy of 0.1 kg and a length of the child (for children aged 0-23 months) or height (for children aged 24- 59 months) was measured using high board / long local made with an accuracy of 0, 1 cm.

SECA scales are calibrated every morning, before data collection, using a standard weight of 5 kg. Duplicate anthropometric measurements were carried out for 10% of the sample; the coefficient of variation in subjects from duplicate measurements in children and women is less than 5%. All enumerators receive training at least two days before data collection, and those responsible for taking anthropometric measurements receive one additional training day. Supervisors are tasked with supervising the work of enumerators and facilitating good relations with community members. Stunting is defined as Z-score for height  $<<2$ . In the 2006 WHO Anthropometry standard.

## Results and Discussion

### Demographic Characteristics

Based on the results of this research it is known that the main occupation of mothers is as housewives as many as 243 people (83.3%), and private employees as many as 26 people (8.7%). Father's occupation is as a private employee and laborer, 153 people (51.1%) and 85 people (28.6%).

### Distribution of Stunting Children on Ethnic Bugis

**Table 2 .Distribution of Buginese Ethnic Stunting Children**

| Status   | n   | %     |
|----------|-----|-------|
| Stunting | 68  | 22.7  |
| Normal   | 232 | 77.3  |
| Total    | 300 | 100.0 |

Based on the results of this study it is known that the percentage of stunted children in the Bugis ethnic group in Makassar City is 22.7%.

### Breastfeeding Factor

Factors for breastfeeding are breastfeeding status, frequency of breastfeeding and current reasons for not breastfeeding (Table 2 )



**Table 2 . Factors of Buginese Ethnic Breastfeeding**

| Breastfeeding Factor                      | Category                | n   | %    |
|---|-------------------------|-----|------|
| Current breastfeeding status<br>(n = 300) | a. Yes                  | 97  | 32.3 |
|   | b. No                   | 203 | 67.7 |
| Frequency of breastfeeding (n = 300)      | a. 1-4 times            | 16  | 5.3  |
|   | b. 5-8 times            | 36  | 12.0 |
|   | c. 9-12 times           | 27  | 9.0  |
|   | d. > 12 times           | 18  | 6.0  |
| Reasons for Not Breastfeeding (n = 300)   | a. > 2 years old        | 114 | 38.0 |
|   | b. refuse breastfeeding | 31  | 10.3 |
|   | c. working mother       | 6   | 2.0  |
|   | d. prefer formula milk  | 52  | 17.3 |

Based on the results of this research it is known that the breastfed children today are 97 people (67.7%). The frequency of breastfeeding in general is 5-8 times in 24 hours of 36 people (12%). The reason for those who stopped breastfeeding during the study was because children were > 24 months or 2 years old.

Determinant analysis of factors against all variables that are strongly suspected is a stunting risk factor. Variable groups consisted of household factors, child factors and MP-ASI, breastfeeding factors, hygiene and sanitation, infectious diseases, child care, feeding style, and caring practices.

#### Breastfeeding and stunting risk factor

**Table 3 . Analysis of Determinants of Buginese Ethnic Stunting Factors**

| Determinant Factor       | Code Variable * | P. Value | OR ** | 95.0% CI for EXP (B) |       |
|--------------------------|-----------------|----------|-------|----------------------|-------|
|                          |                 |          |       | Lower                | Upper |
| Factors of breastfeeding | FM25            | .013     | 1909  | 1,148                | 3,173 |

\*) variable code, you can see the attached question list.

\*\*) based on logistic regression analysis, with stunting as the dependent variable.

Based on the results of risk factor analysis various variables that influence stunting are breastfeeding factors ( frequency of breastfeeding),  $p = 0.013$ , OR 1.99 (1.148-3.173). Factors breastfeeding by reference are 1-4 times, above 4 times a day be a protective factor against stunting.

#### Discussion

The prevalence of ethnic Buginese stunting is 22.7%, where this percentage is still above the threshold set by WHO as a threshold for health problems with a prevalence of <20%<sup>9</sup> Based on these parameters, it can be proven that the ethnic Buginese made a significant contribution to the percentage of stunting in South Sulawesi in 2018. The province of South Sulawesi ranks the fourth highest percentage of stunting in Indonesia. Various factors were analyzed in this study in accordance with the conceptual framework published by Unicef in 2006<sup>10</sup>.

In this research, it is known that breastfeeding habit is a positive factor that is able to provide prevention to children not to stunting. The most critical period is 0-24 months. In this period if the child is breastfed completely and supported by quality additional food after the age of 6 months to 24 months, then the child's nutritional status is good. If the child is not perfectly breastfed then the risk, stunting becomes greater<sup>11,12,13,14,15,16</sup>.

*Buginese* ethnic habit is the same as other ethnic groups, where the marketing of formula milk which is quite large in the community causes the practice of breastfeeding to decrease. Indonesia's experience in regulating the marketing of formula milk is not good. There is no strict supervision of formula milk sellers at small kiosks throughout the region not only in cities but also in villages. Buginese are ethnic peddlers and busy working outside the home. This causes the position of the child can be left out while working outside the home. Parenting practices entrusted to neighbors are not common except for close relatives<sup>17,18</sup>.

The breastfeeding factor theoretically determines the quality of macro and micro nutrient intake, especially in the period of 1000 HPK<sup>19</sup>. If the support of maximum breastfeeding, the child's height will be normal and vice versa. This is due to many biological and psychological beneficial factors obtained by breastfed children compared to children who are not breastfed. This study examines the variables of lack of frequency breastfeeding is risk factors for stunting. The reference used is breastfeeding > 12 times in 24 hours and frequencies lower than that are at risk for stunting. This proves that in the period of breastfeeding which is the age of 0-24 months, it is important to breastfeed properly with the right frequency<sup>20</sup>.

### Conclusion

The practice of breastfeeding children aged 0-24 months in ethnic *Buginese* is able to prevent stunting. It is recommended that social marketing of breastfeeding practices be carried out at all levels, so as to strengthen the community that breast milk is the best food for children aged <6 months and continued until the child is 24 months old.

### Conflict-of-Interest Statement

Between researchers and investigated there was **no** conflict of interest in the conduct of this study.

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**Ethical Clearance:** The Makassar Health Polytechnic Health Research Ethics Committee has issued research ethics under number 1123 / KEPK-PTKMKS / X / 2019.

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