Conference Paper

Description of Eat Pattern and Relationship Between Nutrition Status With Basic Consumption levels in Children of School (Study Case Settlement Gundih, District Bubutan, Surabaya City)

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Abstract

Background, since the 1997 economic crisis the number of poor people in Indonesia has increased. One result of the crisis was the increasing number of street children. Street children are one of the conditions of children in difficult circumstances, their lives are very worrying, especially health and the future. The goal is to know the nutritional status of street children as a scientific basis for further intervention programs. Research Methods, discrete-analytic observational research. Using quota sampling as many as 30 street children in the Gundih settlement of Bubutan District, Surabaya City. Nutritional status was assessed by using anthropometric parameters of height according to age and sex and carried out a 2x24 hour recall to determine diet and consumption levels. Conclusion, (1) 70% of street children have poor nutritional status and only 6.7% have good nutritional status. (2) The most common diet patterns for street children are rice, side dishes, and vegetables. (3) The level of consumption achieved is still below 100% of the AKG and the majority are in the less and moderate category. (4) There is no significant relationship between nutritional status and consumption level (p > 0.05). Suggestions, intervention programs on street children need to be done to prevent further serious nutritional problems.

Keywords: homeless kid, economic crisis, nutritional status

1. Introduction

Since the economic crisis in 1997, the number of poor people in Indonesia has increased. The economic crisis has caused the real value of the national development budget to decline by at least 60% so that tens of millions of families in Indonesia are forced to cross the poverty line. According to the World Bank, 3/5 or 60 percent of Indonesia's population is currently below the poverty line.

This situation causes health services and education to deteriorate, where children are the most vulnerable populations to be attacked. Reducing health services and
education has been accelerated at a time when Indonesia produces healthy children and has a good education to meet the challenges of globalization and the need to build a nation after the crisis. This crisis has removed most of the benefits of a lost generation, children lost education, good nutrition, and health protection. According to the 2003 human development report on the United Nations development program, the severity of child malnutrition in Indonesia is increasing.

One of the social symptoms as a direct result of the economic crisis is the increasing number of street children. According to the 1991 East South Office research on Children on Jakarta's Street, from 3,420,828 children in Jakarta, 1.46% (9,868) were street children and based on data obtained from international conferences on street children in Yogyakarta in the year 1996, estimated the number of street children in Indonesia to reaching 3 million children, while enumeration of street children conducted in 1998 in 12 major cities the number of street children has reached 40 million children. It is estimated that the number of street children will continue to increase in line with the deteriorating prolonged Indonesian economy. The severity of life for street children that must be faced with the problem of education and health has not become a primary problem, and it can be ascertained that the lives of these abandoned children are very worrying especially their health and future, so the phenomenon of increasing the number of children is a separate problem in pediatric community.

From data from the East Java social service, in 2000 the number of street children in the city of Surabaya had the highest number. We can meet the activities of street children in the city of Surabaya in the city center, at the intersection of red lights or in the traditional market area. Gundih Subdistrict, Bubutan Subdistrict, Surabaya, is a former place of relocation for homeless people including street children and until now, from the survey results, street workers have formed their communities in one settlement. Seeing the description above, it is very important for empirical data to influence the description of eating patterns and the relationship between nutritional status and consumption level in street children who are in elementary school in the settlement of Gundih, Bubutan Regency, Surabaya, because it is part of Indonesia's assets.

2. Method

The research method is discrete-analytic observational research. Using quota sampling as many as 30 street children in the Gundih settlement of Bubutan District, Surabaya City. Nutritional status was assessed by using anthropometric parameters of height according to age and sex and carried out a 2x24 hour recall to determine dietary
patterns and consumption levels. From the research conducted, 30 respondents were obtained.

3. Result

The distribution of respondents according to age and sex found that the age group of 10-12 years had the highest number of 17 (60%), whereas according to sex the number of male respondents was found to be higher, namely 16 (57%).

Distribution of respondents according to occupation and income obtained by the type of work with the highest number was singers, namely 10 (33.3%), while the scavengers were the least number, namely 1 (3.3%). According to income, most of them know, 21 (70%) respondents have income ≤ Rp. 5,000, the amount of income can come from the work of beggars, buskers, hawkers and service fees, while the largest amount of income (> Rp. 20,000) is only 2 (6.7%) of respondents who came from the work of beggars and scavengers.

Distribution of respondents according to the level of knowledge about nutrition found no response to the level of knowledge of good nutrition, 10 (33.3%) respondents had

<table>
<thead>
<tr>
<th>Gender</th>
<th>P</th>
<th>L</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-9 years</td>
<td>2</td>
<td>7</td>
<td>9</td>
<td>30</td>
</tr>
<tr>
<td>10-12 years</td>
<td>9</td>
<td>9</td>
<td>18</td>
<td>60</td>
</tr>
<tr>
<td>13-15 years</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Amount</td>
<td>13</td>
<td>17</td>
<td>30</td>
<td>100</td>
</tr>
<tr>
<td>%</td>
<td>43</td>
<td>57</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Work Age (years)</th>
<th>Beggar</th>
<th>Buskers</th>
<th>Scavenger</th>
<th>Asongan</th>
<th>Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-9</td>
<td>2 (6.7)</td>
<td>3(10)</td>
<td>1(3.3)</td>
<td>3(10)</td>
<td>2(6.7)</td>
</tr>
<tr>
<td>10-12</td>
<td>3(10)</td>
<td>6(20)</td>
<td>-</td>
<td>2(6.7)</td>
<td>6(20)</td>
</tr>
<tr>
<td>13-15</td>
<td>-</td>
<td>1(3.3)</td>
<td>-</td>
<td>-</td>
<td>1(3.3)</td>
</tr>
<tr>
<td>Amount</td>
<td>5(16.7)</td>
<td>10(33.3)</td>
<td>1(3.3)</td>
<td>5(16.7)</td>
<td>9(30)</td>
</tr>
</tbody>
</table>
**Table 3:** Distribution of Respondents by Job and Income.

<table>
<thead>
<tr>
<th>Work Income (Rp)</th>
<th>Beggar</th>
<th>Buskers</th>
<th>Scavenger</th>
<th>Asongan</th>
<th>Services</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=5000</td>
<td>3</td>
<td>6</td>
<td>-</td>
<td>4</td>
<td>8</td>
<td>21</td>
<td>70</td>
</tr>
<tr>
<td>6000-10000</td>
<td>1</td>
<td>2</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>4</td>
<td>13.3</td>
</tr>
<tr>
<td>11000-15000</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>6.7</td>
</tr>
<tr>
<td>16000-20000</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>3.3</td>
</tr>
<tr>
<td>&gt;20000</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>6.7</td>
</tr>
<tr>
<td><strong>Amount</strong></td>
<td>5</td>
<td>10</td>
<td>1</td>
<td>5</td>
<td>9</td>
<td>30</td>
<td>100</td>
</tr>
<tr>
<td><strong>%</strong></td>
<td>16.7</td>
<td>33.3</td>
<td>3.3</td>
<td>16.7</td>
<td>30</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

Description: services: polishers, cleaning public places
<=: less than the same as
>: greater than

**Table 4:** Distribution of Respondents According to the Level of Knowledge About Nutrition.

<table>
<thead>
<tr>
<th>Knowledge Category</th>
<th>Amount</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Enough</td>
<td>10</td>
<td>33.3</td>
</tr>
<tr>
<td>Less</td>
<td>20</td>
<td>66.6</td>
</tr>
<tr>
<td><strong>Amount</strong></td>
<td>30</td>
<td>100</td>
</tr>
</tbody>
</table>

a level of knowledge of adequate nutrition and 20 (66.7%) respondents had a level of knowledge of malnutrition.

**4. Discussion**

From the research that has been done, there were 30 respondents from street children

**4.1. Characteristics of Respondents**

**4.1.1. Age and Gender**

Based on the results of research in Table 1, it is known that the age group of 10-12 years has the highest number of 18 (60%) compared to the two-age groups below and above, namely the age group 7-9 years and 13-15. The amount of age groups 10-12 years compared to the age group below can be concluded that the higher the age of a person the greater the chance to work because physically they are stronger and mentally feel more courageous to go on the streets, considering that they have to live
in the middle big danger. From interviews conducted with several respondents who lived together with the people (80%), it was found that people knew that they had not given permission to join work actively and independently if they were still considered too small, but they were only passively involved in just accompanying them. Passive involvement of a child can, of course, provide its own benefits because the community will often find it hard to see the child, while another advantage is that the child will learn as early as possible with the street environment so that when they have to work they are already trained.

While the number of street children aged 10-12 years who are greater than 13-15 years old, because sampling in this study was conducted at the age of the elementary school, so the small number of those aged 13-15 years is likely to be street children who should have graduated from elementary school.

Distribution of respondents by sex in Table 1, of the total number of street children in this study, the male respondents had the largest number, namely 17 (57%). This is probably because boys are physically stronger than girls, but in terms of licensing from parents, boys are more likely to get permission to roam the streets.

4.1.2. Age and type of work

From Table 2, it is known that buskers are the most types of work for all age groups, namely 10 (33.3%), from this it can be concluded that the types of busking work can be done by all age groups. According to the results of the interview, it was known that the selection of this type of work was due to the ease of doing the work. In the age group of 7-9 years, the type of asongan work is known to also have the same high number as busking i.e 3 (10%), this is probably because the asongan is relatively not too tiring compared to other jobs such as scavengers and services but also types of jobs that are not just asking - ask. Likewise, the age group 10-15 years apart from the work of busking services is the type of work that has the highest number, namely 1 (3.3%) of respondents, this is because they physically feel more able to do the service of the service and the results that are obtained are expected to be more. From this, it can be concluded that the age of a person will greatly determine the type of work he chooses because physically they feel more able to do more to get more income.

4.2. Socio-Economic
4.2.1. Job Types and Big Income

In table 3, it is known that the most types of work are singers, namely 10 (33.3%), this is because busking is considered easier to do and does not require capital at all. With busking they only need simple musical instruments made from bottle caps and perfunctory sounds. While the majority of jobs are service workers, namely 9 (30%) such as polishing, renting umbrellas and cleaning public places. According to the results of the interview, the selection of the type of service work is caused because they feel that there is a concrete work they do rather than just begging or singing.

The smallest number of jobs is scavenger work, which is one (3.3%) because this work is considered to be relatively tiring and requires a lot of energy for children of their age (elementary school age) even though later the income can be greater.

Food consumption can be influenced by the amount of income because the amount of income owned can determine purchasing power. Based on income in table 4.1.3, it is known that most are 21 (70%) street children have income \(\leq\) Rp.5,000, this income can be obtained from the type of work of beggars, buskers, hawkers, and services. While the biggest income (> Rp. 20,000) can be found from beggar jobs (3.3%) and one scavenger (3.3%). From here it can be seen that the type of busking work can produce varying amounts of income, as well as other types of work as shown in the table, so it can be concluded that the amount of income is not determined by the type of work.

In this study, it was known that most (36.7%) street children had low income \((\leq\) Rp.5000) and most (26.7%) street children who had higher income \((>\) Rp.5,000) turned out to have the same level of calorie consumption is low. From this, it can be concluded that the greater income of the most active street children is not followed by an increase in the level of consumption of food. This situation can be caused because the level of consumption is not only caused by large income but also due to other factors such as the level of knowledge, the health of the individual and the role of the family.

5. Conclusion

From the research that has been done it can be concluded:

1. Of the 30 street children who were assessed for their nutritional status, they were obtained mostly, namely 21 (70%) street children who had poor nutritional status.

2. The most frequent diet patterns of street children are rice, side dishes, and vegetables, which is 13 (43.4%), the second most is rice, side dishes are 10 (33.3%).
3. For consumption of staple food, rice is the type consumed by 30 (100%) respondents, then the second most is noodle 21 (70%). For the consumption of side dishes, tempeh is the most consumed side dish 26 (86.7%), followed by eggs and tofu. The highest vegetable consumption was spinach 23 (76.7%), the second-largest was kangkong and cabbage white or cabbage 12 (40%) respectively. While the highest fruit consumption is banana, papaya, guava and watermelon 4 (13.3%) respectively. Milk is known to only consume 6 (20%) respondents.

4. The average percentage of RDA for all types is still far from the recommended value which is below 100% (the highest percentage of energy RDA percentage is 79.3% 50.3%, carbohydrate 84.9% 32%, fat 66, 8% 47%, and protein 65.4% 33.5% all of which were obtained in the age group 13-14 years).

5. From the results of statistical analysis, it is known that the relationship between nutritional status and the level of energy, carbohydrate, fat and protein consumption did not have a significant relationship ($p > 0.05$). This can be caused by the level of consumption of street children still far from the AKG so that the substances consumed are still allocated for energy in activities while growth is still lacking or can also be caused by diseases suffered and genetic factors.

6. The amount of income and level of knowledge may play a role in determining the level of consumption and diet of individuals, but this is, of course, inseparable from other factors such as the role of parents, appetite, pleasure factors and socio-cultural conditions.

### 6. Suggestions

1. Efforts need to be made to increase knowledge about nutrition in street children such as counseling.

2. There needs to be a nutrition intervention program for street children such as supplementary food programs (PMT).

3. The need for efforts to improve the quality of human resources in the community of street children by providing education and skills to increase independence with the hope that street children can improve their economic and health degrees.

4. The discovery of nutritional problems in street children in the Gundih area of Bubutan district, Surabaya City, should be used as a scientific basis for intervention programs to prevent further nutritional problems.

5. The need for further research with a larger sample size and wider population.
6. The need for further research on the relationship between the factors underlying the nutritional status of street children, such as illness, the environment and others.

References


