Preferences (Attitudes and Preferences of Vegetables) of School Children Reviewed from knowledge

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Submission date: 03-Jul-2020 07:01AM (UTC-0700)

Submission ID: 1353022228

File name: lampiran3 preference.pdf (438.51K)

Word count: 7684

Character count: 41505

DOI: 10.30994/sjik.v9i1.213

ISSN: 2252-3847 (print); 2614-350X (online) Vol.9 No.1. May 2020. Page 147-161

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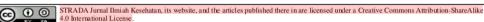
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ABSTRAK

Vegetables are one of the ingredients of food that should be part of the consumption of school children. However, in reality there are not many children who want to consume vegetables and fruits 10 he low consumption of vegetables and fruit in school children is due to multifactor. This study aims to determine the relationship of knowledge with preference (attitudes and preferences of vegetables). The design of the observational study using a cross sectional design was carried out in November 2018. The population in this study were all children found in Yayasan Eleos Sukodadi Village, Wagir Sub-District, Malang Regency, with 57 children, with total sampling. Independent variables are children's knowledge, with dependent variables being prefence (attitude and preference) of vegetables. The instrument uses 3 questionnaires with a total of 34 questions. Analysis of data to determine the relationship between preference knowledge (preferences and attitudes) of vegetables and fruit using rank spearman test and SPSS Version 17. The results of the study show that most school children have sufficient knowledge (18, 2%) and half of the respondents have good preferences (50.9%). The statistical test showed that there was no relationship between knowledge and vegetable preferences in school children.

Keywords: Attitude, Knowledge, Preference, School Children, Vegetable

Received December, 25, 2019; Revised January 24, 2020; Accepted February 15, 2020



DOI: 10.30994/sjik.v9i1.233

ISSN: 2252-3847 (print); 2614-350X (online)

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INTRODUCTION

School period is one age group that is experiencing a period of rapid growth and development. In this age group the fulfillment of nutrients both micro and macro is very important. Fulfillment of child nutrition well in terms of quality and quantity will greatly support physical growth and development of the child's organs. According to Xinhua News Agency - CEIS (2005) nutrition is very important early in life because it is in the age of early childhood development and then leads to a positive economic impact through increasing productivity in adolescence and adulthood.

Vegetables are one of the ingredients of for that should be part of the eating consumption of school children. Regular combination of vegetables and fruits in the consumption of children's food, will make the child's body healthy, have active movements, and have good immune system so that they are not easily sick. Research Canter, Roberts, & Davis (2017) of 148 elementary school children whose parents have low income, it is found that children with consumption of vegetables and fruits that are in accordance with the recommended portion will be more physically and more active than children who consume less vegetables and fruits

It is not an easy matter to invite children in school age to have a habit of consuming vegetables and fruits regularly. The phenomenon of the low consumption of vegetables and fruit in school children is still not resolved. Various studies have found more consumption of vegetables and fruits of children with a portion that is less than the recommended portion of the USDA (Epstein et al. (2001); Gross, Pollock, & Braun (2010); Guenther, Dodd, Reedy, & Krebs-smith, (2006); Horne et al., (2004); Maddison R, Turley M, Legge N, (2010); Vereecken CA, Damme WV (2005); As many as 75% of preschool children consume less fruits and vegetables than are recommended for children's health (Hong, Bales, & Wallinga, 2018).

In Indonesia, this condition is not much different. 2013 Riskesdas revealed that the average consumption of vegetables in Indonesian people was 63.3% and for fruits 62.1% than recommended. It can be stated that these two percentages are far from the recommended consumption needs. The Ministry of Health (2014) also confirmed that 93.5% at the age of more than 10 years consume fruit and vegetables below the recommended amount of consumption; the low consumption of vegetables and fruits is evenly distributed in all age groups in rural and urban areas, and the lowest in the teen age group (98.4%).

If studied further, there are many factors that affect the low consumption of vegetables and fruits in school children. One of them is socio-economic factors. Low socio-economics will reduce the family's purchasing power of vegetables and fruit. With families having low purchasing power, vegetables and fruits have little chance to be bought and become family consumption. The statement is in line with the results of research which state that children with less socioeconomic conditions are less likely to consumer fruits and vegetables compared to peers who have higher socioeconomic conditions (Rasmussen et al., 2006; Granner et al., 2004)

The low consumption of vegetables and fruit in these children, need to be followed up immediately because children are in a period of rapid growth and development and begin to develop eating habits in childhood. Wardle et al., (2003); Godrich, Davies, Darby, & Devine (2018) resealed that to overcome the lack of vegetables and fruit in children it needs to be done as early as possible, because these habits are 23 med from childhood and tend to be brought to adult life. The quality of one's food will have a large impact on the overall health of adolescents. Keep in mind that vegetables and fruits are very good

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ISSN: 2252-3847 (print); 2614-350X (online)

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ritamins and minerals that are needed by the body. The lack of vegetable intake and fruit has a negative import on health. Agree with Munoz, Krebs-Smith, Ballagl-Barbash, & Cleveland (2004);Edwards, 3 S A; Hartwell (2002) which states that foods such as vegetables and fruits support bone health and reduce the risk of coronary heart diseas and cancer. Even WHO (2012) also states that the low intake of getables and fruit is one of the ten main risk factors that cause death, including 2.8% of deaths due to low consumption of vegetables and fruit. But unfortunately, not many people want to prevent disease through the consumption of vegetables and fruits at a young age (Søndergaard & Edelenbos, 2012)

Various educational activities and health promotions about the importance of vegetables have been sought, but still have not shown satisfactory results. Continuous and continuous promotion programs are needed to get maximum results. Health education and promotion is provided with the aim of all relevant parties, including in this case also in elementary school children. Promotional activities related to healthy lifestyles in elementary school children are expected to be able to increase children's knowledge, especially the behavior of consuming vegetables and fruits, and provide better attitude changes and behavior changes than before. Regular consumption of vegetables and fruit will make the children have the intake of vegetables and fruit of children (Canter et al., 2017). RM Putri; V Silalahi; NL Ariani (2019) research shows that there is an improvement in vitamin C intake in the consumption of vegetables / fruits of children after the health education for teachers.

Vegetable and fruit consumption behavior in children is strongly influenced by children's knowledge of the importance of vegetables. The number of children who have low knowledge about vegetables. Khatima H., Jafar., N., Salam A.(2015) found less knowledgeable students. about vegetables by 49.1%. Supported Putri, RM., Maemunah (2017) who received less knowledge of vegetable types at 83.7% of children, knowledge of the benefits of vegetables that was less than 55.1%, and a number of 69.4% did not know how to consume less vegetables.; Putri, Susmini, & Hadi (2017) revealed that at Yayasan Eleos, Sukodadi Village, Wagir Sub-District, Malang Regency showed that most of the knowledge of children aged 5-12 years about the types, benefits, content and consequences of vegetable deficiencies were in the less category. Knowledge about vegetables here has a very important role, because with good vegetable knowledge it will also have a positive impact on attitudes and is expected to also impact on good and quality vegetable and fruit behavior. On the other hand, knowledge of vegetables that is lacking, causes school children not to know or even understand the benefits of consuming fruits and vegetables for the body. Lack of knowledge will reduce the interest of school children to just try vegetable or fruit flavors.

And it is suspected by researchers that this child's knowledge is related to vegetable and fruit preferences. Preference is a form of vegetable acceptance which includes the attitudes and preferences of children. Many children do not like vegetables, and even openly refuse to consume vegetables. Various behaviors that show resistance when told to consume vegetables such as shutting up and spatianeously say no to vegetables. This researcher's tement is in accordance with Fildes, Van Jaarsveld, Wardle, & Cooke (2014); Remington, Añez, Croker, Wardle, & Cooke (2012) which states that the preference of children for vegetables is very low, and tends to refuse to consume vegetables. Penelitian Leuven, Rutenfrans, Dolfing, & Leuven, (2018) study found that 10% of children

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worldwide had been diagnosed with excessive weight, with the cause being a low vegetable intake and preference for vegetables, fruit. In line with Khatima H., Jafar., N., (2015) who found 49.7% of students in SMP 1 Kesu 'North Toraja district had a preference not to like vegetables and fruit, and gave a negative attitude towards vegetables by 44.4%. This study also revealed a lack of connection between knowledge and preferences with the possible profession of vegetables and fruit; and there are children's preference for vegetables, it takes a profession of vegetables and fruit. To increase children's preference for vegetables, it takes a profession of effort from various parties. Leuven et al. (2018) revealed that gardening in schools significantly increases the knowledge of elementary school children about 10 vegetables and increases short-term / long-term preferences for some vegetables to increase.

This research is a follow-up study, where previously there were problems with lack of vegetable knowledge in the children of Yayasan Eleos Sukodadi Village, Wagir District, Malang Regency.

ME 19 ODS

The observational study with a cross sectional design was carried out in November 2018. The population in this study were all children found at Yayasan Eleos Sukodadi Village, Wagir Sub-District, Malang Regency, with 57 children, with total sampling. Independent variables are children's knowledge, with dependent variables being prefence (attitude and preference) of vegetables. Instruments using 3 questionnaires with a total of 34 questions, namely knowledge questionnaire (16 questions), favorite vegetables (8 vegetables) and attitude towards vegetables (10 questions). Data analysis to determine the relationship between preference knowledge (preferences and attitudes) of vegetables using the rank spearman test and SPSS version 17.

RESULTS

Table 1. Characteristics of Respondents in General

Variabel	Amount	%
Gender		
Man	21	36,8
Women	36	63,2
Age group		
5-11 age	23	40,4
12-16 age	32	56,1
17-25 age	2	3,6
Father's education		
Bachelor	1	1,8
High school	10	17,5
Junior High School	28	49,1
Elementary School	17	29,8
No school	1	1,8
Mother's school		
High school	9	15,8
Junior High School	31	54,4
Elementary School	14	24,6

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No school	3	5,3
Father's job		
Building	8	14
Private	32	56,1
Farmer	17	29,8
Mother's job		
RT Assistant	3	5,3
IRT	17	29,8
Farmer	11	19,3
Privat	24	42,1
Nurse	2	3,5
ownership of information source (amount)		
1	16	28,1
2	24	42,1
3	11	19,3
4	6	10,5

Table 1 shows most of the respondents were female, 36 (63.2%); 32 respondents (56.1%) were in the age group of early adolescents (12-16 years); 28 fathers of respondents (49.1%) had junior high school education; 31 respondents (54.5%) had junior high school education; 32 fathers of respondents (56.1%) worked privately; 17 respondents (29.8%) did not work (IRT); as many as 24 respondents (42,%) had ownership of 2 types of information sources, namely television and handphone (cellphone).

Table 2. Characteristics of Respondents Based on Family Vegetable Consumption Management

Variable	Amount	%
Availability of vegetables		
Selalu	29	50,9
Jarang	27	47,4
Tidak pernah	1	1,8
Assistance in eating vegetables		
Always	16	28,1
Sometimes	36	63,2
Never	5	8,8
Exemplary vegetable consumption		
Always	25	43,9
Sometimes	27	47,4
Never	5	8,8
the role of friends		
Always	13	22,8
Sometimes	36	63,2
Never	8	14
Provision of vegetables by schools		
Always	2	3,5
Sometimes	13	22,8
Never	42	73,7

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Table 2 shows that most of the 29 families of the respondents (50.9%) always provided vegetables when pickled eating at home; 36 families of respondents (63.2%) sometimes accompanied children when eating vegetables at home; as many as 27 families of respondents (47.4%) sometimes gave examples / examples of consuming vegetables when at home; 36 respondents (63.2) sometimes saw friends consuming vegetables at home (the role of friends); and as many as 42 respondents (73.7%) said they never got vegetables from the school.

Table 3. Frequency Distribution Based on Respondents' Knowledge, Attitudes and Preferences

Variable	Amount	%
Knowledge		
Well	16	28,1
Enough	36	63,2
Less	5	8,8
Attitude		
Well	38	66,7
Enough	19	33,3
Fondness		
Well	27	47,4
enough	29	50,9
Less	1	1,8
vegetable preferences		
Well	29	50,9
Enough	28	49,1

Table 3 shows that 36 respondents (63.2%) had sufficient knowledge about vegetables; 38 respondents (66.7%) had a good attitude about vegetable consumption; 29 respondents (50.9%) had a favorite level of vegetables in the sufficient category; 29 respondents (50.9%) had vegetable preferences in good categories.

Table 4. Test Statistics on Relationship of Knowledge with Vegetable Preferences

Spearman's rho	Fondness	Attitude
Knowledge	0,246	0,221
	Preference	
Knowledge	0,086	

Table 4 shows the results of statistical tests using spearman rho obtained p value 0.086. This data shows that there is no relationship between vegetable preference knowledge in school children in the Yayasan Eleos Sukodadi Village, Wagir Sub-District, Malang Regency

DISCUSSION

Respondent Knowledge

Most respondents have enough knowledge about the importance of vegetables. The results of this study indicate that respondents know enough and understand the importance of vegetables for health. Knowledge of respondents in the category is due to many factors, one of which is education. Most of the respondents were in the group of junior high school

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students. A small part is in the lower level of education, namely elementary school education. Junior high school education is the level of basic education found in formal education after being declared graduated from elementary school / equivalent. So it can be said at this level that the students' thinking will be opened to the real knowledge.Included in the importance of vegetables. At this level, students are thought to be still in the stage of knowing and starting to enter the stage of understanding the importance of vegetables. Students begin to learn to receive information scientifically through school. With the existence of formal education provided regularly, it is possible that more knowledge will be entered into the respondents. During formal education, knowledge is obtained by students from many sources. Including knowledge gained from mass media, and parents. With the increasing amount of knowledge coming from various sources, it will be easier for someone to receive information about an object (Notoatmodjo, 2010). The level of education contributes to children's knowledge.

Agree with the results of the research of Franchini, B., Poínhos, R., Klepp, K., & Almeida (2013) in Portugal pat it was conveyed that Portuguese mothers who had higher levels of education showed higher daily vegetable intake compared to them who have less than 7 years of education (p = 0.007 for 10-12 years and education more than 12 years). If it is related to this theme, mothers who consciously consume vegetables and fruits have higher degrees of education than those with less education. With mothers having the habit of consuming vegetables and fruits with the quality and quantity in accordance with the instructions, the child will be moved to follow the habits of the mother. Through the principles of exemplary from parents, it will also have an impact on the formation of vegetable consumption habits in children. The study also found a combination of vegetable and fruit consumption between classes IV and V compared to class VI-VIII, with the highest intake in higher grade classes. The results of this study concluded by researchers that there might be an increase in knowledge along with the increasing level of education. A person will not consume vegetables and fruit, before knowing that this the food is very beneficial for the health of the body. Overall the level of education, social class and area of residence did no how a significant relationship with daily intake of fruits and vegetables. However the education level shows a positive and significant relationship with a combination of daily fruit and vegetable intake among Portuguese mothers who are included in the higher education level category (education 10-12 years; p = 0.031) when compared to less than 7 years education (Franchini, B., Poínhos, R., Klepp, K., & Almeida, 2013).

Knowledge of school children that is sufficient about the importance of vegetable consumption is also influenced by experience factors. Experience is one of the valuable things that also determines the emergence of knowledge. A person's experience greatly influences the formation of knowledge, with someone's experience of something, it will increase one's knowledge of it. Included also in relation to the importance of knowledge of vegetable and fruit consumption. School children who have consumed vegetables and fruit will have their own knowledge through their senses

Repetition of consumption after the first consumption is strongly influenced by the acceptance and interest in the taste and aroma of vegetables, fruit.(Dresler, Whitehead, & Mather (2017) conducted a study of 36 boys and girls in the Manawatu Region of New Zealand, who said that children who have been exposed to vegetables and fruit (have consumed vegetables and fruit) will again consume vegetables or fruit depending on the factors of appreciation and the risk obtained from consumption of this type of food. The

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results of this study also found that children know and understand the importance of vegetables for the body, but for consumption of ayur and fruit then depends on the risks felt by children (related to children's sensory). Sensory children who prefer sweetness, make children tend to avoid strategies if they have to consume vegetables. Children who are often given vegetables and fruit on a regular basis, with a frequency that is relatively frequent so that almost becoming a habit at home will also increase the acceptance of vegetables and fruit in children. In accordance with Morris JL, Neustadter A (2001);O'Brien SA (2006); Poston SA, Shoemaker CA, (2005) which revealed that the number of opportunities for taste testing, vegetable or fruit preferences at the start, sample size, and duration of interventions can all influence children's vegetble and fruit taste preferences as a result of school nutrition interventions.

Another factor that influences respondents' knowledge in a sufficient category is one of them is gender. Most of the respondents are female. Women are different from men in knowing their nutritional needs. Women tend to pay more attention and care about health than men. Included in the fulfillment of vegetables and fruits at meals.. Pollard, etc (2009) stated that overall women were more lightly to know the recommended vegetable intake compared to men (p <0.001). However, the results of this study showed that there was no significant difference between the proportion of women and men correctly in identify the minimum recommended fruit intake.

Another factor that influences knowledge is age. Most respondents are in the 12-16 year age group. The age of 12-16 years is included in the age category of psychic development. The more people grow older, one can say that they will experience development and experience significant changes. The changes here referred to are the development of maturity in the thought process, and a more mature psychic. Rahayu Sri Ani, (2010) revealed that the increasing age of a person can make changes to physical, psychological, and psychological aspects. In the psychological aspects of a person's level of thinking is more mature and mature.

Sufficient knowledge on respondents is also influenced by interest. The interest in this discussion is the interest to consume vegetables. Interest is a tendency in the heart that is able to move someone to do or consume something because of a strong urge in themselves. By passing this interest, knowledge will be formed with what is based on the factor of trying something. Agree with Rahayu Sri Ani, (2010) which states that interest is a form of desire and interest in something. Interest makes someone to try and pursue something and in the end can get more in-depth knowledge. If studied from the results of knowledge that falls into sufficient category this, it is possible for children to consume less vegetables and fruits. Unwilling to try to consume vegetables and fruit makes children less able to know and understand vegetables and fruit.

Knowledge is also influenced by the media. Most of the respondent's families have 2 communication media namely cellphone and television. This media is very important to be able to help launch messages or information to the community with the aim of being affected and interested in doing / consuming something that is displayed on social media. Examples of media specifically designed to reach the wider community such as television, radio, newspapers, magazines and the internet (Rahayu Sri Ani, 2010). Information as a technique for collecting, preparing, and storing, manipulating, announcing, analyzing, and disseminating information with specific purposes and objectives that can be obtained through electronic and printed media (Rahayu Sri Ani, 2010).

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Children's knowledge about vegetables and fruit is also influenced by the involvement of the school. The role of the school is very helpful in improving students' knowledge. Various knowledge is obtained during school. The school in question here is the teachers at the school. All school activities have a good influence on students, including food consumption. The results of the study show that the gardening program in schools increases the knowledge of vegetables and fruit in school children. As many as 98.5% of children were able to mention 5 vegetables and fruits, with the kind that became the favorite of children is apples, bananas, carrots, oranges and strawberries (Hanbazaza MSc et al., 2015).

Student are educated by the school to have good eating habits, and can develop eating well. The lunch activity provided by the school contains a healthy menu consisting of rice, side dishes and vegetables making students have good eating habits. Feeding activities supervised by homeroom teachers, making students who may have been forced to consume vegetables, become accustomed to consuming vegetables.. Burghardt J, Gordon A, Chapman N, Gleason P (1993) walch states that the school environment helps someone to make changes positive for diet (Burghardt J, Gordon A, Chapman N, Gleason P, 1993). Research shows that companies that have promoted healthy lifestyles to protect the health of employees, indicate a return of positive incestations, namely increased performance. The study also found a possible relationship between food and performance (Burghardt J, Gordon A, Chapman N, Gleason P (1993); Mills, P.R., Kessler, R.C., Cooper, J. and Sullivan (2007). It takes the role of educational promotion to be able to improve children's knowledge, in accordance with V Silalahi; RM Putri; Ariani NL (2018) which revealed that there were differences in fruit intake for students after nutrition education to school teachers.

Preference Sayur

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Preference Most respondents have vegetable preferences in good categories. The results of this study indicate that the preference of elementary school children at the Eeleos Wagir Foundation is in the appropriate category expected. This good vegetable presence is obtained from the combination of attitudes and preferences of vegetables. From the results of this study illustrated that the attitude of school children about vegetables in a good category, however, for children's preference for vegetables in the category is enough. Most families of children, provide vegetables and fruit. However, almost half the other families rarely provide vegetables and fruit at home. Most families of children do not accompany children when consuming vegetables and fruits. From this data raises doubts whether children consume vegetables and fruits provided by the family? Children basically know that consumption of vegetables and fruit is important to them. Children will consigne food provided by their parents at home. However, the factor of eating assistance also plays an important role in the success of eating fruits and vegetables for children. The availability of vegetables and fruits at this house is one of the important parts in the consumption of children, which turns out to also be able to have an impact to bring out the children's preference for vegetables and fruit. Karena selalu terpapar dengan buah dan sayur maka akan muncul preferensi yang baik pada anak tentang jenis makanan tersebut. Heim, Stang, & Ireland (2009) state that children tend to consume foods that are available regularly for them, which means that exposure to fruit and vegetables early in life can affect children's future consumption by increasing their preferences and preferences for food, this. With parents always providing vegetables and fruit at home will also help instill

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vegetable eating habits later on. The taste preferences for V & F developed in childhood can continue throughout life (Lien N, Lytle LA (2001); Kelder SH, Perry CL, Klepp KI, (1994)

The school environment is one of the most prospective environments to help change children's behavior. School interventions that focus on increasing vegetable and fruit consumptions through increased exposure may be an effective approach to improving the quality of children's food and reducing the risk of chronic diseases. As an example of lunch activities held in schools, it would be very helpful to increase children's eating patterns. School environments can help promote changes in positive eating patterns (Burghardt J, Gordon A, Chapman N, Gleason P, 1993).

Other research results also show that school activities such as gardening and snacking programs in schools increase preference at consumption of vegetables and fruit in school children (Lautenschlager & Smith, 2007; Hermann JR, Parker SP, Brown BJ, Siewe YK, Denney BA, 2006). The researcher also said that this 18-month program increased fruit preference scores for children, and for vegetables there was an increase in preference 7 months after the intervention intervention declined to near the level at the beginning of 18 months. The findings also show that foods that are liked and disliked by children are the most frequent and most consumed foods by children while at home (Hanbazaza MSc et al., 2015) and increase the acceptance of vegetables and fruits (Morris JL, Neustadter A, 2001; Cason KL, 2002; Lineberger & Zajicek, 2000))

We all know that children love sweetness. From this reason there is also an understanding that why children prefer fruit over vetables. Children prefer sweetness as found in fruit compared to the bitter taste found in vegetables (Anzman-Frasca, Savage, Marini, Fisher, & Birch, 2012). This taste preference for sweetness can partly explain why children do not consistently increase their vegetable preferences during an 18-month intervention even though there are many opportunities to taste vegetables. This lack of consistent preference for vegetables is problematic because several studies have shown that vegetable and fruit predictors of satisfactors of satisfactors of consumption in children (Domel et al., 1996).

Increase the availability of Vegetables & Fruits in schools, at home, and in the community; opportunities for repeated taste testing for children; involving children in taste-tasting activities; family involvement in activities that promote healthy eating at home; explain to parents about the importance of a good nutrition role model; and involving children in direct activities 5 ith their peers such as planting and harvesting vegetables and fruit, all of which can be a strategy to increase children's vegetable and fruit intake and help children develop permanent healthy eating habits(Hanbazaza MSc et al., 2015)

NOWLEDGE AND VEGETABLE PREFERENCE, FRUIT

The results of statistical tests showed that there was no relationship between vegetable knowledge (preference and preference) in school children at Eleos Wagir Foundation. There was no correlation between knowledge and preference of vegetables in children because the role of vegetable and fruit availability at home was more dominant in relation to preference of vegetables compared to the knowledge of children. Parents who have a habit of providing vegetables and fruit for the family, and can ensure that their family members consume dishes prepared by parents, then over time the child will have a preference for veget les and fruit. Children tend to choose to consume foods that they serve regularly, and they tend to choose to eat foods available at home (C. et al., 2007).

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Young *et al.* (2013) that school children consume fewer vegetables than fruit consumption (p <0,0001). Although in this study the preference of vegetables and fruits was in the good category, it was still necessary to establish self-concept in children through continuous self-motivation in order to want to consume vegetables and fruits, and continue to be built so as to increase consumption of vegetables and fruits (Albani *et al.*, 2018).

Consumption of eating healthy and unhealthy children is influenced by the power of decisions taken by parents and the availability (supporting factors), as well as strengthening of mothers to pro 25 e healthy food and also peer strengthening not to consume unhealthy foods. The results showed that most of the respondents' parents accompanied them to eat vegetables and fruit in rare categories, and almost half of the respondents gave examples of consuming vegetables / fruits while at home. This data shows a discrepancy with the theory of Larson & Story (2009); Savage JS, Fisher JO, (2007) which reveals that parents are responsible for buying, preparing, and making food available for children and becoming role models for healthy eating; Therefore, they can have a greater impact on children's food preferences, which consequently can affect food preferences for life. Parents are expected to not only provide healthy food, but also provide assistance and role models / examples in consuming fruits and vegetables for their children.

Regarding the availability of vegetables and fruits, not all mothers are able to provide vegetables and fruits every day due to the high cost of fruit. With high financing needs for fulfilling consumption of vegetables and fruits, it is possible for families to experience food insecurity in the household and the lack of physical access for children to healthy food. The impact of this limitation is family difficulties in preparing high-quality food for children (Findlay LC, Langlois KA, 2013;(Willows ND, Veugelers P, Raine K, 2009); revealing that less consumption of vegetables and fruits at home can be a result from household food insecurity and lack of physical access to healthy food Financial constraints coupled with high costs and limited availability of nutritious food in many indigenous communities can make it difficult for families to provide high-quality food for their children(Huet C, Rosol R, 2012; Egeland, Pacey, Cao, & Sobol, 2010)

CONCLUSION

Most of the vegetable knowledge of school children is in the sufficient category Half of the respondents have vegetable preferences, each in a good, and sufficient category There is no relationship between knowledge with preferences (attitudes and preferences) of children's vegetables in the Yayasan Eleos Sukodadi Village, Wagir Sub-District, Malang Regency

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