



Effective Use of Props in Promoting Oral Health among Kindergarten School Children in Makassar, South Sulawesi

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Abstract

Efforts to maintain oral health and develop dental health, especially among school children, need special attention because at this age children are undergoing a process of growth and development. The problem in this research is the high percentage of caries rates in kindergarten children in Makassar. This research aims to determine parents' knowledge about maintenance of oral health in kindergarten children in Makassar covers knowledge about understanding caries tooth, knowledge about reason caries teeth, knowledge about the consequences of dental caries, knowledge about preventing dental caries, and knowledge about dental caries treatment. This type of research is research descriptive with amount respondents 41 respondents. Method collection data with filling out the questionnaire. The data analysis technique used is recapitulation The results of the data that have been collected are then calculated for each parent's data students, then the results of the calculations presented in tabular form and then presented. The research results show parents' knowledge about health tooth and mouth including in category good.

Keyword: Effective, Promotion of Children's Oral Health, Kindergarten School, Makassar, South Sulawesi

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1. Introduction

Efforts to maintain oral health and develop dental health, especially among school children, need special attention because at this age children are undergoing a process of growth and development. The previous condition of the teeth will influence the development of dental health in adulthood. If we look at the various efforts to prevent dental caries through School Dental Health Business activities, elementary school children should have a low caries rate, however, judging from the existing reality and based on research reports that have been carried out, most of the data shows that there is a high level of dental caries. Dental caries in school children is quite high (Warni, 2010).

Health tooth and mouth is part from health body Which No can be separated from one another, because of dental and oral health will affect overall body health. Dental disease and The most common oral problems found in the wider community are dental caries, caries No only happen on person mature but can also happen on child (Rachmat H. 2016).

Dental caries is a disease of dental tissue characterized by damage network, started from surface tooth (niche, fissure, And area interproximal) extends towards the pulp. Everyone can experience dental caries arise on One surface tooth or more, as well as can widespread to part Which deeper than the tooth, for example from enamel to dentin or pulp (Tarigan, 2016). Caries problem Children still complain about teeth a lot nor mature And No Can left until critical Because will affecting the quality of life that they will experience, pain, and inconvenience (Hanging et al., 2015).

So far This, caries tooth Still So problem health child. Based on data Riskesdas 2018 as many as 57.6% of Indonesia's population have dental problems and mouth during the past 12 months, but only 10.2% received treatment by power medical tooth. Based on group age, proportion biggest with dental and oral problems are in the 5-9 year age group (67.3%) with 14.6% has get maintenance by power medical tooth. *World Health Organization* (WHO) in 2003 stated that the incidence of dental caries in children 60% - 90%. Child is group public which is the amount quite large and has a fairly high





prevalence of dental caries, Survey Department Health Republic Indonesia Which done show that prevalence resident Indonesia Which suffer caries tooth as big as 80%, And 90% in among them is children.

Based on data obtained from the Minasaupa Makassar Community Health Center obtained total students examined as many as 41 children, with caries cases as many as 35 children with a percentage 85.4% of the percentage of dental caries cases. Caries-free rate for these criteria including category caries tall. Matter This show that level caries on Kindergarten children in Makassar are tall. In this case the role of parents very important regarding the high rate of caries in children, because at this age Still Not yet Can independent in guard health tooth And mouth, so the role of people old For guard health tooth And mouth child very important.

2. Research methods

Type study This is study descriptive with amount respondents 41 respondents. Method collection data with charging questionnaire. The data analysis technique used is recapitulation the results of the data that have been collected are then calculated for each dataperson old student, furthermore results from calculation served in form table and then presented.

3. Results and Discussion

a. Results

Distribution of Respondents' Answers on Parental Knowledge About Understanding Caries Tooth On Child Kindergarten In Makassar

Table 1.
Knowledge Person Old About Understanding Caries Tooth

Statement	Parent			
	Correct		Wrong	
	♣	%	♣	%
Damage on network hard tooth	21	51%	20	49%
Who just Which Can having teeth hole	40	98%	1	2%





If happen tooth hole What Whichfelt	41	100%	0	0
Amount total	102	249%	21	51%
Average	34	83%	7	17%
Criteria Knowledge	Good			

Based on the table above, the distribution of respondents' answers regarding understanding about caries tooth (83%) including in the good category.

Based on research, it is known that some parents still don't know understanding from damage on network hard tooth. But, Lots Parents already know who can experience cavities and answer correctly all about how it feels if a tooth occurs cavities. Dental caries is tissue disease tooth Which started with its occurrence damage network Which started from surface tooth (*pit, fissures, and area interproximal*), then expanded towards the pulp. Dental caries can be experienced by everyone and can also occur in one person surface of the tooth or more, and can extend to deeper parts of the tooth tooth, for example from enamel to dentin or to the pulp. There is some factors which causes it to happen caries tooth, among them are carbohydrates, microorganisms and saliva, tooth surface and anatomy (Tarigan, 2017).

Based on the description above, it proves that the parents of kindergarten children in Makassar new know just Not yet until Can apply his abilities For carry out his knowledge about understanding caries tooth with Correct, so that matter the can influence health tooth And mouth on his son.

Distribution Answer Respondent Knowledge Person Old About Reason
Dental caries on Child Kindergarten in Makassar.





Table 2.
Knowledge Person Old About Reason Caries Tooth

Statement	Person Old			
	True		False	
	✳	%	✳	%
What just reason tooth hole	33	80%	8	20%
Tooth milk Which easy experience tooth hole in surface Which fine	9	22%	32	78%
Type food Which could cause cavity	35	85%	6	15%
Food Which No can cause cavity	41	100%	0	0%
Amount total	118	287%	46	113%
Average	29.5	71.75%	11.5	28.25%
Criteria Knowledge	Enough			

Based on the table above, the distribution of respondents' answers regarding causes caries tooth (71.75%) including in sufficient category. Based on research, it is known that parents know more about causes caries, food reason caries than knowledge about surface characteristics tooth Which easy caught caries.

According to Kidd (2012), reason happen caries that is between other sticky plaque containing bacteria, the role of food carbohydrates such as sugar and chocolate, surface vulnerability on teeth, and time are important factors in process happen caries tooth.

Based on description on, knowledge person old about reason The occurrence of dental caries must be applied in everyday life, because can help child For guard health tooth And his mouth with method reduce sweet and sticky foods that can cause caries tooth.

Distribution answer respondents Knowledge person old about consequence caries teeth in children kindergarten in Makassar.





Table 3.
Parents' knowledge about the consequences of dental caries

Statement	Person Old			
	Correc t		Wrong	
	♣	%	♣	%
Which happen on tooth if tooth holes left	41	100%	0	0%
Consequence from tooth hole on child Which are not done maintenance	41	100%	0	0%
Consequence from tooth hole to growflower child	23	55%	18	44%
Amount total	105	255%	18	44%
Average	35	85.3%	6	14.7%
Criteria Knowledge	Good			

Based on table on, distribution answer respondents about consequence caries tooth (85.3%) included in category Good. Based on study is known that person old Still Not yet know The impact of cavities on children's growth and development. But, a lot parents answered correctly all about the consequences if your teeth have cavities left And No done maintenance.

Dental caries often occurs in children because children are predisposed more like food sweet Which Can cause happencaries tooth. Mouth No just For door entry food And drink, but function mouth more from That And No Lots person know. The mouth is an important part of our body and it can be said that the mouth is a mirror of dental health because of many common diseases have symptoms which can seen in mouth. On generally state of oral hygiene the child is worse and the child eats more foods and drinks that cause caries compared to adults. Children generally like sweets, if the child eats too much candy and seldom clean it, so his teeth Lots Which experience caries (Machfoedz And Zein, 2005).

Based on description on role person old very needed in maintaining children's dental health, especially in guiding and giving knowledge about consequence caused from caries tooth.

Distribution Answer Respondent Knowledge Person Old About Prevention





Dental caries On Kindergarten Children In Makassar.

Table 4.
Knowledge Person Old About Prevention Caries Tooth

Statement	Person Old			
	Correct		Wrong	
	♣	%	♣	%
It happened tooth hole can prevented	12	29%	29	71%
The food help in prevention of cavities	29	71%	12	29%
Statement Which is action prevention happen tooth hole	28	68%	13	32%
Amount total	69	168%	54	132%
Average	23	55%	18	44%
Criteria Knowledge	Not enough			

Based on the table above, the distribution of respondents' answers regarding prevention caries tooth (55%) including in the less category. Based on research, it is known that some parents still don't Find out what foods can prevent cavities. But, lots also person old Which Already know about action prevention if cavities occur.

According to Dance (2016), method prevent caries that is arrangement diet carbohydrates, plaque control by brushing teeth, using fluoride paste, selection of a good toothbrush, frequency and duration of brushing, control bacteria with use drug gargle, do closing *fissures* for prevent development lesion *fissure* caries on children.

Based on the description above, parents must understand and provide knowledge about how to maintain healthy teeth and mouth, especially how to Prevent dental caries in children. If parents have Good knowledge of dental and oral health and willing to teach patterns healthy living for their children, then children will have safe childhoods with teeth healthy too. Therefore, parents play a very important role in growing children's habits of brushing their teeth correctly and on time For prevent their occurrence caries tooth.

Distribution of Respondents' Answers about Parental Knowledge Maintenance





Caries Tooth On Child Kindergarten In Makassar.

Table 5.
Knowledge Person Old About Maintenance Caries Tooth

Statement	Person Old			
	True		False	
	♣	%	♣	%
Time Which appropriate For check it out tooth to doctor dental/clinic/puskesmas/home Sick	32	78%	9	22%
Method nurse tooth hole	41	100%	0	0%
Time Which appropriate rub tooth Which Good	39	95%	2	5%
Maintenance Which must done If tooth hollow child	23	55%	18	44%
Food Which Good For tooth so that still Healthy	41	100%	0	0%
Method look after health tooth And mouth	41	100%	0	0%
Benefit if We guard tooth since early	41	100%	0	0%
Amount total	258	629%	29	71%
Average	36.8	89.9%	4.1	10.1%
Criteria Knowledge	Good			

Based on the table above, the distribution of respondents' answers regarding treatment caries tooth (89.9%) including in good category. Based on the results of data collection and analysis, it can be seen that Parents' knowledge about dental caries treatment is in the Good category. Based on research, it is known that parents answered correctly all about method nurse tooth hole, food What just Which Good For to keep teeth healthy, how to maintain healthy teeth and mouth and benefits if we take care of our teeth from an early age. However, some parents still don't know about when time which appropriate for check it out tooth to doctor dental/clinic/puskesmas/hospital, when is the right time to brush your teeth what is good and correct then what care should be carried out if cavity. If caries has occurred, parents should immediately do so Have your child's teeth checked by a dentist/clinic/health center/hospital Can patching was carried out tooth.





According to Tulenan, et al (2014) tooth filling is one way to repair tooth decay so that teeth can return to their original shape and Can return works with Good. With close hole tooth use patch, so road enter bacteria will closed, so that Can stop damage tooth more carry on (Ramadan, 2010). Condemnationthat is something action maintenance with put material swear on cariestooth which are already cleaned.

According to Notoatmodjo (2012) education is an effort to gain knowledge in childhood that can change personality and abilities inside and outside school and continues throughout life, increasingly higher education somebody so the more easy person the accept informationOK from others as well as the media mass.

Condition tooth milk (tooth decidui) determine circumstances tooth permanent his replacement. Problem Which often happen on children pre school specifically child age 4 year is behavior in consume Eat or drink sweet, However No accompanied behavior clean tooth Which cause caries tooth (Daughter, Maemunah, & Rahayu, 2017). By Because That, role family specifically person old very role important in education child pre-school, how person old become example Which Good, guide, direct and motivate in caring for dental health.

Based on research results (Worang et al, 2014) it is stated that the role as well as from person get old Which needed child age preschool. Wrong One example The simple thing about maintaining children's dental health is always teaching child about time right And method Which Good For rub tooth and always remember that children should eat sweet food immediately gargle with water. With exists base - base knowledge Which obtained from person old, child can apply it in life daily Which carried it out.

Based on description on, person old can give explanationit's important do rub tooth in a way regular, method brushing tooth in a way Correctand when is the right time to brush their teeth so that children can get more understand and comprehend the importance of dental care so that teeth do not occur caries. On child age pre school tend express his emotionsfreely and openly, starting to enjoy trying new foods. Most of the time Consuming sugar is very influential in increasing childhood caries





incidence. Therefore, the role of the family, especially parents, is very much needed give health care tooth and mouth to his son.

Recapitulation Data Results Knowledge Person Old About Health Tooth and Mouth in Children Kindergarten In Makassar.

Table 6.
Recapitulation of Knowledge from All Questionnaire Question Indicators

Indicator Question	Flat-Flat Correct	Flat-Flat Wrong	Category
Knowledge about caries tooth	83%	17%	Good
Knowledge about reason caries	72%	28%	Enough
Knowledge about consequence caries	85%	15%	Good
Knowledge about method prevention caries	55%	44%	Enough
Knowledge about maintenance tooth	90%	10%	Good
Amount	386%	114%	
Average	77.2%	22.8%	Good

Based on table on can is known that knowledge parent about dental and oral health in children around 77.2% are included in category Good Mark the obtained based on calculation average The correct answer includes 5 aspects, namely parental knowledge about definition of dental caries, causes of dental caries, consequences of dental caries, prevention caries teeth and care caries tooth.

4. Conclusion

In this study it can be concluded that parental knowledge regarding Dental and Oral Health in Kindergarten Children in Makassar is Good.

5. Compliance with ethical standards

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Disclosure of conflict of interest

This research collaboration is a positive thing for all researchers so that conflicts, problems and others are absolutely no problem for all writers.

Statement of informed consent

Every action we take as authors is a mutual agreement or consent.

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