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## The Relationship Of The Role Of Parents In The Maintenance Of Dental And Oral Health With The Child's Dental Carries In The Time Of Covid-19 TK Safiyatuddin

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### ABSTRACT

Animated cartoons are media that contain a collection of images that are processed in such a way as to move and are equipped with audio so that they are memorable and store learning messages. The purpose of this study was to determine the effect of counseling using animated cartoon media on dental and oral health knowledge. Based on the results of the initial data examination conducted on 15 students, the results obtained were 2 students with good knowledge, 2 students with moderate knowledge, and 11 students with less knowledge. This research method uses a Quasi Experiment One Group Pre test-Post test design. The population in this study were all fifth-grade students of SDN 2 Lamcot Aceh Besar totaling 30 respondents. The sampling technique used was the Total Sampling technique. This research was conducted on 12-18 May 2022. Data collection using a questionnaire. This study used the SPSS Paired Sample T-test and analyzed univariately and bivariate. Based on the results of the study, there were differences in the mean before and after the intervention with a difference in the mean value of 40.1. The results of statistical tests obtained a significance value of  $p = 0.000$  ( $p < 0.05$ ). The results of this analysis indicate that there is a significant difference between before and after counseling using animated cartoon media. It can be concluded that in this study there was an effect of counseling using animated cartoon media on dental and oral health knowledge of fifth-grade students at SDN 2 Lamcot Aceh Besar. It is recommended to teachers and health workers at the local health center use animated cartoon media in increasing students' dental and oral health knowledge.

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### INTRODUCTION

Dental caries is the most common disease in the oral cavity so it is a major problem for oral health. Caries (cavities) is an infectious disease and is a progressive demineralization process in the hard tissues of the tooth surface by organic acids derived from sugar-containing foods.(1).

Dental caries in children is a common oral and dental problem. The main cause of dental caries in children is the buildup of plaque on the tooth surface. This plaque comes from food residue, dirt, and bacteria in the mouth (2).

Parents are one of the most important elements in the development of children's dental and oral health. The active role of parents in the

development of children is needed when they are still under preschool age. The active role of parents in question is to guide, provide understanding, remind, and provide facilities to children. Preschool age children cannot maintain oral hygiene properly and effectively, so parents must brush their child's teeth at least until the child is 6 years old and then supervise the procedure continuously. Early childhood should also be invited and introduced to the dentist. This is very useful in getting used to regular dental check-ups and overcoming a child's fear of the dentist. If parents play a role, the child will understand and observe, then the child can imitate what is done or taught by their parents. Parents must know how to take care of their

children's teeth, and parents must also teach their children how to take good care of their teeth (3).

As for the things that parents need to pay attention to regarding their child's dental health, the first is to keep the child's teeth and mouth clean by not letting the child drink milk without cleaning his teeth before going to bed. at least, after the child drinks milk, parents can provide water for gargling or brushing teeth if possible, both teach and ensure the child can brush his teeth in the right way at the right time, after breakfast and before going to bed. Third, take the child to the dentist to be given preventive care for cavities such as the provision of fluoride material or the closure of deep tooth gaps (fissure sealants). The fourth most important thing is to provide a gradual understanding according to the child's age so that they can learn to maintain their own dental and oral health. adult.(4).

Parents' knowledge and awareness of dentistry is the basis for the formation of supporting or not supporting habits for children's dental health. The parenting role is the process of helping dentists identify appropriate child behaviors and vice versa, learn problem-solving strategies, and develop impulse control, empathy, and self-esteem. This process aims to build communication, provide quality dental care, and build a trusting relationship between children, parents and dentists, and promote children's positive attitudes towards dental and oral health care.(5).

In maintaining children's dental health, parents have a significant influence, parents play a role as guardians of children's health, firstly as caregivers of dental health, including providing good food intake for dental health according to age. Good foods such as vegetables and fruit that contain lots of fiber and are watery, whole grains and fish that contain lots of natural flour and reduce the intake of sweet and sticky foods. Second, dental health education in children must be obtained first from the family environment, this is the importance of insight into the healthy paradigm that must be instilled by parents. This education is like how to brush your teeth properly. Parents also act as motivators such as giving motivation, gifts and praise because the role of parents in accompanying the child to learn is to provide encouragement so that the child forms healthy behavior in the future. (6).

The current COVID-19 pandemic continues, which is the reason parents need to be extra and always routinely maintain their children's dental hygiene and health to avoid problems with their children's teeth and mouth. With the healthy condition of the child's teeth and mouth, it can prevent the occurrence of toothache, so that the child does not need to be treated in a hospital and can avoid the risk of being exposed to the COVID-19 virus. Efforts to maintain dental and oral health during the pandemic can be done at home by brushing your teeth regularly with the right technique, changing your toothbrush every 3 months, choosing toothpaste that contains fluoride, and using mouthwash after brushing your teeth to maintain your health. teeth optimally. This is because the function of the mouthwash / mouthwash is to clean the deep areas that are not reached by the toothbrush, and use dental floss (flossing) to help clean the food left between the teeth (7).

During the COVID-19 pandemic, there were restrictions on human activities, including limited access to dental health services, so that prevention is more important than treating or treating. Visits to the dentist are only for emergency cases. People play an important role in supporting their children to maintain dental health and must also have sufficient knowledge about dental and oral health. Inadequate knowledge can result in an unfavorable impact on the health aspects of children.(8).

According to the Ministry of Health's Basic Health Research (Riskesdas) data in 2018, the prevalence of dental caries in the Acehese population reached 48%. And the prevalence of caries in Indonesia is 88.8%, with the largest proportion of children 67.3%. (9). Based on this description, the author is interested in conducting research on "Related Role Of Parents In Maintenance Of Dental And Oral Health With Child's Dental Caries In The Covid-19 Time Of Safiyatuddin Tk".

## **METHOD**

This research was conducted with an analytical survey method. The design used is cross sectional. That is a research method, which is directed to explain a situation or situation where the cause and effect variables on the object of research are measured and collected at the same time. The population of this study

were all parents of children in TK Safiyatuddin, totaling 35 children. The research sample was taken by total sampling, where all the population was sampled.

**RESULTS**

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**Results and Discussion**

The results of the study showed the following results:

**Table. 1 Distribution of the frequency of respondents the role of parents of children in Kindergarten Safiyatuddin.**

No	The role of parents	F	%
1	Well	8	22,8 %
2	Enough	17	48,6%
3	Not enough	10	28,6 %
	Total	35	100

Based on table 1. It can be seen that the majority of the roles of the parents of Tk Safiyatuddin are sufficient as much as 28.6%

**Table 2. Frequency Distribution Of Dental Caries In Safiyatuddin Kindergarten Children**

No	Children's dental caries	F	%
1	Mild Caries	5	14,3 %
2	Medium Caries	14	40%
3	Severe Caries	16	45,7 %
	Total	35	100

**Table 3. Frequency Distribution Of Parental Roles And Caries In Children Of Kindergarten Safiyatuddin**

	Dental caries			To
	mild	moderate	heavy	

Role of People Old	caries		caries		caries		tal	
	f	%	f	%	f	f	%	
Well	5	14	0	0	3	9	8	23
Enough	0	0	11	31,5	6	17,1	17	48,5
Not enough	0	0	3	8,6	7	20	10	28,5
Total	5	14	14	40	16	46	35	100

Based on table 4. It can be seen that the parents who played a good role were 23%, including the results of mild dental caries as much as 14%, moderate caries 0, and 9% severe caries. Meanwhile, parents who played a sufficient role were 48.5%, with mild caries 0, moderate caries 31.5% and severe caries 17.1%. And parents who have less role as much as 28.5% with mild caries 0, 40% moderate caries and 46% severe caries. From the results of the chi square statistic, it was found that p value = 0.00 (p < 0.005), indicating a relationship between the role of parents in maintaining oral health and dental caries in children during the Covid-19 period at Safiyatuddin Kindergarten.

**DISCUSSION**

Based on the results of table 1 research regarding the role of parents in maintaining dental and oral health with children's dental caries during the COVID-19 Tk Safiyatuddin period, which has been carried out with a sample of 35 parents, the majority of parents play a sufficient role as much as 48.6%, while parents play a role. less as much as 28.6, and parents play a good role as much as 22.8%. Based on the results of the answers from respondents at the time of filling out the questionnaire where the majority of respondents as much as 56% answered that sometimes limiting food is too sweet for children.

Sweet foods that contain high sugar can cause children to have problems with the mouth and teeth. this is because too sweet food can cause streptococcus bacteria to multiply easily, bacteria that accumulate due to sweet foods can erode the outside of the teeth so that they form holes in the child's teeth, parents should limit their children's consumption of sweet foods and drinks and eat more fruits and vegetables. (10)

Parents can take preventive steps so that their child's teeth are not damaged or cavities, by reducing or avoiding eating foods that contain

sugar such as candy, chocolate which can lead to tooth decay. healthy food choices such as fruit, vegetables, yogurt can be consumed by children. this can reduce the risk of oral and dental problems in children.(11)

The results of the study in table 2 show that the majority of dental caries in Safiyatuddin Kindergarten children experienced severe caries as much as 45.7% while 40% moderate caries and 14.3% mild caries. This study is in line with the 2018 aceh health research data that in aceh the caries rate in children is high with the category of children aged 3-4 years experiencing caries as much as (32.9%) and children aged 5-9 years experiencing caries as much as 53.3%. (Riskesdas, 2018)

Based on statistical tests using the chi square test, it was found that there was a relationship between the role of parents and the incidence of dental caries in children during the COVID-19 pandemic at Safiyatuddin Kindergarten with a p value = 0.00 ( $p < 0.05$ ).

## **CONCLUSION**

Based on the results of the study and discussion, it can be concluded that there is a significant relationship between the role of parents and children's dental caries during the covid-19 pandemic with a significant value in the results showing ( $p = 0.00 < 0.05$ .)

## **REFERENCES**

1. Wardani K, Kga S, Gigi K. karies gigi dan penanganannya. karies gigi dan penanganannya. 2020;21-4.
2. Yustika G. karies pada Anak, Ini Penyebab dan Cara Mengatasinya! 2022;1-6.
3. Louisa M, Budiman JA, Suwandi T, Audry Arifin SP. Pemeliharaan Kesehatan Gigi Dan Mulut Di Masa Pandemi Covid-19 Pada Orang Tua Anak Berkebutuhan Khusus. J AKAL Abdimas dan Kearifan Lokal. 2021;2(1):1-10.
4. oktavia ts. Pentingnya Peran Orang Tua dalam Menjaga Kesehatan Gigi dan Mulut Anak. 2017;1-7.
5. Manbait MR, Fankari F, Manu AA, Krisyudhanti E. Peran Orang Tua dalam Pemeliharaan Kesehatan Gigi dan Mulut. Vol. 1, Dental Therapist Journal. 2019. p. 74-9.
6. BIA. 4 Peran Orang Tua Menjaga Kesehatan Gigi Anak. Dent Cent [Internet]. 2020;3-5. Available from: <https://biadentalcenter.com/articles/id/47/4-peran-orang-tua-menjaga-kesehatan-gigi-anak>
7. Haba D radja. Pentingnya Menjaga Kesehatan

- Gigi dan Mulut Di Masa Pandemi Covid 19. roby r. 2020;1-8.
8. Navlyn Ramadhany V, Ratna Laksmiastuti S, Dwimega A. Gambaran Pengetahuan Orang Tua tentang Kesehatan Gigi dan Mulut Anak di Masa Pandemi Covid-19 (Kajian pada TK Orchid Ciangsana). J Kedokt Gigi Terpadu. 2021;3(2):65-7.
9. Kemenkes. laporan riskesdas nasional 2018. Lap Riskesdas Nas 2018. 2018;120.
10. dr.gabriella florencia. Batasi Makanan Manis untuk Mencegah Sakit Gigi. 2020;29.
11. Wahyu R permana. Ketahui Pentingnya Peran Orangtua dalam Menjaga Kesehatan Gigi dan Mulut Anak Opini. 2021;
12. Risest kesehatan dasar. laporan provinsi aceh riskesdas 2018. aceh; 2018.