# Parents Behavior Related to Caries Status of Children with Down Syndrome in Surabaya

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## Parents' Behavior Related to Caries Status of Children with Down Syndrome in Surabaya

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#### **ABSTRACT**

Background. Down syndrome (DS) is a chromosome disorder due to the presence of all or part of a third copy of chromosome 21 (trisomy 21) caused by a failure in chromosome segregation. Following Riset Kesehatan Dasar (RISKESDAS) in 2013, the number of people with DS in Indonesia increased compared to 2010, with an estimated 924 children with DS in Surabaya. Data regarding caries status in children with DS in Surabaya is limited.

**Objective.** To evaluate parents' behavior (predisposing, enabling, and reinforcing factors) related to the caries status of children with DS.

Methods. This observational analytic cross-sectional study included children aged ≤18 years with DS and parents who were members of the Parents' Association of Children with Down Syndrome (POTADS). Caries status were measured using the DMF-T/def-t score, and parents were asked to fill out a questionnaire. Data were analyzed using Spearman's correlation test.

Result. We included 46 children with DS in this study. The DMF-t / def-t index of children with DS (7.2) was categorized as very high according to WHO. There was a significant relationship between lack of knowledge of parents and caries status in children with DS. Enabling factors and reinforcing factors were not significantly correlated with caries status.

**Conclusion.** Parents' behavior is correlated with the caries status of children with DS. All combination of three factors behavior, including predisposing, enabling and reinforcing, are needed to reduce the number of caries in children with DS.

Key Words: behavior, caries, Down syndrome, DMF-T/def-t

19 INTRODUCTION

Down syndrome (DS) is a chromosome disorder due to the presence of all or part of the third copy of chromosome 21 (trisomy 21) caused by a failure in chromosome segregation. DS was discovered in 1866 by Dr. John Longdon Down.¹ Following Riset Kesehatan Dasar (RISKESDAS) in 2013, the number of people with DS in Indonesia increased compared to 2010, with an estimated 924 children with DS in Surabaya.².³

A community service on dental and oral prevention and care held by The Pediatric dentistry department Faculty of Dental Medicine Universitas Airlangga in 2017 found that out of 34 children with DS, about 60% of them had DMF-T/def-t score that was categorized as high. Currently, there is contradictory data on the caries status of children with DS. Some studies showed that children with DS have lower caries compared to adults. Delayed tooth eruption, agenesis, microdontia, and spacing, are thought to be the reasons for

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**Table 1.** Relationship between predisposing factors and DMF-T/def-t score of children with Down syndrome

Predisposing	DMF-T/def-t (low)		DMF-T/def-t (high) Total Significa		Significance			
Factors	N	%	N	%				
Not good	10	34.4	19	65.6	29	Correlation coefficient = 0.67		
Good	3	17.6	14	82.4	17	p-value = 0.00		
	13		33		46	_		

**Table 2.** Frequency distribution of knowledge of parents of children with Down syndrome

Knowledge	True	%	False	%
Frequency of brushing teeth	26	56.5%	20	43.5%
Time to brushing teeth	5	10.9%	41	89.1%
Cause of cavities	7	15.2%	39	84.8%
Fluoride toothpaste	9	19.6%	37	80.4%
Time to visit the dentist	24	52.2%	22	47.8%
Age to starting dental examination	21	45.7%	25	54.3%

low caries rate. However, the low oral pH value in children with DS due to food residue at interdental areas may lead to demineralization and higher caries prevalence.<sup>5</sup>

Children with DS who are younger than 8 years of age are unable to do daily toothbrushing due to their limited motor skills, intellectual disability, and limited sensory function. Thus, they need parents' or caregivers' assistance in brushing their teeth. <sup>5,6</sup> Unfortunately, parents often prioritize medical treatment and tend to postpone dental visits. <sup>7</sup>

Information regarding parents' behavioral factors affecting the dental health of children with DS is scarce. There are different opinions and the cause is still unknown. Proper attempts and plans to overcome the challenging oral health problem cannot be made unless the cause is found. Parents' behavior is affected by three factors, namely predisposing, enabling, and reinforcing factors. The aim of this study was to correlate parents' behavior based on predisposing, enabling, and reinforcing factors to the caries status in children with DS in Surabaya.

#### MATERIALS AND METHODS

#### Study Design and Population

This cross-sectional and analytical observational study enrolled children with DS aged of ≤18 years old and their parents as respondents through total enumeration sampling. The respondents also participated in community service for Parents' Association of Children with Down Syndrome (POTADS) in the Pediatric Dentistry Clinic of a hospital in Surabaya, Indonesia, the Rumah Sakit Gigi dan Mulut Universitas Airlangga (RSGM UNAIR). The study design was approved by Faculty of Dental Medicine, Universitas Airlangga Health Research Ethical Clearance Commission, certificate No: 703/HRECC.FODM/X/2019.

#### Procedure

The inclusion criteria of the study were: 1) Parents who signed informed consent; 2) Parents of children with DS aged ≤18 years who were willing to fill up the questionnaire; 3) Literate parents; 4) Children with DS aged ≤18 years. The present study deployed a questionnaire to measure parents' behavior. It consisted of 42 questions, including predisposing factors, enabling factors, and reinforcing factors. The questionnaire passed the validity test and pretested to 30 respondents. The trial results were not included as a sample. The caries status was measured using the DMF-T/def-t index, which was calculated as follows: a total of decay (d) + missing (m)+ filling (f) and divided by the number of examined persons. The DMF-T/def-t categories include: 1) <1.2 = very low; 2) 1.2 to 2.6 = low; 3) 2.7 to 4.4 = moderate; 4) 4.5 to 6.5 = high; 5) >6.5 = very high. The data obtained from the questionnaire of parent's behavior were processed using SPSS 25; the data were analyzed using Spearman technique.

#### **RESULTS**

The respondents involved 46 children with DS and their parents. The mean DMF-T/def-t score (7.2) was categorized as very high, according to WHO. There was a significant relationship between the predisposing factor and caries status of children with DS measured using DMF-T/def-t index (Table 1).

The predisposing factor was viewed based on three aspects: namely, knowledge, attitude, and behavior. The questionnaire revealed that 87% of the parents did not have adequate knowledge of dental and oral health in children with DS about 43.50% of parents of children with DS did not make a correct answer regarding tooth brushing frequency, 89.1% of parents did not know the right time to brush the teeth, 84.8% did not know the causes of tooth decay, and 47.8% of them did not know the right time for a periodic dental visit (Table 2).

There was no significant relationship between enabling factors and caries status of children with DS (Table 3).

Based on the result of the study, it was found that the parents of children with DS supported their children's dental health, they supported and facilitated their children for dental visit. The parents provided health insurance and were willing to conduct periodic consultation with a pediatric dentist (Table 4).

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Table 3. Relationship between enabling factors and DMF-/def-t score of children with Down syndrome

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Enabling Factors		DMF-T/def-t (low)		T/def-t gh)	Total	Significance
ractors	N	%	N	%		
Not good	4	25	12	75	16	Correlation coefficient = 0.03
Good	9	30	21	70	30	p-value = 0.83
	13		33		46	

**Table 4.** Frequency distribution of enabling factors of parents of children with Down syndrome

Enabling factor	Yes	%	No	%
Consultation to pediatric dentistry	24	52.2%	22	47.8%
Parents still go to the dentist despite obstacles	45	97.8%	1	2.2%
Health insurance	28	60.9%	18	39.1%

**Table 7.** Relationship between reinforcement factors and DMF-T/def-t score of children with Down syndrome

Reinforcement Factors		T/def-t ow)	DMF-T/def-t (high)		Total	Significance	
ractors	N	%	N	%			
Not good	1	13.6	6	86.4	7	Correlation coefficient	
Good	12	14.3	27	85.7	39	= 0.079 - p-value = 0.601	
	13		33		46	p-value = 0.001	

About 58.7% of the respondent state that the parent's working time makes them difficult to take their child to visit the dentist (Table 5).

The questionnaire showed that the cost dental visit is one of inhibit factor for them going to the dentist. Supported by data mentioning that 82.6% of the parent's earn less than 5 million rupiahs/ month as income (Table 6).

There was no significant relationship between reinforcing factors and caries status of children with DS (Tables 7 and 8).

#### **DISCUSSION**

Dental caries is a microbiological dental infection that leads to damaged dental calcification. Dental caries development is a dynamic and continuous process, including demineralization by the organic acid from microbes and remineralization of saliva component, where mineral loss

Table 8. Frequency distribution of reinforcing factors of parents of children with Down syndrome

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Reinforcing factor	Yes	%	No	%
POTADS activities	40	86.9	6	13.0
Information from POTADS	46	100.0	0	0
Information from dentist	29	63.0	17	37.0
Quality service	39	84.8	7	15.2

POTADS, Parents' Association of Children with Down Syndrome

**Table 5.** Frequency distribution of parents' inhibiting factors

Parents' Inhibiting Factors	No.	%
Cost	19	41.3
Working time	27	58.7

**Table 6.** Frequency distribution of parents' income (in Indonesian Rupiah)

Income	No.	%
≤ 5 million	38	82.6
> 5 million	8	17.4

is greater than the mineral gain. <sup>10</sup> According to some researchers, the caries rate in children with DS is relatively low due to the number of teeth, delayed tooth eruption, hypodontia, a diastema, small mesiodistal, and high sIgA level. <sup>11</sup> Other researchers state that caries may occur in children with DS when there is food residue, which leads to demineralization. <sup>5</sup>

Parents of children with DS have greater responsibility and must pay attention to the child's daily activities and development such as wearing clothes, self-cleaning, such as tooth brushing, due to limited motor function. They must also pay attention to the systemic conditions that occur in their children. The health behavior of parents are affected by predisposing, enabling, and reinforcing factors. Predisposing factors refers to factors facilitating the emergence of one's behavior comprising knowledge, attitude, and behavior. 

\*\*Batterian DS have greater responsibility and motor functions that occur in their children. The health behavior of parents are affected by predisposing, enabling, and reinforcing factors. Predisposing factors refers to factors facilitating the emergence of one's behavior comprising knowledge, attitude, and behavior.

In this study the mean DMF-T/def-t score (7.2) was categorized as very high. There was a significant relationship between the predisposing factors and caries status of children with DS in Surabaya. Most parents did not have adequate knowledge of dental and oral health in children with DS, including the right time to brush teeth and causes of tooth decay. On other hand, less than 50% of parents of children with DS did not correctly answer the question regarding tooth brushing frequency and the right time for a periodic dental visit. Most parents did not know basic knowledge about maintaining daily oral hygiene such as

proper frequency and time to brush their teeth. Such a lack of knowledge may adversely affect the child's dental and oral health, considering that children with DS need the parents' assistance and monitoring regarding hygiene and tooth brushing. Mothers' lack in knowledge in dental health will mislead their children who imitate their mothers' behavior, given that they are the closest personw and role models for their children.<sup>13</sup> There was a significant relationship between mother's knowledge and child's dental caries, indicating that the higher the mother's knowledge of dental health, the lower the caries risk.<sup>14</sup>

Parents' knowledge affects the caries status of children in terms of the mother's age, education, and occupation. Age is one of the factors determining one's maturity in thinking, acting, or learning.15 In the present study, more than 50% of mothers graduated from university. Their average age was 30 years an age at which the mother has maturity of thinking, acting, and learning. However, it was found that the DMF-T/def-t index was very high; this may be caused by the parents' lack of understanding on the importance of knowledge. Knowledge is a cognitive field with different levels, such as knowing, understanding, applying, analyzing, synthesizing, and evaluating.16 Knowledge is a result of 'knowing' and this emerges after sensing a certain object. The lower an individual's knowledge and awareness of maintaining and caring for their dental health, the higher risk of dental caries.8

Another factor, according to Lawrence Green, is the enabling factor. It is one of the factors which inhibit the parents' good health behavior. There was no significant relationship between the enabling factor and caries status of children with DS in this study. The parents of children with DS supported their children's dental health, and facilitated their children's dental visit. The parents provided health insurance and were willing to conduct periodic consultation with a pediatric dentist.

Concerning dental health access and facilities, the parents stated that they did not find difficulties to go to the dentist. Although they also perceived that the dentists were very informative and provided quality services, not all of them visit and consult with the dentist. This may be because not all regions have sophisticated medical staff such as a pediatric dentist to treat children with special needs. Parents took their child to a general dentist in Community Health Service Center near their home where there were no pediatric dentist specialist services available. Unfortunately this clinic did not provide adequate facilities to treat children with Down syndrome. Saeed and Mohamed reported that the use of dental care service and parents' satisfaction increased when the distance was relatively short and three were good facilities.<sup>17</sup>

Parents of children with DS support the child and provide better dental health using health insurance to facilitate dental visits. However, this is contradictory to the very high caries status of the children in this study. This

is in contrast with previous studies that found a positive relationship between one's health behavior and health insurance use, where individuals with health insurance use his or her insurance for dental and oral care.18 The different result in this study may be accounted for by the fact that although the parents had facilitated their child's dental care with health insurance, they did not have enough time to take their child for a dental visit. Parents stated that working time and cost (insufficient income) were factors that hampered them from taking their child to the dentist. Most parents had a monthly income of less than 5 million, and not all parents had health insurance, forcing them to spent more money for the treatment. Some studies showed that parents, in general, tend to prioritize medical issues and delay dental visits for their children probably due to long working time and limited parent's income.5 Dental care utilization can be improved if the hospital provides high-quality dental care at a reasonable price. In Indonesia, as stated in a study, there is a relationship between the use of service and the information, service quality, and the health facility.17

One's socio-economic status affects his or her health; a family with low economic status tends to have children with high caries status because they will go to the dentist only when they get a toothache. This phenomenon indicates a problem relating to cost.<sup>19</sup> Children of parents with adequate income have the opportunity to enjoy health services. Children of parents with sufficient income may enjoy better health services.<sup>20</sup>

The third factor proposed by Lawrance Green is the reinforcing factor; this factor refers to the factor supporting the emergence of behaviour. There was no significant relationship between the reinforcing factor and caries status of children with DS in this study. The parents' reinforcing factor was categorized as good; as seen in the parents' cooperation in activities held by POTADS. The caries status of children with DS was very high, may be because parents of children with DS had just joined POTADS for 1-3 years, and had not participated in oral and dental health community service held by this organization. They stated that these activities provided information and knowledge regarding their child's dental health, among other information. The significant role of POTADS and health workers was shown in the events they held. In addition, the support of public figures such as a teacher or dentist as a role model is considered important to form dental health behavior which can guide and develop community awareness. Guidance may start from family, school, and the environment around the house.21

Green's theory state that one's behavior is determined by three main factors, namely: predisposing factor, enabling factor, and reinforcing factor. Accordingly, one factor alone will not be able to form an individual's good behavior. With regard to Lawrence Green's Precede-Proceed Model, as cited by Notoatmojo<sup>8</sup> states that a behavior exhibited by an individual is a result of a process of functional factors in the following formula: B = f (Pf, Ef, Rf) where: B =Behavior as

the dependent variable f = Pf function = Predisposing factors Ef = Enabling factors Rf = Reinforcing factors.21

This study showed that parents' behavior was categorized as 'not good' and that children with DS had 70% of normal DMF-T. On the other hand, another study that found 83% of children with DS to be caries-free compared to control (42.5%). Caries-free condition is associated with the diet behavior of a child with DS, clean environment, controlled diet, hypodontia, microdontia, a diastema, saliva's high (pH) concentration, and delayed eruption pattern.<sup>22,23</sup> This study concurs with other studies that found similar DMF-T/ def-t scores in individuals with DS and healthy children. This was caused by low awareness of oral health among the population, lack of preventive programs, and bad oral health promotion. In addition, lack of knowledge regarding good oral health practice between the parents and the caregiver, lack of motivation, low priority on dental care, and lack of facilities for early, periodic dental care were also contributory factors.7

#### CONCLUSION

Parents' behavior is correlated to caries status in children with DS. To reduce the caries rate, three factors (i.e., predisposing, enabling, and reinforcing factor) on parents' behavior should be improved.

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#### Statement of Authorship

All authors participated in the data collection and analysis and approved the final version submitted.

#### Author Disclosure

All authors declared no conflicts of interest.

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