Correlation between Mothers Behavior with Periodontal Status and Periodontal Treatment Needs in Autistic Children

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Correlation between Mother's Behavior with Periodontal Status and Periodontal Treatment Needs in Autistic Children

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ABSTRACT

Background. Autism is a form of a neurological disorder. Autistic children have problems related to physical, psychological, and mental barriers that can hinder their ability to achieve optimal dental health status. Therefore, in maintaining the dental health of autistic children, it is influenced by parents teaching skills and habits in autistic children's life. From previous study, there were about 17.4% autistic children in Saudi Arabia suffering from bleeding of the gingiva. Periodontal disease is often found in autistic children.

Objective. This study analyzes the relationship between mother's behavior with periodontal status and periodontal treatment needs of autistic children.

Methods. Analytical observational study with cross-sectional approach at AGCA Centre Surabaya with a total sample of 34 pairs of autistic children and their mothers. This study used the HU-DBI questionnaire which consisted of knowledge, attitude, and mother's action and oral examination of autistic children with the CPITN index.

Results. Of the autistic children, 55.8% had healthy periodontal status. The knowledge, attitudes, and actions of mothers were high. Statistical results with Spearmen correlation test obtained a value of p>0.05 on aspects of knowledge, attitudes, and actions towards the CPITN index and periodontal treatment needs.

Conclusion. There was no significant correlation between the mother's behavior and the periodontal status and periodontal treatment needs of autistic children in managing their oral health.

Key Words: periodontal tissue, CPITN index, mother's behavior, autism

INTRODUCTION

Autism can be defined as a neurological development disorder that causes children to appear unable to relate to others, as if they live in their own world.¹ The main characteristics of autism are related to problems of social interaction with others, communication disorders, repetitive behavior, and cognitive instability.² The Centers for Disease Control and Prevention (CDC) in the United States in March 2013 reported that the prevalence of autism increased to 1:50 in the past year. When the number of births in Indonesia is 6 million per year, the number of autistic children in Indonesia increases by 0.15% or 6,900 children per year.³

In Saudi Arabia, 17.4% of autistic children have been reported to have gingival bleeding.⁴ Meanwhile, Da Silva et al. (2017) state that oral health problems that are often found in autistic children are periodontal disease.⁵ Meanwhile, the dominant periodontal disease that is found

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in children and adolescents is gingivitis.⁶ Gingivitis is an inflammation that only involves gingival tissue with no loss of attachment or bone.⁷

Due to the problems of social interaction with others, communication disorders, and cognitive instability, autistic children cannot maintain their oral hygiene individually. Kalyoncu and Tanboga (2017) state that there was no difference between the prevalence of periodontal disease in autistic children so that the incidence of periodontal disease in autistic children is not much different from normal children. Another previous study also mentions that autistic children can maintain their good oral hygiene despite the limitations they have but their oral hygiene is based on family members healthy lifestyle habits. 10

Autistic children's behavior in maintaining dental health such as tooth brushing habit and not being afraid to go to the dentist can be influenced by families/parents that teach skills and habits in autistic children's daily life. Tor this reason, oral health of autistic children is very dependent on their parents'. The mother is the closest person to a child who always educates, teaches, and trains children's skills, especially in terms of maintaining oral hygiene. A child tends to take a behavior similar to his/her mother's behavior due to a process of imitation of a model that he/she considers important. Mother's behavior regarding toral health can be used to predict the status or condition of the child's oral health.

A few other studies describe the correlation between mother's behavior with periodontal status and periodontal treatment needs in autistic children. For this reason, the researchers wanted to examine the correlation between mother's behavior towards the periodontal status in children with autism and their periodontal treatment needs.

MATERIALS AND METHODS

This was an observational analytic study using a cross-sectional study design. The study was conducted at Special Education AGCA Centre Surabaya in September - October 2018. The population in this study were all children diagnosed with autism in the Special Education AGCA Centre Surabaya, i.e., 34 students along with parents of autistic children according to the selection criteria for the research; each study partcipant had signed an informed consent form and the research protocol had been approved by an ethics committee. Criteria for selection of research subjects include: children diagnosed with autism, aged 3-14 years, in a healthy physical condition, coming accompanied by parent or caregiver, and being cooperative. The sampling technique used was total sampling.

Data collection was obtained from the results of the HU-DBI modification questionnaire (Hiroshima University - Dental Behavioral Inventory) regarding the behavior of maintaining oral health by mothers as parents of autistic children and examining the status of periodontal tissue of autistic children using the CPITN Index.¹³ Informed

consent was given by mothers as respondents to be asked for research approval; respondents were interviewed directly to answer the questionnaire, and the status of periodontal of autistic children was examined using the CPITN Index. The results obtained were processed and presented in table form. Data analysis was performed using the Spearmen correlation test to analyze the relationship between the mother's behavior and the status of periodontal health and periodontal treatment needs in autistic children.

RESULTS

Data collected from questionnaire were in the form of the general characteristics of respondents and the relationship between mother's behavior and health of periodontal tissue and periodontal care needs of autistic children. In this study group, most of autistic children were at the age of 7-9 years in the mixed dentition stage at 50%, followed by the age group >10 years at 26.47%, and the age group 3-6 years at 23.5%.

The educational background of the mothers with college education was 79.41%, followed by the group of mothers with primary education (Elementary/Junior High/Senior High School) which was 20.58%. In this study, it was found that 47% of mothers did not have jobs, which was the majority of the total number of samples, followed by mothers who worked as private employees at 32.35%, mothers who worked as civil employee at 8.8%, and mothers with other jobs. Most mothers who had independent income above 3 million rupiahs consisted of 50% of the total sample; mothers who did not have independent income were 29.41%; mothers with income range of 1 million - 3 million rupiahs were 17.64%; and mothers who had independent income under 1 million rupiahs were 2.94%.

Table 1 shows that most autistic children had a score of 0 or healthy periodontal tissue, i.e., 19 children (55.8%). Then, there were 8 children with autism who experienced bleeding on probing (23.5%), and children whose teeth had sub/supra gingival calculus on probing consisted of 7 (20.5%). Table 2 shows that most children did not need periodontal treatment, i.e., 19 children (55.8%). In addition, 8 children (23.5%) needed an improvement in oral hygiene, while 7 children (20.5%) needed dental health education and professional scaling. In this study, a HU-DBI questionnaire was used to measure the behavior of mothers in caring for and maintaining the health of their children's dental and oral health. Table 3 shows the distribution of mother's behavior in maintaining the children's dental and oral health. It is known that behavior is divided into three aspects, namely aspects of knowledge, attitudes, and actions. In the aspect of knowledge, it has the highest average value as compared to the other two aspects, namely all respondents had high scores or had average of 100%. Furthermore, the attitude aspect had a low value of 8.8% and a high value of 91.1%. In addition, the aspect of action had low value of 47% and high value of 53%.

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Table 1. Periodontal status in autistic children with the CPITN index

Score of CPITN	Frequency	Percentage (%)
0	19	55.8
1	8	23.5
2	7	20.5
3	0	0
Total	34	100

Table 2. Periodontal treatment needs in autistic children with the CPITN index

Treatment needs	Frequency	Percentage (%)
0	19	55.8
1	8	23.5
2	7	20.5
3	0	0
Total	34	100

Table 3. Distribution of mother's behavior in maintaining children's dental and oral health

Aspect	Frequency	Percentage (%)	
	Knowledge		
High	34	100	
Low	0	0	
	Attitude		
High	31	91.1	
Low	3	8.8	
	Action		
High	18	53	
Low	16	47	

Table 4. Spearman correlation between mother's behavior and CPITN score

Score	∣Know	ledge	Atti	tude	Act	ion
CPITN	Sig (p)	r	Sig (p)	r	Sig (p)	r
Treatment	0.5	0.10	0.4	-0.32	0.7	-0.54
Needs	0.5	0.10	0.5	-0.10	0.6	-0.85

Once the results of the study were analyzed, it was found that the significance value (p) was > 0.05, so there was no correlation seen between the mother's behavior and the periodontal status (CPITN score), both from the aspects of knowledge, attitudes, and actions of the mothers and correlations with children's treatment needs (Table 4).

DISCUSSION

In this study, the number of autistic children examined was mostly male, i.e., 61.7%, while females consisted of only 38.3%. This is consistent with Nugraheni's research in 2012 stating that the prevalence of autism ranged from 1-2 per 1000 inhabitants and mostly found in men than women (4:1).¹⁴ This was related to differences in hormone

production. From a study in autistic person ranging from 6-20 years old, it was found that men produce more testosterone hormone while women produce more estrogen hormones. Both hormones have the opposite function of a brain regulating gene called alpha retinoic acid related orphan receptor or RORA. The testosterone hormone can inhibit the performance of RORA while estrogen increases the work of RORA. If RORA's work is hampered, there will be brain coordination problems, for example, a gene should have the duty to protect nerve cells from stress and inflammation; meanwhile, if the performance is hampered, the cell cannot work properly.¹⁵

Periodontal status in autistic children examined using the CPITN index showed that 44% of autistic children had problems in their periodontal tissue. A total of 19 children from 34 total research subjects of autistic children had healthy periodontal tissue conditions, so that the periodontal treatment needs of autistic children in this study also amounted to a small number, i.e., 44%, which required an increase in oral hygiene and professional scaling.

The results of this study showed that the majority of independent income of mothers was in the range of 1-3 million rupiahs, i.e., 24 people. This is in accordance with the research conducted by Duncan and Bonner in 2014, stating that a person's ability to pay for dental care for dental insurance coverage is directly related to the individual's income. High income individuals have a greater chance of receiving better dental care. ¹⁶ Income received by mothers can be an addition to families to improve socio-economic status. Families with high socio-economic status will find it easier to obtain health services. Most of the samples in this study came from parents who had high socio-economic status, so they had a greater chance of getting health services in achieving better dental health. ¹⁷

Furthermore, the profession of the mother is also influential. Of the total, 47% of the mothers of autistic children in this study did not have a job or were housewives, so they had more time to pay attention to maintaining the dental health of their children considering each autistic child has limitations in maintaining his/her own dental health and is very dependent to parents especially the mother. This is because parents are role models for their children and are decision makers. Parental decisions are influenced by their attitudes which reflect children's oral health. If the mother's behavior regarding oral and dental health is good, her child's behavior will also be good.¹⁷

All respondents had a high level of knowledge, i.e., 100%. This was consistent with the research conducted by Susi, Bachtiar and Azmi in 2012, stating that there was a relationship between the level of knowledge of parents about dental and oral health with the behavior of maintaining dental health in children. Majority of respondents, where 79.41% of them had college educatio, while the rest of the respondents who had primary education (SD/SMP/SMA) only consisted of 20.58%. Education can affect individual

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health status. The higher the level of education of a person, the easier it is to receive information. ¹⁹ Someone who has a higher education will have better knowledge in maintaining and caring for his teeth. ¹⁶

A total of 91.1% respondents had a good attitude in maintaining the dental health of their children. This was consistent with the research conducted by Oktarina in 2016, stating that there was a correlation between the level attitudes of parents about dental and oral health with the behavior of maintaining dental health of their children. 19 Education will enhance information and influence the development of individual attitude towards newly introduced values.¹⁹ According to Notoatmodjo (2007), attitudes are the readiness of individuals to act according to their feelings and thoughts based on the values believed. So that attitude can be learned, instead of taken from birth; it is not settled, it can change. Attitude is the beginning of behavior that affects individual actions. This can be influenced by parents' initiative in preventing and promoting dental health problems.²⁰ The higher the initiative ofmparents in terms of maintaining health, the greater the action that will be formed and the healthier the periodontal tissue the child will be.

The results of this study in the aspect of action showed that 91.1% of respondents had good actions in maintaining the dental and oral health. This was consistent with the research conducted by Nurjannah in 2016 stating that there was a correlation between actions with the level of dental and oral hygiene. This is due to the level of full awareness of respondents regarding dental and oral health which has an impact on the hygiene status of their teeth and mouth. The higher level of the mother awareness, the more actions produced by the mother will be so that the child's optimal dental and oral health can be achieved.

After analyzing the data, this study showed that there was no significant relationship between the mother's behavior and the periodontal status and periodontal treatment needs in autistic children (p>0.05) in aspects of knowledge, attitudes, and actions. This is consistent with the study of Oktarina, Tumaji and Roosihermiatie in 2016 stating that there was no significant relationship between mother's behavior (knowledge, attitudes, and actions) with children's oral and dental health. 19 This can be caused by knowledge, attitudes, and actions which are not being the only factors that influence a person's behavior. In Oktarina et al's research, (2016), they noted Blum's theory which states that the health status of a person's mouth and society is influenced by four important factors, namely heredity, environment (physical and cultural), behavior, and health services. Mother's parenting also affects the behavior of mothers in caring for and maintaining the dental health of children. In this study, it was shown that the health of the periodontal tissues of autistic children tended to be healthy so that they did not require large maintenance needs.19

In this study, 44.1% of parents of autistic children used Indonesian's national health insurance and social security

(BPJS). Besides mother's income and profession, health insurance also has a significant impact on dental care. The scope of dental insurance services is an important factor in deciding to seek dental care. The use of dental insurance can reduce or even eliminate the cost of dental and oral care which causes high demand for dental and oral health care.²² The scope of dental and oral services guaranteed by BPJS Health includes: extraction of primary teeth (topical, infiltration), permanent tooth extraction without complications, teeth scaling (1x a year), etc.²³ Ease of access to dental health service facilities provided can encourage mothers to take their children to the dentist in terms of care for the child's teeth.

Special education of AGCA Centre located in Surabaya, East Java is a school for children who have special needs, such as autistic children, cerebral palsy, etc. AGCA Centre has an accreditation which is included in the superior schools and is located in elite high socioeconomic locations. The facilities and services provided are good for the costs required are not small so that not all autistic children can attend the AGCA Centre; only parents who have high socioeconomic status can send their autistic children to AGCA. This can lead to uniformity or homogeneous data so that there is no big difference in the periodontal status of autistic children, so the majority of autistic children have a healthy periodontal tissue condition with little maintenance needs. In addition, environmental factors for autistic children can also affect the health of the periodontal tissue rather than only from the mother, most of the time the child is used to going to the AGCA Centre daily. Information about maintaining the dental health of children can also come from schools, teachers, and the internet from the gadgets being played by children.

Oral and dental health of autistic children can be affected due to limited understanding of the importance of maintaining oral health, difficulties in communicating oral health needs, consumption of anticonvulsant drugs that affect gingival health, and fear of oral health procedures. In addition, autistic children tend to be hyperactive and have uncontrolled pulling of muscles. Autistic children also have low levels of salivary secretions which can also lead to low oral hygiene.²⁴

In addition, the difficulty in processing sensory stimuli is something that is found in many people with autism. Research by Cermak shows that the children's being more receptive to sensory responses is an important factor that influences their response to receive dental and oral care. 24 Sensory stimuli that can be found in dental practice, such as bright neon lights from the dental chair, touches in and around the oral cavity in dental care actions, the atmosphere and smell of oral care products in the practice of dentists or hospitals, have the potential negative impact in these children, making it difficult for dentists to provide care. This can cause an increase in stress and anxiety of autistic children, and cause uncooperative behavior in receiving dental and oral care. 25

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Autistic children also tend to have self-injurious behaviors (SIB), which are located in the head-neck area, which can include head banging, face tapping, and gingival picking. In addition, they sometimes also have unusual parafunctional habits including bruxism, stretching their tongue forward, chewing things carelessly like gravel, cigarette butts, or pens. Children with autism also tend to have a preference for sweet and cariogenic foods. This can cause serious problems in the oral and dental health of children with autism.²⁵ This is in contrast to the results obtained in this study that most autistic children have healthy periodontal tissue. This can be caused by the level of awareness from mothers of autistic children in maintaining their children's dental and oral health. School environment also supports children so that they can always maintain and care for the oral health of children. This study examined the mother knowledge, attitudes, and actions to maintain their children's dental and oral health. Further study is necessary to examine the correlation between mothers' educational background and socio-economic status to obtain deeper information with Periodontal Status and Periodontal Treatment Needs in Autistic Children.

CONCLUSION

The results of research showed that there was no significant correlation between knowledge, attitudes, and actions of mothers in maintaining dental and oral health and the periodontal status and periodontal treatment needs in autistic children.

Statement of Authorship

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

Author Disclosure

All authors declared no conflict of interest.

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