Age and Education Distribution Patterns of Working Mothers on Dental Health Behavior in Preschool Children in Mid-Class Society

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Age and Education Distribution Patterns of Working Mothers on Dental Health Behavior in Preschool Children in Mid-Class Society

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ABSTRACT

Background: Dental caries is a common disease in children which if left untreated, it may affect weight, growth and the quality of life in childhood. The behavior of parents, especially mothers, affects the children's oral health, because mothers aside of being the decision maker for the children, they also have careers.

Objective: This study aimed to analyze the relationship between age and education of working mothers on dental health behaviors in pre-schooled children aged 5-6 years.

Method: This was a cross-sectional study, involving working mothers who have children aged 5-6 years in Banjarbaru, South Kalimantan. The number of respondents was 101 working caregivers, that was chosen by means of a cluster random sampling technique. The data were obtained through interview and questionnaire. The results were analyzed statistically using logistic regression test with a significance value of p<0.05.

Results: There was no significant relationship between age and education of working mothers on dental health behaviors in preschoolers.

Conclusion: The age and education of working mothers are not related to dental health behavior in preschool children in Banjarbaru South Kalimantan.

Keywords: age, education, mother behavior

Introduction

The World Health Organization (WHO) stated that 60-90% of school children worldwide suffered from caries¹, a common disease which if untreated, it may affect weight, growth, and quality of life, especially in childhood². Basic Health Research in 2013 stated that dental and oral health in Indonesia remained quiet apprehensive. The high prevalence of dental and

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oral health problems was found in South Kalimantan Province (36.1%), making it the second highest after South Sulawesi 55.2%)3. Previous research, analyzing the relationship of dental caries with the quality of life in school children aged 5-7 years in Landasan Ulin Sub-district, Banjarbaru, South Kalimantan proved the average of primary tooth suffering dental caries as many as 9 teeth per children4. Parents have main role in providing information and encouraging a healthy living. The knowledge, beliefs, and attitudes of parents affect oral health, eating habits and the health behaviors of children5. Parental behavior, especially mothers, affects the oral health of children because mother acts as a primary caregiver and the ultimate decision maker^{6,7}socioeconomic status, sal health behaviors of children and their parents. Oral health status of children was examined. The parent and their children oral health relationship were tested using regression and correlation analysis. Results. About 222 parents and

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children participated in the study. There was a significant relationship between history of having dental problems in parents and dmft index in their children (P = 0.01.

The Central Bureau of Statistics in Banjarbaru, South Kalimantan, stated that in 2015, 62.45% of women worked as a bureaucrat. Women working in the public sphere for economic and social motivation; to increase family income and not depend on husband⁸, while the social motivation are education level, free time, seeking for experience and self-actualization⁹. The socio-economic status of the family greatly affects the family's need compliance to achieve a prosperous standard of living and maximum health¹⁰.

Working women in Banjarbaru are classified to middle-class society for having a fixed income and well educated. Middle-class society is a social class with occupation and fixed income, modern society which is economically prosperous, and well-educated and considered as an important person by the surrounding society¹¹. Health behavior is formed by three main factors; predisposing factors, namely knowledge, attitude, belief, values, age, education, occupation, and family economic status. The second are supporting factors are the physical environment, health facilities and infrastructure and health program. The last is supporting factor of the attitudes and actions of health workers or others who become role models¹².

The purpose of this study was to analyze the relationship between age and education of working mothers on the dental health behavior of preschool children aged 5-6 years in Banjarbaru, South Kalimantan.

Method

The study was approved by the Medicine Health Research Ethical Clearance Commission (016/HRECC. FODM/III/2018). Each respondent who participated in

the study had consented to voluntary informed consent. Respondents in this study were educated working mothers aged 21-40 years.

Research Design: This cross-sectional study was conducted on 101 working mothers in Banjarbaru. Sampling was done by cluster random sampling. Sample criteria were mothers who worked and had preschool children aged 5-6 years. Data was obtained using questionnaires. Instrument behave a consisted of 6 statements that contained the behavior of mothers in the dental health of preschool children aged 5-6 years. Each answer was given with a score of 0-1.

Statistical Analysis: Data were analyzed using SPSS 16 for Windows. Nonparametric Descriptive Statistics used logistic regression with the level of significance value was <0.05.

Results

There were two independent variables, age and education, and one dependent variable, the behavior of the dental health of the mother. All variables can be seen in Table 1. There were 33 (32.7%) working mothers aged 21-30, 68 persons with age 31-40, 22 persons (21.8%) with low education, and 79 persons (78.2%) with high education. Analysis using SPSS version 16 Software for Windows showed that there was no significant relationship between educated working mothers' age on dental health behaviors of a preschooler. The results can be seen in Table 2.

Table 1: Distribution of age and education of working mothers in Banjarbaru

Variables	Category	Total	Percentage
Age of	21-30 years	33	32.7
caregiver	31-40 years	68	67.3
Education of	Low	22	21.8
caregiver	High	79	78.2
Total		101	100

Table 2: Cross-tabulation of the relationship between age and education of working mothers on dental health behavior in preschool children aged 5-6 years in Banjarbaru

Mother behavior			Age				Education		
			31-40	OR	C:a	Low	High	OR	C: -
		%	%	OK	Sig.	%	%	OK	Sig.
Telling children to clean their teeth	Bad	78.8	77.9	0.963	0.945	81.8	77.2	1.348	0.647
after meal	Good	21.2	22.1			18.2	22.8		
Having their children clean their	Bad	60.6	51.5	1.297	0.574	63.6	51.9	1.647	0.468
teeth before going to bed at night	Good	39.4	48.5			36.4	48.1		

Conted...

Cleaning teeth every morning after	Bad	48.5	39.7	1.313	0.550	50	40.5	1.320	0.591
breakfast and night before bed	Good	51.5	60.3	1.313		50	59.5		
Allowing children to eat snacks	Bad	36.4	42.4	0.802	0.635	36.4	41.8	0.869	0.791
every day	Good	63.6	57.4			63.6	58.2		
Telling children to use toothbrushes	Bad	9.1	17.6	0.75	0.684	0	19	0.000	0.998
and toothpaste every day	Good	90.9	82.4			100	81		
Having their children rinse after	Bad	78.8	60.3	2.678	0.063	68.2	65.8	0.758	0.625
eating	Good	21.2	39.7			31.8	34.3	0.738	0.023

Mother's behavior in telling children to clean teeth after every meal had no significant relationship with age (p = 0.945, OR = 0.963) and education (p = 0.647, OR =1,348). At the age of 21-30 years old, mother's behavior on dental health was mostly bad as much as 78.8% with low level of education equal to 81.8%, whereas at age 31-40 years old, mother's behavior on dental health was mostly bad as much as 77.9% with high education level of 77.2%. Mother's behavior in telling children to clean teeth before bedtime had no significant relationship with age (p = 0.574, OR = 1.294) and education (= 0.468, OR = 1.467). At the age of 21-30 years old mother's behavior toward dental health was mostly bad as much 60,6% with low education level equal to 63.6%, whereas at age 31-40 years old, mother's behavior to the dental health of child was mostly bad as much 51,5% with the higher education level 551.9%. The behavior of mothers to clean the teeth every morning after breakfast and the night before bed had no significant relationship with age (p = 0.55, OR = 1.313) and education (p = 0.591, OR =1.32). At the age of 21-30 years old, mother's behavior toward dental health of children was mostly good as much as 51.5% with low education level of 50%, whereas, at age 31-40 year, majority of mother behavior to dental health of child was mostly good as much as 60.3% with education level high of 59.5%. The behavior of mothers who let children eat a snack every day had no significant relationship with age (p = 0.635, OR = 0.802) and education (p = 0.869, OR = 0.998). At the age of 21-30 years old, mother's behavior toward dental health of children was mostly good as much as 63.6% with low education level equal to 63.6%, whereas at age 31-40 years old, mother's behavior to dental health of child was mostly good as much as 57,4% with high education level of 58.2%. Mother's behavior in telling children to use toothbrush and toothpaste every day had no significant relationship with age (p = 0.684, OR = 0.75) and education (p = 0.999, OR = 0.000). At the age of 21-

30 years old, mother's behavior toward dental health of children was mostly good as much as 90.9%, although they had low education, Whereas, at age 31-40 years old, mother's behavior to dental health of children was mostly good as much as 81% with high education level equal to 58.2%. The mother's behavior of having a mouthwash after eating had no significant relationship with age (p = 0.063, OR = 2.676) and Education (p = 0.625, OR = 0.758). At the age of 21-30 years old, mother's behavior toward dental health was mostly bad as much as 78.8% with a low level of education equal to 68.2%. Whereas, at age 31-40 years old, mother's behavior to the dental health of children was mostly good as much as 60.3% with the high education level of 65.8%.

Discussion

According to the literature, behavior building is affected by attitude and knowledge, which can be gained from both formal and non-formal education¹³. Previous studies stated that education level reflect knowledge and skills to make health behavior choices14,15. The mothers' dental health behavior is an important factor in building the children's dental health behavior^{6,14}socioeconomic gatus, oral health behaviors of children and their parents. Oral health status of children was examined. The parent and their children oral health relationship were tested using regression and correlation analysis. Results. About 222 prents and children participated in the study. There was a significant relationship between history of having dental problems in parents and dmft index in their children (P = 0.01. Education may have various impact on individual, depend on personality, social environment, culture, and perception. Besides, education also increase the career opportunity. The working environment in public sector has high pressure that may induce stress, and affecting a person behavior, hence, behavior is mos influenced by personality of a person than the level of

education ^{16,17}. The result is in accordance with previous research which showed that the level of education does not affect the working mother's behavior toward the dental health of preschool children aged 5-6 years. Education is a program to develop personality and abilities that last a lifetime. The higher education, the easier the person to receive information. The more information that comes in, the more the knowledge gained. Knowledge is very close to education, so it is expected that someone with higher education will have better knowledge, including health care^{12,18}.

Table 2 showed that the mother's behavior toward pald's dental hygiene is not correlated to education. Lack of knowledge and access to information, causing a person to have limited knowledge about the hazard of unhealthy behavior so less motivation to adopt healthy behavior¹⁶. Learning process may enhance professional skills and specific knowledge that are still relevant to general knowledge 19. Thucation plays an important role in caries prevention. Parents with higher education had more concern to the oral health of children, that make them have a better oral health behavior^{20,21}. Behavior is the biggest factor affecting one's health. Developmental psychology states that the age of 18-40 years is an early adulthood. As getting older, the maturity and strength of a person will be more mature intrinking and work²². Danang and Irdawati stated that age is one of the factors that influence mothers to be able to run the role of optimal care. The age of the mother or the parent who has reached maturity in thinking and being able to properly educate and nurture the child will be able to reach the stage of development according to his time^{23,24}.

Working mother's behavior towards spending more time at work than at home. This causes the mother to have little time with the children so that the oral hygiene practice of children is sometimes neglected because of the activities. Based on the data obtained, it was shown that the mother who worked in the city of Banjarbaru, South Kalimantan aged 21-40 years old had high education. Supposedly, with age, a person has better knowledge about dental and mouth health, so that the practice of oral hygiene is also good. However, in this study different things were obtained that the age and yel of education had no relationship with the behavior of working mothers on the dental health behavior of preschool children aged 5-6 years in Banjarbaru, South Kalimantan. Working mothers have high stress because

of their work 16,17. Exhaustion aft work tends to make mothers do not care about the dental and oral health of children. This is in accordance with the results of a study that states that good knowledge was not always directly proportional to the pattern of parenting^{6,24} ²⁶socioeconomic sta 51s, oral health behaviors of children and their parents. Oral health status of children was examined. The parent and their children oral health relationship were tested using regression and correlation analysis. Results. About 222 parents and children participated in the study. There was a significant relationship between history of having dental problems in parents and dmft index in their children (P = 0.01, meaning that although the mother has a good knowledge about oral health, it does not necessarily make her have a good attitude to apply the knowledge.

Conclusion

Age and education of working mothers do not affect dental health behaviors in preschool children aged 5-6 years in healthcare prevention and maintenance efforts. However, the personality of the caregiver affects this behavior. Caregivers who work tend to have a high level of stress so that after coming home from work, the behavior that appears is the behavior as it is, meaning not so concerned about the dental health of children.

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