



# Factors Related To Dental and Oral Health In Elementary School Students In The Working Area Of The Dermayu Community Health Center, Seluma Regency, In 2025

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## Abstract

The emergence of dental and oral health problems is a risk factor for children's behavior in the lack of knowledge about maintaining oral health. Objective: To determine the factors that influence dental and oral health in elementary school students in the Dermayu Health Center Work Area, Seluma Regency in 2025. The research method used is the study was conducted from April to May 2025. The type of research is a quantitative method with a cross-sectional design. The accessible population in the study were all students of State Elementary School 55, State Elementary School 81, and State Elementary School 69 in Selama Regency with 82 samples using the total sampling technique. Univariate data analysis is presented in the form of frequency distribution and bivariate analysis using the chi-square test, data processing using the computerized SPSS program version IBM 25.0. The research results used is knowledge about dental and oral health is mostly lacking (53.7%), maintenance behavior about dental and oral health is mostly lacking (59.8%), the role of parents is lacking (51.2%), the role of health center officers is good (61.0%), there is a relationship between knowledge and maintenance behavior about dental and oral health ( $p = 0.019$ ), there is a relationship between the role of parents and maintenance behavior about dental and oral health ( $p = 0.004$ ), there is a relationship between the role of health center officers and maintenance behavior about dental and oral health ( $p = 0.003$ ) and the variable that has the strongest influence on maintenance behavior about dental and oral health is knowledge. The research conclusion used is there is a relationship between knowledge and maintenance behavior about dental and oral health in students, there is a relationship between the role of parents and

maintenance behavior about dental and oral health and there is a relationship between the role of health center officers and maintenance behavior about dental and oral health in elementary school students in the Dermayu Health Center Work Area, Seluma Regency in 2025 and the variable that has the strongest influence on maintenance behavior about dental and oral health is knowledge

### **Keywords**

Dental and Oral Health Maintenance, Knowledge, Role Of Parents

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### **Introduction**

Children's health in general is the most important thing for society but seldom become priority main teeth And mouth own Other functions include improving the health of body organs, as a source of essential nutrients for the skin and digestive system. The term "healthy mouth" refers to a condition free from infection, bad breath, gum disease, tooth decay, throat cancer, sarcoma, and other symptoms. (Wills, 2023). According to WHO (World Health Organization) and The FDI The Federation Dentaire Internationale, citing the Global Goals for Health 2020, states that dental and oral health issues significantly impact a nation's health. Teeth and mouth are essential parts of the body for every human being. to consume food and drink to meet human needs. Dental caries in European, American, and Asian countries, including In Indonesia, the prevalence of dental caries reaches 80-90% of children under 18 years of age (Rumae and Idris, 2023). WHO (World Health Organization) And The FDI (Federation The International Dental Association (Dentaire Internationale) states that the severity of dental caries is categorized as 0.0-1.1 (very low), 1.2-2.6 (low), 2.7-4.4 (high), and more than 6.6 (very high). (Ryzanur et al. 2022). Decay Missing Filling Teeth (DMFT) is an indicator used to assess caries in a population. (Amalia et al. 2024). The health of children and the elderly is a serious problem in Indonesia, as seen from the prevalence of DMFT in the Indonesian population of 57.6 percent, with a National DMF-T index of 7.1 percent (Risksdas, 2018). Based on the 2023 Indonesian Health Survey (SKI), the prevalence of DMFT in the Indonesian population is 57.6 percent, with a National DMF-T index of 7.1 percent (Risksdas, 2018). Indonesian caries experienced a decline from year 2018 to 2023 will be 56.9% with index DMF-T as big as 5.4 Which including high category. (Istiqomah, et al. 2024). Efforts to promote the health of children and adolescents begin at the elementary school level. This is because The prevalence of dental and oral diseases is increasing. (Putri, et al. 2020). Caries is One of the diseases suffered by children is around 90% (Parmasari et al. 2022). This is because the level of knowledge of the Indonesian public about the need to maintain oral health, namely brushing teeth, is still very low (Fankari and Krisyudhanti, 2023). In general, behavioral problems in elementary school students as a result of the low quality of education and knowledge in combating dental and oral hygiene cases. It is not known or understood by children aged 6–12 years how to properly promote healthy growth of teeth and mouth. Dental and oral hygiene is carried out using the correct technique to prevent infection of the teeth. This situation can progress to cavities (caries) if action is not taken immediately. (Aqidatunisa, et al. 2022). The emergence of health problems in the teeth and mouth is a risk factor for children's behavior in Lack of knowledge about oral health care (Pariati and Jumriani, 2020). However, this theory, developed by Green and Notoatmojo, states that when individuals have a higher level of understanding, their interest in oral health will improve and increase, or

vice versa (Sholekhah et al., 2023). Chairunnisa, et al. 2023 in their research concluded that the level of knowledge about maintaining dental and oral health in the medium category and severity of dental caries according to WHO included in the low category (1.2-2.6). In addition, in the research of Nurhalisah et al. 2023, it can be concluded that the knowledge of class students VI related method and frequency of brushing teeth including category not enough. The Ministry of Health (2023) stated that 75% of Indonesians suffer from dental caries. The highest prevalence of caries is found in Asia and Latin America due to poor oral hygiene in children (Dewi et al. 2024). Riskesdas 2018 stated that in Bengkulu Province, 92.6% of children under 12 years old experience dental caries. Data from the Bengkulu City Health Office in 2018 showed that the highest proportion of children with dental caries was in the 5-9 age group (Hartiana et al. 2023). According to data from the Bengkulu Provincial Health Office, in 2023, the incidence of dental and oral problems in Bengkulu Province reached 51.5%. The incidence of dental caries in Bengkulu Province reached 40.6%, with the highest number of cases occurring in the 5-9 age group. (SKI, 2023). Health Office Data Province Bengkulu Year 2018 until 2023 States that cases of dental caries are relatively high in the mixed dentition age group. Permanent first molars erupt at 6-7 years of age (Tias et al. 2024). First molars erupt earlier than other molars. These molars are particularly susceptible to tooth decay, as their crowns are still forming at this age. Parents often assume that the first molars are still being replaced, so they don't pay much attention to them (Nurliani et al. 2024). Dermayu Community Health Center, Seluma Regency, received case report data caries tooth in poly tooth on year 2022 as much as 85 person, on year 2023 as many as 98 people and in 2024 A total of 119 people. This indicates that dental caries cases at the Dermayu Community Health Center dental clinic are increasing annually. Dental caries is a serious issue that requires immediate treatment by healthcare professionals and support from the surrounding community, such as teachers and parents. Based on activity data report, the results showed that the Dermayu Health Center health workers No Conducting School Dental Health Efforts (UKGS) activities in elementary schools within the Dermayu Community Health Center's work area. These activities include school counseling, comprehensive dental and oral examinations, as well as promoting oral health in schools. This activity was supposed to be a collaboration with the School Health Unit (UKS), but the Dermayu Community Health Center stated that there was no longer a person responsible for the program. In 2022, the UKGS (General Dental Health Check) program was conducted but was discontinued due to a lack of government funding. From 2022 to date, Dermayu Community Health Center health workers have only conducted oral hygiene checks during screenings held twice a year. These tests were conducted by health workers who were not dental professionals, resulting in inconsistent results.

## Literature Review

### Definition of Knowledge

Knowledge is a fundamental aspect of human nature, as it is acquired through "thinking." Thinking (natiqiyah) is the differentia (fashl) that separates humans from their fellow human beings. The knowledge a person possesses is a sign of progress. human. That is why, when human knowledge tested, it is not uncommon for people to try to analyze, find the source of the problem, and then find a picture according to (Safrudin and Ahida, 2022). Knowledge about dental and oral health is crucial for supporting healthy oral behavior. Increasing one's knowledge can impact their capacity to absorb and respond to information. This knowledge is essential for

dental development and growth. Knowledge can be acquired naturally or through planned educational processes (Meidina et al. 2023).

### **Definition Behavior**

According to Darwin in Mustafa (2012:144), behavior is a series of human instincts to respond to the environment in the form of organized actions. Meanwhile, according to Skinner in Rachmawati (2019:19), behavior is the result of a stimulus. or stimuli in the form of a person's response or reaction. (Mahendra, and Tefa. 2022). Behaviorist say that behavior man can learned and can be changed or replaced by new behaviors. These behaviors can be learned through experience and interaction with the external environment. the can observed in a way direct and No direct and this behavior has an important role in influencing dental and oral health (Salfiyadi, et al. 2024).

### **Understanding Health Tooth And Mouth**

According to the Indonesian Minister of Health Regulation Number 89 of 2015, Dental and Oral Health is A healthy state of the hard and soft tissues of the teeth and the elements associated with the oral cavity. This allows a person to eat, speak, and interact socially without experiencing dysfunction, aesthetic disturbances, and discomfort due to disease, deviations from dental occlusion, and tooth loss, enabling them to live socially and economically productive lives. Good physical health is influenced by dental and oral health (Kencana and Ratih, 2023).

### **Methods**

The data analysis technique used in this study is quantitative data analysis which includes the following:

#### **Univariate analysis**

Univariate analysis describes the frequency distribution of each independent variable and dependent variable so that a description of the research variables can be obtained using the formula according to Tambun et al. (2020), namely:

Information :

P = Presentation Which want to reach F = Frequency

N = Amount frequency most individual 100% = Constant value

#### **Bivariate Analysis**

Bivariate analysis aims to determine the relationship between independent variables and dependent variables, namely the relationship between the level of knowledge, behavior, role of parents and the role of health workers in dental and oral care. on dental and oral health at Public Elementary School 55, Public Elementary School 81, and Public Elementary School 69, Seluma Regency, Bengkulu City in 2025 using the Chi-square test.

## Analysis Multivariate

Multivariate analysis is used to examine the factors that influence several independent variables on the dependent variable. This analysis can simultaneously determine the relationship between knowledge levels, behavior, the role of parents, and the role of health workers in dental and oral care. to the factors that affect dental and oral health in Public Elementary School 55, Public Elementary School 81, and Public Elementary School 69, Seluma Regency, Bengkulu City in 2025.

## Results and Discussions

### Univariate Analysis

The results of the study obtained the frequency distribution of knowledge about dental and oral health in elementary school students in the Dermayu Health Center Area, Seluma Regency in 2025 which can be described as follows:

**Table 1.** Distribution Frequency Knowledge About Health Tooth And Mouth In Elementary School Students In The Health Center Area Dermayu Regency Seluma Year 2025

Knowledge	F	%
Good	38	46.3
Not enough	44	53.7
<b>Total</b>	<b>82</b>	<b>100.0</b>

Source : Data Processed (2025)

Based on table 3, it can be concluded that of the 82 respondents, the majority of respondents had insufficient knowledge about dental and oral health, namely 44 people (53.7%). The results of the study obtained the frequency distribution of dental and oral health maintenance behavior in elementary school students in the Dermayu Health Center area, Seluma Regency in 2025 which can be described as follows:

**Table 2.** Distribution Frequency Behavior Maintenance About Health Teeth and Mouth in Elementary School Students in the Community Health Center Area Dermayu Regency Seluma Year 2025

Behavior	f	%
Good	33	40.2
Not enough	49	59.8
<b>Total</b>	<b>82</b>	<b>100.0</b>

Source : Data Processed (2025)

The results of the study obtained a frequency distribution of the role of parents in knowledge and maintenance of dental and oral health in elementary school students. in Region Community Health Center Dermayu Regency For years 2025 can described as follows:

**Table 3.** Distribution Frequency Role Person Old To Knowledge And Maintenance of Dental and Oral Health in Student School Base In Region Community Health Center Seluma Regency's 2025 Gift

Role Person Old	<i>f</i>	%
Good	40	48.8
Not enough	42	51.2
<b>Total</b>	<b>82</b>	<b>100.0</b>

Source : Data Processed (2025)

Based on table 5, it can be concluded that of the 82 respondents, the majority of parents' roles in knowledge and maintenance of dental and oral health were lacking, namely 42 people (51.2%).

### The Relationship Between Knowledge and Behavior Regarding Dental and Oral Health Maintenance

The results of the study showed a relationship between knowledge and behavior regarding dental and oral health maintenance in elementary school students in the Dermayu Health Center Work Area, Seluma Regency in 2025, which can be described as follows:

**Table 4 Connection Between Knowledge With Behavior Dental and Oral Health Maintenance for Elementary School Students in the Working Area of the Dermayu Community Health Center, Seluma Regency 2025**

Knowledge	Behavior Maintenance				P value		
	Good		Less			Total	
	<i>F</i>	%	<i>f</i>	%	<i>f</i>	%	
Baik	21	55,3	17	44,7	38	100,0	0,019
Kurang	12	27,3	32	72,7	44	100,0	
<b>Total</b>	<b>33</b>	<b>40,2</b>	<b>49</b>	<b>59,8</b>	<b>82</b>	<b>100,0</b>	

Source : Data Processed (2025)

### Multivariate Analysis

Multivariate analysis is used to see the relationship between the dependent variable in this study, namely maintenance behavior, and the independent variables (knowledge, the role of parents and the role of health center officers) so that the magnitude of the relationship between the dependent variable and the independent variable can be estimated, because this study uses a categorical scale, the multivariate analysis that will be used is *logistic regression*.

In this multivariate *logistic regression analysis*, the researchers used the *backward method*. All variables with a p-value <0.05 were included and automatically ranked according to the strength of their influence on the dependent variable. Furthermore, variables that had no influence on the dependent variable were automatically excluded.

In this study, based on the results of the bivariate analysis, the variables included (p<0.05) were knowledge, parental role, and the role of community health center staff. After data was entered *backward*, it was automatically sorted according to the strength of its influence on the independent variables. Furthermore, risk variables that had no effect were automatically removed from the multivariate analysis.

**Table 5.** Variables Which Most Influential To Behavior Dental and Oral Health Maintenance in the Region Work Community Health Center Dermayu Seluma Regency in 2025

Variables	B	SE	$\chi^2$	Sig.	p(B)	Exp. (B)
Knowledge	1,859	0.623	1.003	0.18	6,4	
Step 1 Role Person	1,784	0.637	1.005	0.55	5,9	
Role Health Center Officer	1,230	0.593	1.038	0.21	3,4	

Source : Data Processed (2025)

Based on table 10, it is known that influencing maintenance behavior, a significant value of knowledge was obtained of 0.003, meaning it is smaller than the p value (<0.05). Then, when entered into the OR change, a value of 64.18% (>10%) was obtained, meaning that knowledge has a significant effect on maintenance behavior. Then, the significant value of the role of parents was 0.005, meaning it is smaller than the p value. (<0.05) then entered into the OR change obtained a value of 59.55% (>10%) meaning that the role of parents has a significant effect on maintenance behavior. And the significant value of the role of health center officers is 0.038 meaning it is smaller than the p value (<0.05) then entered into the OR change obtained a value of 34.21% (>10%) meaning that the role of health center officers has a significant effect on maintenance behavior.

### Conclusion

1. Knowledge about health tooth and mouth most is not enough namely 44 people (53.7%). The most frequent behavior regarding dental and oral health maintenance was poor, namely 49 people (59.8%). The most frequent parental role in knowledge and maintenance of dental and oral health was poor, namely 42 people (51.2%). The most frequent role of community health center officers in dental and oral health maintenance was good, namely 50 people (61.0%).
2. There is a relationship between knowledge and behavior regarding dental and oral health maintenance in elementary school students in the Dermayu Community Health Center Working Area, Seluma Regency in 2025 (p=0.019).
3. There is a relationship between the role of parents and maintenance behavior regarding dental and oral health in elementary school students in the Dermayu Health Center Working Area, Seluma Regency in 2025 (p=0.004).
4. There is a relationship between the role of community health center officers and maintenance behavior regarding dental and oral health in elementary school students in the Dermayu Community Health Center Working Area, Seluma Regency in 2025 (p=0.003).
5. The variable that has the strongest influence on behavior regarding dental and oral health maintenance is knowledge.

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