Description Of Primary School Student Behavior Post The 21 Days Tooth Brushing Program (Survey Of Students At Sdn Bangetayu Wetan 01 Semarang City)

Salsabila Awalia Putri*, Musri Amurwaningsih**, Arina Shafia***

* Dentist Education Program, Faculty of Dentistry, Sultan Agung Islamic University

** Department of Public Dental Health, Faculty of Dentistry, Sultan Agung Islamic University *** Department of Oral Biology, Faculty of Dentistry, Sultan Agung Islamic University

Correspondence: salsabilaawaliaputri87@gmail.com

Received 3 August 2024; Accepted 30 September 2024; Published online 30 September 2024

Keywords:

21-day tooth brushing program; caries; dental and oral health maintenance behavior

ABSTRACT

Background: The high incidence of dental caries in elementary school-aged children was a public health problem. One effort to reduce the high rate of dental caries was through a 21-day tooth brushing program. It was hoped that the behavior would form permanently and become a habit. The purpose is to find out the description of elementary school students' behavior after the 21day tooth brushing program.

Method: The type of research was descriptive observational. The population in this study was elementary school students at SDN Bangetayu Wetan 01 Semarang City, totaling 386 students from grades 1 to 6. The sampling technique used was a total sampling technique which was in accordance with research inclusion and exclusion criteria, resulting in 105 samples. Data were subjected to descriptive statistical analysis.

Result: The study showed that changes in dental and oral health maintenance behavior after the 21-day tooth brushing intervention were mostly in the sufficient category (49.5%). The majority of students' 21-day tooth brushing practice was in the routine category (82.9%).

Conclusion: The most common characteristics of respondents were female (62.9%) and 10 years old (24.8%). Through the 21-day tooth brushing program, the students of SDN Bangetayu Wetan 01 Semarang City formed dental and oral health maintenance behavior.

Copyright ©2022 National Research and Innovation Agency. This is an open access article under the CC BY-SA license (https://creativecommons.org/licenses/by-sa/4.0/).

DOI: http://dx.doi.org/10.30659/medali.6.2.97-102

2460-4119 / 2354-5992 ©2024 National Research and Innovation Agency

This is an open access article under the CC BY-SA license (https://creativecommons.org/licenses/by-sa/4.0/)

How to Cite: Putri et al. Description Of Primary School Student Behavior Post The 21 Days Tooth Brushing Program (Survey Of Students At Sdn Bangetayu Wetan 01 Semarang City). MEDALI Jurnal: Media Dental Intelektual, v.6, n.2, p.97-102, September 2024.

INTRODUCTION

Caring for oral health has important similarities with maintaining the health of other body organs, if the mouth is in healthy condition it will become the body's defense barrier against viruses and bacteria (1). Dental caries is a common oral cavity disease, especially in children. National Dental Health Survey in 2015-2016 indicate 73.9 percent of children aged 6 to 12 years in Indonesia have untreated caries (2). Prevention of caries can be achieved by brushing teeth, because plaque and food debris are the main causes of caries (3).

Teaching children to brush their teeth properly from an early age is an investment in their future health (4). Research shows that new habits, including brushing your teeth, can be formed in 21 days (5). Elementary school age is the ideal time to train children's motor skills, including brushing their teeth (4).

Teachers have an important role in assisting children to maintain oral health. Oral health education provided by teachers is more easily accepted by children because they feel more familiar and comfortable (6). Teachers are also the main pillars in the world of education, playing a role in educating and guiding students (7). Schools can train teachers on oral hygiene methods so they can teach them to students (8).

Dentists need to have teamwork with teachers to develop oral health prevention programs (9). Islam also emphasizes the importance of maintaining oral hygiene through the recommendation of "siwak" or brushing your teeth (10).

Therefore, this study aims to analyze the behavior of elementary school students after a 21-day tooth brushing program and contribute to science in the health sector as well as knowledge for students, teachers, dentists and the community. As for the general and specific objectives of this research, specifically this research aims to determine the characteristics of respondents, including gender and age, as well as monitor the results of elementary school students' tooth brushing activities for 21 days and describe their behavior through the program.

Theoretical benefit of this research is to increase insight, knowledge and literature sources regarding the behavior of elementary school students after the 21 day tooth brushing program. Practically, it is hoped that this research will provide benefits in understanding the behavior of elementary school students after the program. The aim of this research is obtained from the problem that has been formulated, namely how to describe the behavior of elementary school students after the 21 day tooth brushing program.

RESEARCH METHOD

As a quantitative research, this study examined the behavior of elementary school students after a 21-day tooth brushing program. The approach taken is quantitative and descriptive observational methods. The research design used was descriptive with the independent variable namely student behavior after the 21 day tooth brushing program. Population of this research were students at SDN Bangetayu Wetan 01 Semarang City from grades 1 to 6, totaling 140 students. Meanwhile, 105 students were sampled using total sampling techniques. The research instruments used were a 21-day tooth brushing monitoring sheet and a behavioral questionnaire. The validity of this instrument obtained valid and reliable results. This research was conducted at SDN Bangetayu Wetan 01 on April 2024. This research data was analyzed using descriptive statistical tests and descriptive frequency tests using SPSS application.

RESULTS

General description of respondents in this research includes gender, age, elementary school students' tooth brushing activities for 21 days, and attitudes towards the program. Detailed data from the analysis results are in the following table :

Table 1 Characteristics of Re	esearch
Table 1 Characteristics of Re	esearcn

Doo	non	donto
Res	DOLIO	dents

	Amount	
Characteristics	N =	%
	105	
Male	39	37,1%
Female	66	62,9%
	Amount	
Age	N =	%
	105	
8 Years Old	4	3,8%

9 Years Old	19	18,1%
10 Years Old	26	24,8%
11 Years Old	19	18,1%
12 Years Old	15	14,3%
13 Years Old	22	21%
21 Days of	Amount	
Brushing	N =	%
Teeth	105	
Routine	87	82,9%
Unroutine	18	17,1%
Total	105	100%
	Amount	
Behaviour	N =	%
	105	
Bad	8	7,6%
Enough	52	49,5%
Good	45	42,9%
Total	105	100%

Based on Table 1, it can be seen that the majority of research respondents based on gender are female, namely 66 respondents (62.9%). It is also known that the majority of respondents aged 10 years, amounting to 26 students (24.8%), the results of the practice of brushing their teeth for 21 days found that the majority of students at SDN Bangetayu Wetan 01 were in the routine category, 87 (82.9%), health maintenance behavior. teeth and mouth, students at SDN Bangetayu Wetan 01 were dominated by the fair category, 52 (49.5%). So, it can be seen that the minimum value is 49.2 (bad category) and the maximum value is 100.0 (good

category) with an average of 84.908 (fair category) and a standard deviation of 10.2186.

DISCUSSION

This research results indicate the majority of respondents were women, namely 62.9%, while men were 37.1%. Gender Cognitive Dissonance Theory explains that the different characteristics of men and women will influence human behavior and thought patterns, so women pay more attention to dental and oral health than men. This is in line with Ningsih's research which states that girls care more about dental health than boys (11). Majority of respondents to this case study are 10 years old. According to Budioro's theory, basically members of nature called humans have certain behavioral tendencies according to their interests (12). Another research by Himmamie, Adi, and Ratih is that WHO recommends dental and oral health research be conducted on children aged 10 to 12 years (13). This is because children aged 10-12 years have started to cooperate and are able to understand the subject matter well, and according to Sabani children aged 6-10 years prefer to imitate the behavior broadcast on television or from other people (14).

According to Keumala and others, 2022, children aged 11-12 years

respond quickly to the information provided, in other words, the interest in learning and ability to remember children of this age is getting higher (15). Most of the students at SDN Bangetayu Wetan 01 are in the routine category of brushing their teeth, 83.3%. According to Idayanti and Kurniawati's 2019 research, cognitive development in elementary school age children makes them able to receive and practice the information they receive. Dental and oral health maintenance behavior in the sufficient category was dominant among 49.5% of respondents (16). Most respondents answered the survey correctly regarding dental frequency and timing. good toothbrushing, but there were still many respondents who answered using good technique. The results of research by RECA and others in 2022, show that children tend to only clean certain parts of their teeth according to their preferred parts of their teeth (17).

The Descriptive Statistical Test given will be explained including student behavior data with answers 105 with a total of 8915.4 data. The minimum score is 49.2 in the bad category, the maximum score is 100.0 or the good category, mean 84.908, standard deviation 10.2186.

This research did not analyze student's behavior before brushing their teeth during the 21 day program, it was not possible to see changes that appeared in behavior.

CONCLUSION

The results of the research show that the average dental and oral health maintenance behavior of students at SDN Bangetayu Wetan 01 Semarang City is in the sufficient category of 42 (49,5%).The results of the study showed that the characteristics of the respondents were mostly female (62.9%), mostly 10 years old (24.8%), dominated by the 21-day tooth brushing practice level of students in the routine category (82,9%).

REFERENCES

- Abdullah, N. (2018) "Hubungan Status Kesehatan Gigi Dan Mulut Anak Sekolah Dengan Pelaksanaan UKSG (Usaha Kesehatan Gigi Sekolah) Di Sekolah Dasar dan Sederajat Se Kota Makassar," Jurnal Media Kesehatan Gigi, 17(1), hal. 32–33.
- 2. Adliyani, Z. O. N. (2015) "Pengaruh Perilaku Individu terhadap Hidup Sehat," Perubahan Perilaku Dan Konsep Diri Remaja Yang Sulit Bergaul Setelah Menjalani Pelatihan Keterampilan Sosial, 4(7), hal. 109–114.
- 3. Aldilawati, S., Wijaya, M. F. dan "Upaya R. (2022) Hasanuddin, N. Status Pengetahuan Peningkatkan Kesehatan Gigi dan Mulut pada Masyarakat dengan Metode Penyuluhan FlipChart dan Video di Desa Lanna," Idea Pengabdian Masyarakat, 2(01), hal. 36-40. doi: Arianto 10.53690/ipm.v2i01.82.4. dan dkk,. 2014;
- Saftari, M. dan Fajriah, N. (2019) "Penilaian Ranah Afektif Dalam Bentuk Penilaian Skala Sikap Untuk Menilai Hasil Belajar," Edutainment: Jurnal Ilmu Pendidikan dan Kependidikan, 7(1), hal. 71–81. doi: 10.35438/e.v7i1.164.
- Ariyanto (2018) "Faktor Faktor Yang Berhubungan Dengan Perilaku Pemeliharaan Kebersihan Gigi Dan Mulut di Kelurahan Wonoharjo Kabupaten

Tanggamus Factors Related to Behavior of Maintenance of Tooth And Mouth Hygiene in Wonoharjo Sub-district , Tanggamus District," Jurnal Analisis Kesehatan, 7(2), hal. 744–748.

- Ayu Dewi Kumala Ratih, I. dan Hasiva Yudita, W. (2019) "Hubungan Tingkat Pengetahuan Tentang Cara Memelihara Kesehatan Gigi Dan Mulut Dengan Ketersediaan Alat Menyikat Gigi Pada Narapidana Kelas lib Rutan Gianyar Tahun 2018," Dental Health Journal, 6(2), hal. 1–4. Tersedia pada: file:///D:/semester 5/metode/jurnal/977-2309-1-SM (2).pdf.
- 8. Asri, D. (2021) "MODIFIKASI PERILAKU: TEORI DAN PENERAPANNYA."
- Fatmasari, D., Dyah Utami, W. J. dan Supriyana, S. (2020) "Edukasi dan Pendampingan Selama 21 Hari dengan Mogigu Meningkatkan Perilaku Menggosok Gigi dengan Benar pada Anak dan Orang Tua SD Bulusan Semarang," Jurnal Kesehatan Gigi, 7(1), hal. 29–34. doi: 10.31983/jkg.v7i1.5661.11.
- Fitriana, S. M. nur, Mahirawatie, I. C. dan Marjianto, A. (2021) "Motivasi Ibu Hamil Tentang Kebersihan Gigi Dan Mulut Di Puskesmas Ngumpakdalem Bojonegoro," Jurnal Skala Kesehatan, 12(1), hal. 33–41. doi: 10.31964/jsk.v12i1.271.13.
- 13. Sabani. Anjuran Penelitian Terhadap Anak Usia 10-12 Tahun. 2019;
- 14. Hermawan, R. S., Warastuti, W. dan Kemenkes Malang JI Besar, P. (2015) "The Factors that Influence Teeth and Oral Health of Preschool-Age Children in Early Childhood Education Perlita Vinolia Sub District Mojolangu," hal. 132–141.
- 15. Idayanti dan Kurniawati. Perkembangan Kognitif Anak. 2019;
- 17. Reca. Anak-Anak Membersihkan Gigi. 2022;
- Simaremare JPS, Wulandari ISM. Hubungan Tingkat Pengetahuan Kesehatan Gigi Mulut dan Perilaku Perawatan Gigi Pada Anak Usia 10-14 Tahun. J Keperawatan Muhammadiyah. 2021;6(3).
- Silvina Novianti, Khusnul Qotimah, Tihan Arvita, Hairul Anam. Literatur Review: Pengembangan Pembelajaran dan Pengorganisasian IPS di Sekolah Dasar. J Basicedu. 2023;7(6):3654–62.
- 20. Usia A, Introver D. Politik, Hukum, Pendidikan, Sosial dan Budaya. 2021;10(1):11–21.
- Santoso KB. Intervensi Pemerintah Dalam Bidang Ibadah Dan Muamalah. Dinar J Prodi Ekon Syariah [Internet]. 2022;5(2):55– 81. Available from: http://www.e-

jurnal.stail.ac.id/index.php/dinar/article/view /395

- 22. Sebetci Ö. Enhancing End-User Satisfaction Through Technology Compatibility: An Assessment On Health Information System. Heal Policy Technol. 2018;7(3):265–74.
- 23. Sabdana IWG. Analisis Kepuasan Pengguna Sistem Informasi Rumah Sakit (Sirs) Jiwa Propinsi Bali Dengan Metode End-User Computing Satisfaction (EUCS). J Ilmu Komput Indones. 2019;4(1):3–4.
- 24. Rahmah N, Afifa N. Analisis Kesulitan Belajar Siswa Sekolah Dasar pada Pembelajaran Ilmu Pengetahuan Alam. J Didakt Pendidik Dasar. 2023;7(3):929–56.
- Ramadhani, F., Mahirawatie IC dan I. Faktor yang Mempengaruhi Pengetahuan Orang Tua pada Karies Gigi Anak Usia Sekolah 6-12. Indones J Helath Med. 2021;3(ISSN:1(3)):487–492.
- 26. Munawarah. Pengaruh Gender Terhadap Faktor Psikologis Belajar Siswa. Rumah J Inst Agama Islam Negeri Bone. 2021;14(2):58–66.
- Maulida N, Arsyati AM, S. Gambaran Peran Orang Tua Terhadap Perilaku Anak Usia 10-12 Tahun Dalam Penggunaan Gadget Di Sdn Kayu Manis 2 Kota Bogor Tahun 2019. Promotor. 2020;3(1):64–71.
- 28. Luh NIa, Andreana P, Rosalia. Hubungan peran orang tua terhadap perilaku menyikat gigi pada anak di sekolah dasar saraswati 2 denpasar. Prof Heal J [Internet]. 2019; Available from: file:///C:/Users/LENOVO/Downloads/NI_LU H_PUTU_ANGGEI_ROSALIA_ANDREAN A.pdf
- 29. Lestari, I.S. dan Suminar SR. Tanggung Jawab atas Pelayanan Pemasangan Tambal Gigi oleh Tukang Gigi yang Berakibat kepada Kesehatan Pasien Ditinjau dari Peraturan Menteri Kesehatan Republik Indonesia No. 39 Tahun 2014 Tentang Pembinaan, Pengawasan dan

Perizinan Pekerjaan Tukang Gigi. Bandung Conf Ser Law Stud. 2022;2(No.1.(39)):472– 478.

- Larasati R, Wahyuni DF, Prasetyowati S, Hadi S. Systematic Literature Review: Pengetahuan Dan Perilaku Menggosok Gigi Pada Anak Usia Sekolah Dasar. J Kesehat Gigi dan Mulut. 2022;4(1):45–52.
- 31. Gopdianto R, Rattu AJM, Mariati NW. Status Kebersihan Mulut Dan Perilaku Menyikat Gigi Anak Sd Negeri 1 Malalayang. e-GIGI. 2014;3(1).
- Fitriana NK, Kumala AR, Marwanti, Daryani, Agustiningrum R, Supardi. Perilaku Menggosok Gigi Pada Anak Usia Sekolah Di SD Negeri 2 Belangwetan. Pros Semninar Nas UNIMUS. 2022;(2):1270–7.
- Fadlin I. Perkembangan Psikologis Anak Usia Pendidikan Dasar; Emosional, Kognitif, dan Psikomotor. J Al-Fikrah. 2021;10(2):180–92.
- Dewi TK, Syaefuddin FN. Hubungan Perilaku Hidup Bersih dan Sehat dengan Pengetahuan dan Perilaku Menggosok Gigi. JI-KES (Jurnal Ilmu Kesehatan). 2021;4(2):50–4.
- 35. Darmayanti R, Irawan E, Iklima N, Anggriani P, Handayani N. Hubungan Perilaku Menggosok Gigi Dengan Kejadian Karies Gigi Pada Anak Kelas V Sdn 045 Pasir Kaliki. J Keperawatan BSI [Internet]. 2022;10(2):284–90. Available from: https://ejurnal.ars.ac.id/index.php/keperawa tan/index
- Aprilianti T, Effendi L. Faktor-Faktor Yang Berhubungan Dengan Perilaku Menggosok Gigi Siswa Kelas IV, V, dan VI di SD Negeri Gadod Tahun 2020. Environ Occup Heal Saf J •. 2021;2(1):103.
- Applonia A, Priyono B, Widyanti N. Faktorfaktor yang Mempengaruhi Perilaku Pemeliharaan Kebersihan gigi dan Mulut Ibu Hamil di Puskesmas Kabupaten Kupang. Maj Kedokt Gigi Indones. 2014;21(1):20.