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Developing Science and Technology to Improve Health and Well-being"



Improving health and well-being for better society

Faculty of Graduate Studies Mahidol University
Nakhon Pathom, 29 September 2017



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Research for Better Society

2nd International Conference on Applied Science and Health
*Research for Better Society: Developing Science and Technology
to Improve Health and Well-being*

The 2nd International Conference on Applied Science and Health (ICASH 2)

29 September 2017
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DENTAL HEALTH EFFORTS (UKGS) IN REDUCING CARIES RISK AMONG ELEMENTARY STUDENTS AT BELITUNG VILLAGE, INDONESIA

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ABSTRACT

Background: A cariogram can be used to evaluate a health program such as a school dental effort by looking at one's chances for avoiding new caries.

Aims: This research aimed to compare the possibility to avoid new carries between the public elementary school with the dental health effort (UKGS) program and the school without the efforts (UKGS) using cariogram program.

Methods: To compare those samples, analytic survey with a cross-sectional design had been applied. The population was 150 students of grade IV of public elementary school at Belitung village (UKGS) and 149 students of grade IV of public elementary school at Rawasari village (Non-UKGS). A total of 32 students was selected by purposive random sampling. The independent variable data were collected by oral examination via dental status screening and interview through questionnaires. Moreover, the computer program of cariogram was used to obtain the form of new carries risk (dependent variable).

Results: Through the Independent t-tests and cariogram program, it can be seen there is no difference in the risk of new caries with t value (0.386) < t table (1.999) and p-value (0.701) > 0.05 with the risk of new caries inversely proportional to the chances of avoiding new caries which is 41.03% and 39.69% medium category higher category.

Conclusion: There is no significant difference in the chances of avoiding new caries between UKGS Public Elementary School with Non-UKGS Public Elementary School.

Keywords: caries risk factors, cariogram, caries experience, the chance of avoiding caries



Proceedings of the International Conference on Applied Science and Health is a conference collection of technical papers freely accessible to scholars over the world. This publication is dedicated to report original research findings, best practices, and review articles presented at the International Conference on Applied Science and Health (ICASH).

The journal is published by Yayasan Aliansi Cendekiawan Indonesia Thailand, also known as Indonesian Scholars' Alliance, based in Semarang, Central Java, Indonesia. Articles featured vary areas of efforts to develop health and well-being for better society such as factors of illness, epidemiology, health promotion, health policy, nutrition, environmental health and safety, nursing and midwifery, and other sciences related to health development.

In order to gain better understanding of the most crucial issues in Asia-Pacific region yet to provide evidence-based studies, this issue raises the fundamental of "Research for Better Society: Developing Science and Technology to Improve Health and Well-being". This book provides most precious works and perspectives underlining the importance of Health Promotion and Prevention Strategies, Public Health and Clinical aspect in Nursing, Maternal and Child Health, Applied Science in Education and Health, and Public Health Nutrition.

The report becomes important to review the current situation to direct the government and policy makers in designing strategic planning and health programs for the future growth and development of the regions.

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