





This study aimed to determine the effectiveness of using Tooth Buddy mobile application as means of promoting oral health education among children by evaluating changes on eight aspects:

Frequency of tooth brushing

Frequency of flossing

Frequency of mouth rinsing

Frequency of intake of food high in refined sugar

Amount of dentifrice used

Amount of time spent in brushing

Stroke used in tooth brushing

Stroke used in tooth brushing

Methodology

Game Development Population Sampling and Informed consent, Pre-test questionnaire and application sample distribution

Utilization of Mobile Application

Post-test Questonnaire and Follow-up

School of Dentistry

POST and PRE-USAGE OF TOOTH BUDDY MOBILE APPLICATION QUESTIONNAIRE

Greeting!

We, the undersigned Doctor of Dental Medicine students of the University of Baguio are conducting a study entitled "Tooth Buddy as means of promoting oral health education to children three to ten years old." In this regard, may we ask your voluntary participation in this study. Rest assured that your answers are completely confidential. Your answers will be used for research purposes only. You may withdraw anytime if you feel uncomfortable in answering the questionnaire.

Sincerely yours, The Researchers

As parents of the participant, the researchers are asking you to be the one filling up the questions as you ask your child in an interview manner.

Instructions: Just place a tick under the column corresponding to the answer regarding child's oral hygiene habits.

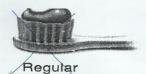
	0-1 time	2 time	3 times	More than 3 times
How often do you brush your teeth in a day?	/			
How often do you floss in a day?	/			
How often do you use mouthwash?	/			
How often do you eat food with high carbohydrate in a day?		/		

> Tick the amount of time you spend in tooth brushing:

<1 min ____ 1-2 min ____ more than 2 min. ____

Place an "x" Mark on the corresponding drawing which reflects the amount of dentifrice you are using during brushing.





Smear

Pea-size

Place a tick on the type of stroke you are using in tooth brushing (ask for the researchers explanation regarding the type of strokes if you do not fully understand them)

Scrubbing (Scrub motion in anterior-posterior direction keeping brush horizontal)

____ Circular (On a buccal wide circular movement to include gingiva and tooth surfaces; lingual a back and forth-horizontal motion)

____ Sulcular (Very short back and forth vibratory; bristle ends remain in the sulcus

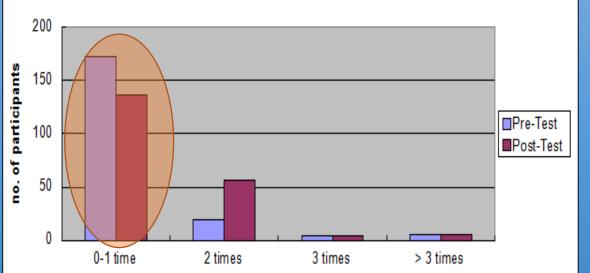
____None of the Above (indefinite)

Instructions: Just place a tick under the column corresponding to the answer of the child's willingness.

	Definitely	Probably	Probably	Definitely
	(4)	(3)	Not (2)	Not (1)
Do you like visiting a dentist?				
Do you like the dentist to clean your teeth?				
Do you like the dentist to Check your teeth regularly?				

Results and Discussions

C. Frequency of Mouth rinsing

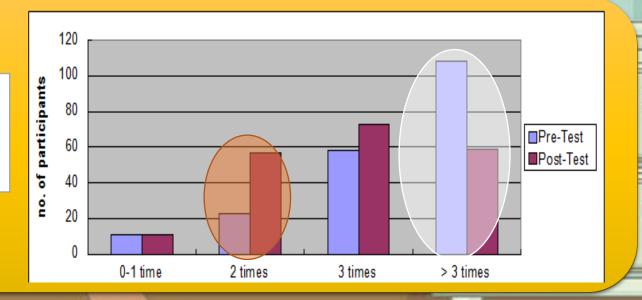


0-1 time a day:
From 175 to 145

2 times a day:

1 From 75 to 89



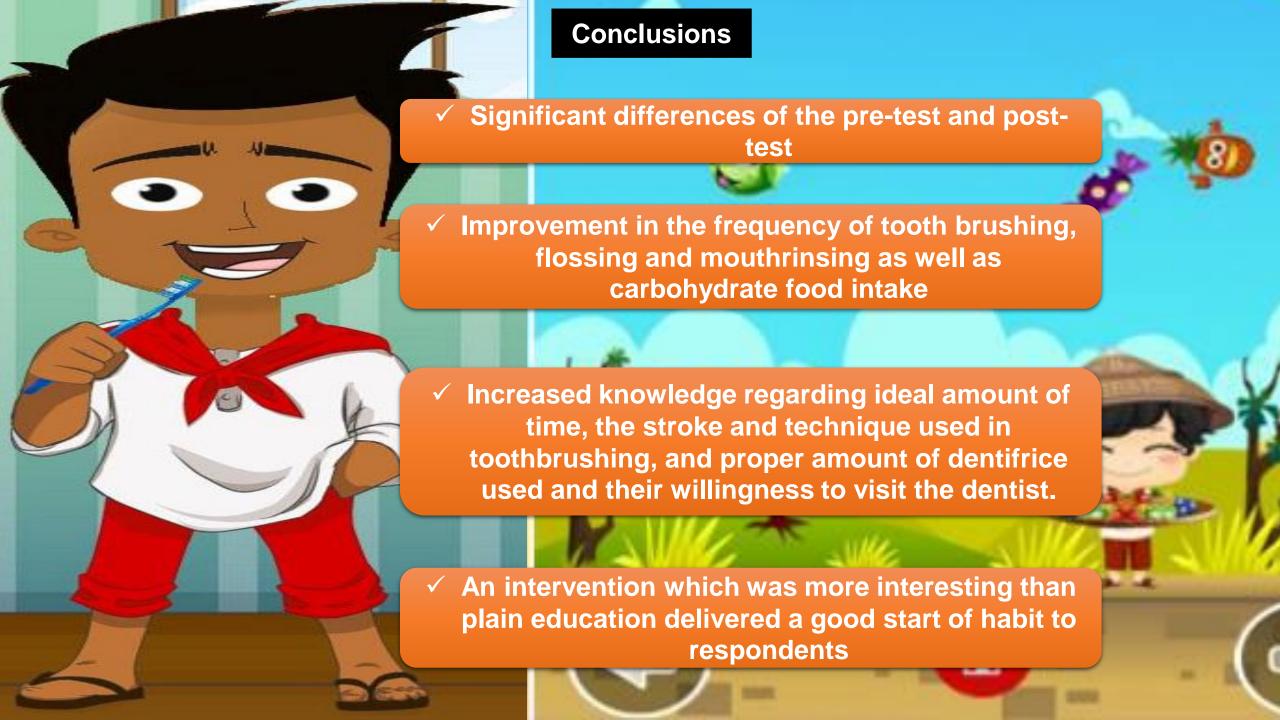


2 times a day:

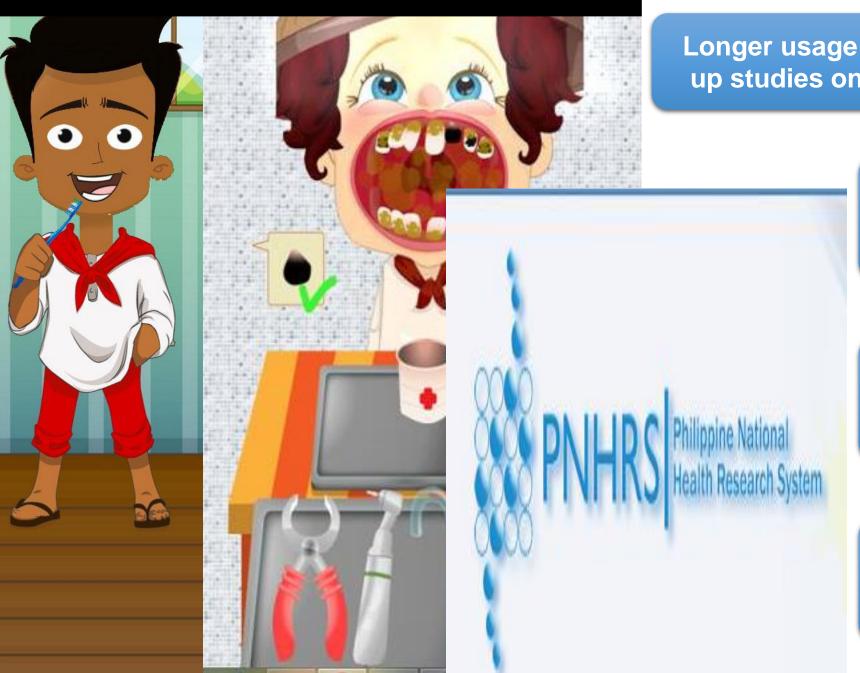
From 20+ to 50+

>3 times a day:
From **113 to 59**

Results and Discussions Fones: 150 From 60 +to 180+ G. Stroke Used in ■Pre-Test **Toothbrushing** ■Post-Test Vertical: From **90+ to > 20** Fones Bass Roll Vertical 100 **Probably Willing:** 80 **†** From **64 to 91** no. of participants H. Degree of willingness of the 60 ■Pre-test children to visit a ■Post-Test dentist probably willing definitely willing probably not willing definitely not willing



Recommendations



Longer usage duration along with follow up studies on the previous participants

Study regarding effectiveness of mobile application to children 7 years old and older

Possible expansion of gadgets where the application can be played

Collaboration with different agencies and families