

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison the effect of tooth brushing education via video, lecture and pamphlet on dental plaque index of 12 year old children

Protocol summary

Summary

Aims: The aim of this study was to compare the effect of different educational methods of tooth brushing (lecture, video and pamphlet) on dental plaque index of 12 year-old children. Design: A cluster randomized not blinded interventional trial was performed in January to April 2017 on 128 children aged 12 years in public and private schools of Babol city (north of Iran). The participants were randomly allocated into four groups based on the type of intervention; group 1: no intervention, group 2, 3, 4: education via lecture, video and pamphlet, respectively (n=32). Method: Plaque index (PI) was determined by oral examination at the baseline and 2 month later for group 1. Also it was recorded before education and 24 hours, 1 and 2 months later for groups 2, 3, 4. Participants: Healthy children who had the teeth # 11, 16, 26, 31, 36, and 46 were included and who were dissatisfied to participate in the study or had physical and mental problems that limited learning ability, had a painful tooth in the mouth or sensitivity to toothpaste and a large dental calculus were excluded. Interventions: Education of tooth brushing via lecture, video and pamphlet. Outcome: Plaque index before and after the education.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017080721519N5**

Registration date: **2017-10-29, 1396/08/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-10-29, 1396/08/07

Registrant information

Name

Samane Gharekhani

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3219 9592

Email address

s.gharekhani@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Babol University of Medical Sciences

Expected recruitment start date

2017-01-01, 1395/10/12

Expected recruitment end date

2017-04-30, 1396/02/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of tooth brushing education via video, lecture and pamphlet on dental plaque index of 12 year old children

Public title

the effect of tooth brushing education via video, lecture and pamphlet on dental plaque index of 12 year old children

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: healthy children; having teeth part in plaque index (11, 16, 26, 31, 36, and 46) Exclusion

criteria: dissatisfaction of children to participate in the study; physical and mental problems that limited learning ability; Having painful tooth in the mouth; sensitivity to toothpaste; having a large dental calculus.

Age

From **12 years** old to **12 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **128**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Babol University of Medical Sciences

Street address

Ganjafrooz street

City

Babol

Postal code

47176-47745

Approval date

2017-03-07, 1395/12/17

Ethics committee reference number

1395.260

Health conditions studied

1

Description of health condition studied

Dental caries

ICD-10 code

K02.9

ICD-10 code description

Dental caries, unspecified

2

Description of health condition studied

Gingivitis and periodontal diseases

ICD-10 code

k05

ICD-10 code description

Gingivitis and periodontal diseases

Primary outcomes

1

Description

Dental plaque index

Timepoint

0,24 h and 2 month later

Method of measurement

Oral examination

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 2: Tooth brushing education with Bass technique via lecture and a dental model for the same time of 10 minutes

Category

Other

2

Description

control group: no intervention

Category

N/A

3

Description

Intervention group 3: Tooth brushing education with Bass technique via a researcher-made video in form of animation and film for the same time of 10 minutes

Category

Other

4

Description

Intervention group 4: Tooth brushing education with Bass technique via a resercher-made pamphlet with both pictures and text which was read by children within the same time of 10 minutes and was given to them for using at home

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Schools

Full name of responsible person

Street address

City

Babol

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research deputy of Babol University of Medical Sciences

Full name of responsible person

Dr. Moghadamnia

Street address

Ganjafrooz street

City

Babol

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Research deputy of Babol University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Babol University of Medical Science

Full name of responsible person

Samane Gharekhani

Position

Assistant Professor

Other areas of specialty/work

Street address

Ganjafrooz street

City

Babol

Postal code

Phone

+98 11 3219 9592

Fax

Email

sgharekhani@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Samane Gharekhani

Position

Assistant Professor

Other areas of specialty/work

Street address

Ganjafrooz street

City

Babol

Postal code

Phone

+98 11 3219 9592

Fax

Email

sgharekhani@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Full name of responsible person

samane gharekhani

Position

Other areas of specialty/work

Street address

City

Postal code

Phone

00

Fax

Email

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty