Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The effect of oral health education using blended learning on Adoption of dental caries preventive behaviors among students at elementary schools

Protocol summary

Summary

The aim of this study was to determine the effect of oral and dental health education on combining dental caries preventive behaviors in students and the specific goals are: determine the demographic and background characteristics of students in two groups: intervention and control, determination The relationship between knowledge, attitude and behavior with demographic variables, determine and compare the mean score of knowledge, attitude and preventive behaviors in students about dental caries before, immediately and two months after the intervention. In this semi-experimental study, female students of elementary school in KootAbdollah town were selected through multistage cluster sampling in the first semester of the academic year of 2017-2016. The criteria for entering the study are as follows: Residence in Koot Abdollah, primary and secondary education, and willingness to participate in the study, as well as exclusion criteria include incomplete completion of the questionnaire, reluctance to continue studying and transfer to other schools. The data collection tool was a demographic and subscale characteristics questionnaire and a standard questionnaire for assessing the knowledge, attitude and behavior regarding the prevention of dental caries that was completed in three stages before, immediately and two months after the intervention. The experimental group received two sessions of combination training, which included the use of presentation, PowerPoint, practical and role play.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017082635899N1**
Registration date: **2017-10-03, 1396/07/11**
Registration timing: **retrospective**
Last update:
Update count: **0**

Registration date

2017-10-03, 1396/07/11

Registrant information

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Hosna Rrashidi Birgani
Name of organization / entity
Tarbiat modares
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Recruitment status

Recruitment complete

Funding source

investigator

Expected recruitment start date

2017-02-17, 1395/11/29

Expected recruitment end date

2017-06-20, 1396/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of oral health education using blended learning on Adoption of dental caries preventive behaviors among students at elementary schools

Public title

The effect of oral health education using blended learning on Adoption of dental caries preventive behaviors among students at elementary schools

Purpose
Prevention
Inclusion/Exclusion criteria
Inclusion criteria included: residence in the town of Kootabdollah, studying in fifth and sixth grades and willingness to participate in the study and exclusion criteria included: imperfect completion of questionnaires, lack of willing to continue to participate in the study and transfer to other schools.
Age
No age limit
Gender
Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **120**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features
Samples were selected from elementary schools in the city of Kootabdollah by multistage cluster sampling method. First, a list of girls' schools was provided at the elementary level of Kootabdollah. Then they randomly selected 2 schools. Two selected schools were randomly divided into two intervention and control groups.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
ethics committee of Tarbiat Modares University
Street address
Tehran, Jalal al ahmad, Nasr Bridge
City
Tehran
Postal code
Approval date
2016-12-04, 1395/09/14
Ethics committee reference number
IR.TMU.REC.1395.452

Health conditions studied

1

Description of health condition studied
oral health
ICD-10 code
k03.2
ICD-10 code description
Erosion of teeth

Primary outcomes

1

Description
Awareness
Timepoint
Before the intervention, immediately and two months after the intervention
Method of measurement
questionnaire

2

Description
Attitude
Timepoint
Before the intervention, immediately and two months after the intervention
Method of measurement
questionnaire

3

Description
Performance
Timepoint
Before the intervention, immediately and two months after the intervention
Method of measurement
questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
Education using blended learning include PowerPoint , lectures, Replica and practical presentation for 2 training sessions.
Category
Behavior

Recruitment centers

1

Recruitment center
Name of recruitment center

Prophecy elementary school
Full name of responsible person
Fereshteh Tadayon Nia
Street address
Kootabdollah- Telecommunication Street
City
Kootabdollah

2

Recruitment center
Name of recruitment center
Culture elementary school
Full name of responsible person
laleh Asakereh
Street address
hadi abad
City
Kootabdollah

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research tarbiat modares university
Full name of responsible person
Yagub Fathollahi
Street address
Tehran- Tarbiat Modares University
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research tarbiat modares university
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
Tarbiat Modares University
Full name of responsible person
SHamsaddin Niknami
Position
Associate Professor, Department of Health Education, Faculty of Medicine, Tarbiat Modares University
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Web page address

Person responsible for updating data

Contact

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