

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 2026

evaluating the effect of a smartphone application on oral health indices and literacy of school-aged adolescents in Ahvaz

Protocol summary

Study aim

evaluating the effect of a smartphone application on oral health indices and literacy of school-aged adolescents in through a brief intervention in Ahvaz

Design

community based, parallel group, double blind, randomised controlled trial

Settings and conduct

health education for students, middle schools, clinical examinations and oral health instructions and questionnaire fulfillment students and data analyzer are blinded.

Participants/Inclusion and exclusion criteria

Inclusion criteria: 1. individuals must be completely satisfied to participate in the study. 2. individuals must be 12-15 years old. 3. individuals must be have access to a smartphone. 4. individuals must be in permanent dentition. Exclusion criteria: 1. no presence of any diagnosed disease 2. unable to follow-up 3. relocating to another school 4. any disease that affects the study 5. orthodontics treatment

Intervention groups

randomly selecting to groups of students, face to face education of oral health for control group, smartphone-application-based education of oral health for intervention group

Main outcome variables

oral health observance; oral health literacy elevation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20191016045128N1**

Registration date: **2019-10-29, 1398/08/07**

Registration timing: **prospective**

Last update: **2019-10-29, 1398/08/07**

Update count: **0**

Registration date

2019-10-29, 1398/08/07

Registrant information

Name

Samaneh Khanehmasjedi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3338 9516

Email address

khanehmasjedi.s@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-11-22, 1398/09/01

Expected recruitment end date

2020-03-20, 1399/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

evaluating the effect of a smartphone application on oral health indices and literacy of school-aged adolescents in Ahvaz

Public title

evaluating the effect of a smartphone application on oral health in school-aged adolescents in Ahvaz

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

individuals must be completely satisfied to participate in the study. individuals must be 12-15 years old. individuals must be have access to a smartphone. individuals must be in permanent dentition.

Exclusion criteria:

presence of any diagnosed disease unable to follow-up relocating to another school any disease that affects the study orthodontics treatment

Age

From **12 years** old to **15 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Data analyser
- Data and Safety Monitoring Board

Sample size

Target sample size: **240**

Randomization (investigator's opinion)

Randomized

Randomization description

method of randomization in this study is block. unit of randomization is individual. sealed envelope is the tool used in randomization. the random sequence was built by throwing coins.

Blinding (investigator's opinion)

Double blinded

Blinding description

in this study the participants, data analyzer and the main investigator are blinded. outcome collector and assessor is not blinded.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Ahvaz University of Medical Sciences

Street address

Unit 2, No 65, West Mihan street, Chamran avenue, Kianpars

City

Ahvaz

Province

Khuzestan

Postal code

6155814885

Approval date

2019-05-05, 1398/02/15

Ethics committee reference number

IR.AJUMS.REC.1398.116

Health conditions studied**1****Description of health condition studied**

dental caries

ICD-10 code

K02

ICD-10 code description

Dental caries

Primary outcomes**1****Description**

The extent of people's health observance

Timepoint

4 months after intervention

Method of measurement

oral health literacy questionnaire

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: a group of students that receive an educational smartphone application made by researcher, according to referenced textbooks.

Category

Prevention

2**Description**

Control group: a group of students which receive the gold standard method of oral health education; face to face education.

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

kowthar middle school

Full name of responsible person

Samaneh Khanehmasjedi

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2

Recruitment center

Name of recruitment center

setayesh middle school

Full name of responsible person

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3

Recruitment center

Name of recruitment center

middle school

Full name of responsible person

Samaneh Khanehmasjedi

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Recruitment center

Name of recruitment center

shahid abbaspoor middle school

Full name of responsible person

Samaneh Khanehmasjedi

Street address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Mohammad Badavi

Street address

Vice-Chancellor for Research and Technology
Development, Ahvaz Jundishapur University of
Medical Sciences, Golestan Blvd

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Ahvaz

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6135715794

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Grant name

Research deputy of Ahvaz University of Medical Science

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Samaneh Khanehmasjedi

Position

student

Latest degree

Bachelor

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Leila Bassir

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for updating data

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Samaneh Khanehmasjedi

Position

student

Latest degree

Bachelor

Other areas of specialty/work

Dentistry

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available