

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Comparing the Effects of Animation Programming with Text-Based Education on the Self-Declared Knowledge and Practice of Oral Health in Toddlers' Mothers

Protocol summary

Study aim

Oral health is a very important and decisive component in the overall health of children. Toddlers are exposed to a variety of risk factors for maintaining good oral health, and it is clear that these risk factors can be controlled solely by parents. This education might lead to irreversible decline and the increasing level of oral children health. Needless to say, toddlers are at one of the most sensitive times. When necessary, health-related behaviors are formed, which is not possible except with parental awareness and education. Mothers of children in this age group in the form of virtual online questionnaires.

Design

Audio-visual content that contains educational messages about the importance of early childhood visits to the dentist, how to feed children to reduce and control dental caries, how to take care of newborns teeth, how to transmit cariogenic bacteria from mother to child and tips on maternal oral health in relation to the child are prepared and produced.

Settings and conduct

In this experimental study, we collect 100 mothers with children aged 1 to 3 years through the virtual network of Instagram and consider them as the target community.

Participants/Inclusion and exclusion criteria

Mothers should have access to the Internet and the social network Instagram, the mother should be the main caregiver of the child in the family and the mothers should have children aged 12 to 36 months. Exclusion criteria are non-cooperation during the study.

Intervention groups

Mothers in the experimental group will receive the desired educational content online in the form of a 1-2 minute animation with audio-visual content.

Main outcome variables

The level of awareness created in mothers will be

assessed by a questionnaire whose reliability has been proven.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20131102015238N4**

Registration date: **2021-02-20, 1399/12/02**

Registration timing: **registered_while_recruiting**

Last update: **2021-02-20, 1399/12/02**

Update count: **0**

Registration date

2021-02-20, 1399/12/02

Registrant information

Name

Simin Z. Mohebbi

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 8801 5960

Email address

smohebbi@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-02-19, 1399/12/01

Expected recruitment end date

2021-05-22, 1400/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the Effects of Animation Programming with Text-Based Education on the Self-Declared Knowledge and Practice of Oral Health in Toddlers' Mothers

Public title

Animation Programming in Comparison with Text-Based Education on Oral Health in Toddlers' Mothers

Purpose

Health service research

Inclusion/Exclusion criteria**Inclusion criteria:**

Mothers who have access to the Internet and the social network Instagram. Mothers who are the main caregiver of the child in the family. Mothers with children of 12 to 36 months

Exclusion criteria:

Lack of cooperation during the project

Age

No age limit

Gender

Female

Phase

N/A

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

Sample size

Target sample size: 100

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization by assigned random numbers with computer software

Blinding (investigator's opinion)

Double blinded

Blinding description

The information about the assignment of each participant to the study groups is coded and through this the research facilitators, evaluators of the results and statistical analysts are blind to it.

Placebo

Not used

Assignment

Parallel

Other design features

Parents of toddlers, as the main caregivers of children have an important role in creating a positive attitude towards oral health in their children from the earliest years of life, and these orders are provided to parents in the context of proper education.

Secondary Ids

empty

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

Ethics committee of Tehran University of Medical Sciences Faculty of Dentistry

Street address

Karegar Street, Tehran University of Medical Sciences Faculty of Dentistry

City

Tehran

Province

Tehran

Postal code

81631

Approval date

2020-10-03, 1399/07/12

Ethics committee reference number

IR.TUMS.DENTISTRY.REC.1399.110

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

Oral health medicine

ICD-10 code

K08

ICD-10 code description

Other disorders of teeth and supporting structures

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

Knowledge of oral health

Timepoint

after completion of intervention

Method of measurement

Questionnaire

2**Description**

Practice of Oral Health

Timepoint

after completion of intervention

Method of measurement

Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Mothers with children 1 to 3 years old are collected through the virtual network Instagram and are considered as the target community. At least three "1-2 minute" animations in series with audio-visual content that contain educational messages about the importance of early childhood visits to the dentist, how to feed children to reduce and control dental caries, how to take care of teeth – Toddler's tips, how to transmit cariogenic bacteria from mother to child, and tips on mother-to-child oral hygiene related to the child will be sent to them.

Category

Lifestyle

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Dentistry, Tehran University of Medical Sciences

Full name of responsible person

Simin Z. Mohebbi

Street address

End of North Kargar Street, Adjacent to the Atomic Energy Organization, High School of Dentistry, Tehran University of Medical Sciences

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mohammad Ali Sahraian

Street address

Keshavarz Blvd, Ghods St, Central Organization of the University, Sixth Department of Research and Technology

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Web page address

http://vcr.tums.ac.ir

Grant name

Tehran University of Medical Sciences, Research Deputy

Grant code / Reference number

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

No

Title of funding source

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Simin Z. Mohebbi

Position

Head of Community Oral Health Department

Latest degree

Ph.D.

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Simin Z. Mohebbi

Position

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Comparing the Effects of Animation Programming with Text-Based Education on the Self-Declared Knowledge and Practice of Oral Health in Toddlers' Mothers.

When the data will become available and for how long

We are going to publish a paper from the study findings and all above mentioned may be included in appendix or sent to journal for public view

To whom data/document is available

We are going to publish a paper from the study findings and all above mentioned may be included in appendix or sent to journal for public view.

Under which criteria data/document could be used

We are going to publish a paper from the study findings and all above mentioned may be included in appendix or sent to journal for public view.

From where data/document is obtainable

We are going to publish a paper from the study findings and all above mentioned may be included in appendix or sent to journal for public view

What processes are involved for a request to access data/document

We are going to publish a paper from the study findings and all above mentioned may be included in appendix or sent to journal for public view

Comments