Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Nov 2026

Comparison of physicians training via smart phone applications in the field of pediatric oral health with traditional continuing education in Tehran

Protocol summary

Summary

This study is a randomized trial. It will especially assess the level of physicians' knowledge, attitude and practice toward the prevention of oral diseases in children in Tehran and it will also assess the effectiveness of smart phone application in promoting children's oral health compared with conventional methods of physicians' continuing education in Tehran. Study population is a sample of general practitioners working in primary health centers in Tehran which are selected by census sampling method. First, baseline data of the physicians will be collected by the questionnaire. The sample will be randomly divided into two groups. While the first group (n=135) receives training through a smart phone application, physicians of the second group(n=100) will receive traditional CE. Interventions will be completed within 10 days after baseline data collection. First follow up would be performed 10 days after baseline data collection, and the second follow up would be done four months after baseline data collection. Follow up data collections would be done with the same questionnaire as baseline tool. Some questions on feedback of the training method will also be added to the follow up questionnaire. Each participant would enter a personal code in the both baseline and follow ups questionnaires in order to provide the possibility of measuring individual changes.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016091029765N1**
Registration date: **2016-11-09, 1395/08/19**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-11-09, 1395/08/19

Registrant information

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Recruitment status

Recruitment complete

Funding source

Research Center for Caries Prevention, Dentistry Research Institute, Tehran University of Medical Sciences- Deputy for Education, Tehran University of Medical Sciences.

Expected recruitment start date

2016-10-10, 1395/07/19

Expected recruitment end date

2017-10-10, 1396/07/18

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of physicians training via smart phone applications in the field of pediatric oral health with traditional continuing education in Tehran

Public title
Electronic training of physicians in the field of pediatric dentistry and oral health
Purpose
Health service research
Inclusion/Exclusion criteria
inclusion:working in health network of Tehran as physician; exclusion: lay offing as physician of health networks of Tehran
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **235**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
simple random randomization

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Tehran University of Medical Sciences
Street address
TUMS.Main building.Qods st.Keshavarz blv.
City
Tehran
Postal code
Approval date
2016-04-02, 1395/01/14
Ethics committee reference number
IR.TUMS.REC.1395.2252

Health conditions studied

1

Description of health condition studied
General physician's knowledge, attitude and behavior in pediatric oral health

ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
General physicians knowledge in pediatric dentistry and oral health care
Timepoint
will be assessed once 4 months after the start point of study
Method of measurement
Questionnaire

2

Description
General physicians attitude in pediatric dentistry and oral health care
Timepoint
will be assessed once 4 months after the start point of study
Method of measurement
Questionnaire

3

Description
General physicians behavior in pediatric dentistry and oral health care
Timepoint
will be assessed once 4 months after the start point of study
Method of measurement
Questionnaire

Secondary outcomes

1

Description
General physicians tendency for preventive screening of oral disease and risk estimation and refering children to dentist during practice
Timepoint
will be assessed once 4 months after the start point of study
Method of measurement
Questionnaire

2

Description
Barriers of preventive practice in the field of pediatric dentistry and screening
Timepoint
will be assessed once 4 months after the start point of study
Method of measurement
questionnaire

Intervention groups

1

Description
Group 1: Training through Smart Phone Application. Smart phone application will be developed with a content which has been extracted from the booklet of other intervention group. The application also has the dynamic section for asking questions and a tutorial of how to work with it. Reminders for using it will be sent twice a week.
Category
Other

2

Description
Group 2: Traditional continuing education (CE) method. As traditional CE method a booklet will be used. The booklet contains information on pediatric oral and dental disease (caries and its etiology, signs and care, dietary habits, fluoride therapy, fissure sealants, and dental traumas). Also there would be a lecture session for this group in which the participants can ask their questions regarding oral health. Every month a reminder text message will be sent to them.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Deputy for Health, Tehran University of Medical Sciences
Full name of responsible person
Dr Shariati
Street address
City
Tehran

2

Recruitment center
Name of recruitment center
Deputy for Health, Shahid Beheshti University of Medical Sciences
Full name of responsible person
Dr Arshi
Street address
City
Tehran

3

Recruitment center
Name of recruitment center
Deputy for Health, Iran University of Medical Sciences
Full name of responsible person
Dr Joneidi Jafari
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for research of Tehran University of Medical Sciences.Research Center for
Full name of responsible person
Dr Khorshidi
Street address
Oral healrh and caries research center of dental school TUMS. Qods St
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 of Tehran University of Medical Sciences.Research Center for
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

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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