Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Investigating the effect of handwash training on knowledge, attitude and manner of washing the hands of third grade elementary school student in tehran city in 1394

Protocol summary

Study aim

Determining the effect of handwashing training program on knowledge, attitude and manner of washing hands of third grade elementary school students

Design

This study is a semi-experimental study of a randomized clinical trial. Sixty-seven primary school students in district 1 of Tehran were randomly divided into intervention and control groups using pre-test and post-test. In order to collect data in both groups, an awareness-gauging questionnaire, attitude, and handwashing handwashing inventory were used.

Settings and conduct

Selecting an area from randomly selected areas of education, choosing a randomly clustered area, choosing two boys and two girls' schools randomly and then randomly assigning a boys school and a girls' school as an intervention group and a boys' And a girls' school in the control group and a random sampling of the third grade students of that school if that school has more than a third grade class.

Participants/Inclusion and exclusion criteria

maximum age of at least 8-10, a child or parent's consent, not attending similar research, lack of concentration disorders and none of the child's parents are a member of the health staff. Exit criteria: Non-attendance at one of the training sessions, the individual's or parents' dissatisfaction with continuing cooperation, the occurrence of any stressful events during the implementation of the training program.

Intervention groups

38 students from the 3rd grade elementary school received hand-held instruction in 3 class sessions using posters, films and animations. 38 students were in the control group and did not receive any training.

Main outcome variables

Determining and comparing the knowledge, attitude and manner of washing the hands of the third grade elementary school students in Tehran before and after handshake training in the intervention and control group

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181008041275N1**
Registration date: **2018-10-21, 1397/07/29**
Registration timing: **retrospective**

Last update: **2018-10-21, 1397/07/29**
Update count: **0**

Registration date

2018-10-21, 1397/07/29

Registrant information

Name

Maryam Mohamadi

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2016-05-15, 1395/02/26

Expected recruitment end date

2016-05-17, 1395/02/28

Actual recruitment start date

2016-05-15, 1395/02/26

Actual recruitment end date
2016-05-17, 1395/02/28
Trial completion date
2016-06-07, 1395/03/18

Scientific title
Investigating the effect of handwash training on knowledge, attitude and manner of washing the hands of third grade elementary school student in tehran city in 1394

Public title
Investigating the effect of handwashing training on elementary school students
Purpose
Prevention
Inclusion/Exclusion criteria
Inclusion criteria:
Having a maximum of at least 10-8, a third grade primary school. Child or Parental Satisfaction Not participating in similar research Absence of disturbance disturbances (autism and hyperactivity) None of the child's parents is a member of the health staff
Exclusion criteria:
Not attending one of the training sessions Dissatisfaction of the individual or parents to continue cooperation The occurrence of any stressful events during the implementation of the training program
Age
From **8 years** old to **10 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **70**
Actual sample size reached: **76**
Randomization (investigator's opinion)
Randomized
Randomization description
Multi-stage sampling of Tehran's educational areas. At first, an area from among the educational districts was randomly selected. Then, a randomly selected cluster area was selected from among its areas. The choice of two male schools and two girls' schools were randomly assigned and then randomized to a boys' school and a girls' school as an intervention group and a boys' school and a girls' school in the control group and random sampling from their third grade school students if they That school had more than a third grade class.
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
In this study, two questionnaires of attitude-gauging and awareness-raising and a hand-crafted performance evaluation checklist were used to collect information. All of them were researched and their validity and reliability were confirmed by the CVR test.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
University of Rehabilitation Sciences and Social Welfare
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Postal code
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Approval date
2016-05-09, 1395/02/20
Ethics committee reference number
IR.USWR.REC.1395.60

Health conditions studied

1

Description of health condition studied
Third grade elementary school students
ICD-10 code
ICD-10 code description

2

Description of health condition studied
Age 8-9
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Attitude
Timepoint
At the beginning of the study, 21 days after the end of the intervention
Method of measurement
Researcher-made Attitude Survey Questionnaire

2

Description

knowledge

Timepoint

At the beginning of the study, 21 days after the end of the intervention

Method of measurement

Researcher-mad knowledge-raising questionnaire

3

Description

How to handwashing

Timepoint

At the beginning of the study, 21 days after the end of the intervention

Method of measurement

Checklist for handwashing performance evaluation

Secondary outcomes

empty

Intervention groups

1

Description

The intervention group consists of 19 girls and 19 boys aged 10-9 years. The training program was conducted in 3 sessions of 20-25 minutes and in small groups of 5-3 people, for 3 consecutive days in a relaxed and suitable environment. The presence of child health educators was held. Were used for pre-test and post-test. To collect data, a researcher-made awareness-gauging questionnaire, attitudes questionnaire and a hand-crafted handwashing inventory were used. The sessions included methods Different teaching methods (lectures, group questions and answers) were used. Meanwhile, teaching materials including Whiteboard, PowerPoint, music, and childish poetry were used during the teaching. (Combining different educational methods with each other).

Category

N/A

2

Description

Control group: In the pre-test and post-test stages, a researcher-madeawareness-gauging questionnaire, attitudes questionnaire and a hand-crafted handwashing inventory were studied. This group did not receive any training alone.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Hakim boys' elementary School

Full name of responsible person

Mr. Jalal Asgharian

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Recruitment center

Name of recruitment center

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3

Recruitment center

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4

Recruitment center

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Full name of responsible person

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Sponsors / Funding sources

1

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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
University of social welfare and rehabilitation 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
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Maryam.Mohamadi
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available
Justification/reason for indecision/not sharing IPD
The research has been carried out under the condition of confidentiality of the information of the subjects.
Study Protocol
No - There is not a plan to make this available
Statistical Analysis Plan
No - There is not a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
No - There is not a plan to make this available
Analytic Code
No - There is not a plan to make this available
Data Dictionary
No - There is not a plan to make this available