

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 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 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

Street address

University of Rehabilitation Sciences and Social Welfare, koodakyar st, daneshjoo Blvd, velenjak, Tehran, Iran

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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-made 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-made awareness-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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2

Recruitment center

Name of recruitment center

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Full name of responsible person

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3

Recruitment center

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Recruitment center

Name of recruitment center

Shahid Ghaffari boys' elementary school

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

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Full name of responsible person

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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****Name of organization / entity**

University of social welfare and rehabilitation sciences

Full name of responsible person

Maryam.Mohamadi

Position

Nurse

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Full name of responsible person

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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