

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Comparing the Effects of disaster risk education through lectures and game method on high school students' knowledge

Protocol summary

Study aim

Comparing the Effects of disaster risk education through lectures and game method on high school students' knowledge in Shiraz 1) Comparing the effect of hazard education through lecture and game method on students' knowledge 2) Comparing the effect of vulnerability education through lecture and game method on students' knowledge 3) Comparing the effect of capacity education through lecture and game method on students' knowledge 4) Comparing the effect of risk education through lecture and game method on students' knowledge

Design

In this study 332 students from first, second and third grade high school were selected. The participants were randomly divided into two groups of 20 students. The first group was educated by lecture method and the next one by game method.

Settings and conduct

The trial was conducted in Shiraz, Fars province, Iran. Shiraz has 4 education districts. After providing a list of schools in all areas, a boys school and a girls school were randomly selected from each district. Subsequently, two available classes including 20 students were educated by lecture and game method. This trial was Single blind. scholars, school administrators and students were blind participants. Blinding was done by coding and random allocation.

Participants/Inclusion and exclusion criteria

Shiraz high school students in the academic year of 2016 - 17

Intervention groups

First group: High school Students who were educated in the disaster risk management through lecture Method.
Second group: High school Students who were educated in the disaster risk management through game Method.

Main outcome variables

The changes in the level of high school students' knowledge through different educational intervention

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171014036766N1**

Registration date: **2018-01-06, 1396/10/16**

Registration timing: **retrospective**

Last update: **2018-01-06, 1396/10/16**

Update count: **0**

Registration date

2018-01-06, 1396/10/16

Registrant information

Name

Mohammad Javad Moradian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3230 3679

Email address

drmoradian@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Trauma Research Center, Shahid Rajaei (Emtiaz)

Expected recruitment start date

2016-09-22, 1395/07/01

Expected recruitment end date

2017-06-20, 1396/03/30

Actual recruitment start date

2017-02-23, 1395/12/05

Actual recruitment end date

2017-05-15, 1396/02/25

Trial completion date

empty

Scientific title

Comparing the Effects of disaster risk education through lectures and game method on high school students' knowledge

Public title

Comparing the Effects of disaster risk education through lectures and game method on high school students' knowledge in Shiraz

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Shiraz high school students in the academic year of 2016 - 17

Exclusion criteria:

Students with disabilities

Age

From **14 years** old to **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator
- Data analyser
- Data and Safety Monitoring Board

Sample size

Target sample size: **288**

Actual sample size reached: **332**

Randomization (investigator's opinion)

Randomized

Randomization description

Samples were selected by Cluster random method. In the first stage of sampling, a list of schools was provided in four education districts of Shiraz and a code was given to each school. Subsequently, a boys school and a girls school were randomly selected from each district. In the second stage, two available classes including 20 students were selected. Then, one of the groups was randomly educated by the lecture method and the next one by the game method.

Blinding (investigator's opinion)

Single blinded

Blinding description

A formal letter from Department of Education was sent to selected schools and time was set for educational intervention in students. In this study, school administrators and students were unaware of different educational methods. Schools, classes, and students were coded. Although the evaluators were aware of the groups' responses, there was no possibility to enter their opinion because the test had questions with four options.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

Secondary trial Id

Registration date

1395-11-22, 777/01/-848

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shiraz University of Medical Sciences

Street address

Central building of Shiraz University of Medical Sciences, Zand St., Shiraz, Iran

City

Shiraz

Province

Fars

Postal code

71348-14336

Approval date

2016-09-11, 1395/06/21

Ethics committee reference number

ir.sums.rec.1395.106

Health conditions studied

1

Description of health condition studied

The level of knowledge in Disaster risk management

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The knowledge score in disaster risk management

Timepoint

2 months

Method of measurement

pre and post test

Secondary outcomes

empty

Intervention groups

1

Description

Disaster risk Education by lecture Method: The four

concepts of hazard, vulnerability, capacity and risk were taught through the lecture method in 90 minutes.

Category

Behavior

2**Description**

Disaster risk Education by game Method: The four concepts of hazard, vulnerability, capacity and risk were taught through the game method in 90 minutes.

Category

Behavior

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

Department of Education

Full name of responsible person

Qasem Nemati

Street address

East Moadel Street, Shiraz, Fars Province.

City

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7134785475

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+98 71 3233 5953

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farsmedu@gmail.com

Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Trauma Research Center, Shahid Rajaei (Emtiaz)

Full name of responsible person

Ms. Shayan

Street address

Trauma Research Center, Rajaei Hospital, Chamran Ave., Shiraz, Iran

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natrauma2@sums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor****organization/entity?**

Yes

Title of funding source

Trauma Research Center, Shahid Rajaei (Emtiaz)

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**

Shiraz Medical Scientific Applied Center

Full name of responsible person

Zahra Meraein Nazdic

Position

Lecturer

Latest degree

Master

Other areas of specialty/work

Health in Emergency and Disaster

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Imam Khomeini Blvd, Kavar, Fars, Iran

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Fax**Email**

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

Shiraz University of Medical Sciences

Full name of responsible person

Mohammad Javad Moradian

Position

Vice Chancellor of health deputy

Latest degree

Ph.D.

Other areas of specialty/work

Health in Emergency and Disaster

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Person responsible for updating data

Contact

Name of organization / entity
Shiraz Medical Scientific Applied Center
Full name of responsible person
Zahra Mehraein Nazdic
Position
Lecturer
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Health in Emergency and Disaster
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

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

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

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

Title and more details about the data/document

A report including an introduction, methodology, results and discussion

When the data will become available and for how long

Access Period 3 months after publication

To whom data/document is available

All officials and experts of the Ministry of Health and Medical Education as well as the Ministry of Education

Under which criteria data/document could be used

The applicant's commitment to preserve of the authors' names of this research if it is used

From where data/document is obtainable

A formal application letter to the health department of Shiraz University of Medical Sciences or email this letter to the liaison author of this research project, named Zahra Mehraein and E-mail: z.mehraein@gmail.com

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

A application letter must include the name of the applicant, used item, scientific title of the research project or article.

Comments