

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Effects of education on promoting environmental responsibility behaviors among female students of secondary school.

#### Protocol summary

##### Study aim

Effect of education on promoting environmental responsibility behaviors among female students of secondary school.

##### Design

In this study, 330 female secondary school students participated. Inclusion criteria: education at the first, second, and third grade secondary school and student's informed consent. Exclusion criteria: failure to complete the questionnaire and leave educational sessions. Participants were randomly selected from the first two secondary schools. A school with 165 students as a case group and another with 165 students were selected as the control group.

##### Settings and conduct

In the city of Ilam, with regard to the equality of the conditions, among eight single-shift secondary school, two schools were randomly selected. In the next step, randomly, the Shahadat school (with 165 students) was selected as the case group and Bennet al-Hoda school (with 165 students) as the control group. Therefore, the allocation of samples to groups was random, because the assignment of schools to case and control groups was done randomly. Inclusion criteria: education at the first, second, and third grade secondary school and student's informed consent. Exclusion criteria: failure to complete the questionnaire and leave educational sessions. In this study, educational intervention was designed based on pre-test data in the case group. Educational intervention was conducted in five sessions and each session was performed for 30 minutes. The content of the training includes environmental issues including water and energy conservation, waste disposal and wastewater, climate and air pollution, that were prepared by handbook, posters and educational pamphlets and provided to health instructor, parents and students. Methods such as lectures, face to face training, question and answer were used in educational sessions. Also, for more oral education, the virtual network was used. One

month after the intervention, students were evaluated for the second time.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: education at the first, second, and third grade secondary school and student's informed consent. Exclusion criteria: failure to complete the questionnaire and leave educational sessions.

##### Intervention groups

case group: In this study, educational intervention was designed based on pre-test data in the case group. Educational intervention was conducted in five sessions and each session was performed for 30 minutes. The content of the training includes environmental issues including water and energy conservation, waste disposal and wastewater, climate and air pollution, that were prepared by handbook, posters and educational pamphlets and provided to health instructor, parents and students. Methods such as lectures, face to face training, question and answer were used in educational sessions. Also, for more oral education, the virtual network was used. One month after the intervention, students were evaluated for the second time. At the end of the study, the intervention was presented to the control group.

##### Main outcome variables

Promoting responsible environmental behaviors

#### General information

##### Reason for update

##### Acronym

-

##### IRCT registration information

IRCT registration number: **IRCT20170722035225N1**  
Registration date: **2017-12-27, 1396/10/06**  
Registration timing: **retrospective**

Last update: **2017-12-27, 1396/10/06**

Update count: **0**

##### Registration date

2017-12-27, 1396/10/06

## Registrant information

### Name

mahdieh asadi

### Name of organization / entity

The Medical University of Ilam

### Country

Iran (Islamic Republic of)

### Phone

+98 64112564

### Email address

asadi-m@medilam.ac.ir

## Recruitment status

### Recruitment complete

## Funding source

Deputy of reserch in Ilam University of Medical Scinces

Dr .Behzad Badakhsh . Phone :08432235724 Email

:badakhsh\_b@medilam .ac.ir

## Expected recruitment start date

2017-01-04, 1395/10/15

## Expected recruitment end date

2017-08-11, 1396/05/20

## Actual recruitment start date

empty

## Actual recruitment end date

empty

## Trial completion date

empty

## Scientific title

Effects of education on promoting environmental responsibility behaviors among female students of secondary school.

## Public title

Effects of education on promoting environmental responsibility behaviors

## Purpose

Other

## Inclusion/Exclusion criteria

### Inclusion criteria:

Education at the first, second and third grade secondary school Student's informed consent

### Exclusion criteria:

Failure to complete the questionnaire Leave educational sessions

## Age

From **12 years** old to **16 years** old

## Gender

Female

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **330**

## Randomization (investigator's opinion)

N/A

## Randomization description

## Blinding (investigator's opinion)

Not blinded

## Blinding description

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Ilam University of Medical Sciences

##### Street address

Ilam University of Medical Sciences. Research Blvd. Ilam

##### City

Ilam

##### Province

Ilam

##### Postal code

6939177143

#### Approval date

2017-03-05, 1395/12/15

#### Ethics committee reference number

IR.MEDILAM.REC.1395.207

## Health conditions studied

### 1

#### Description of health condition studied

Promoting of environmental behaviors

#### ICD-10 code

-

#### ICD-10 code description

-

## Primary outcomes

### 1

#### Description

knowledge

#### Timepoint

Before intervention and one month after intervention

#### Method of measurement

Researcher-made questionnaire

### 2

#### Description

Attitude

#### Timepoint

Before intervention and one month after intervention

#### Method of measurement

Questionnaire

### 3

#### **Description**

Responsible environmental behavior

#### **Timepoint**

Before intervention and one month after intervention

#### **Method of measurement**

Questionnaire

## **Secondary outcomes**

### 1

#### **Description**

Responsible behavior

#### **Timepoint**

Before intervention and one month after intervention.

#### **Method of measurement**

Resercher -made questionnaire.

## **Intervention groups**

### 1

#### **Description**

case group: In this study, educational intervention was designed based on pre-test data in the case group. Educational intervention was conducted in five sessions and each session was performed for 30 minutes. The content of the training includes environmental issues including water and energy conservation, waste disposal and wastewater, climate and air pollution, that were prepared by handbook, posters and educational pamphlets and provided to health instructor, parents and students. Methods such as lectures, face to face training, question and answer were used in educational sessions. Also, for more oral education, the virtual network was used.

#### **Category**

Other

### 2

#### **Description**

Control group: At the end of the study, the intervention was presented to the control group.

#### **Category**

Other

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

girls secondary school for Shahadat

##### **Full name of responsible person**

Ms. Sidmoradi

##### **Street address**

Near Khadijeh Kobra High School. Islamic Republic

Blvd.

#### **City**

Ilam

#### **Province**

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#### **Postal code**

6931465479

#### **Phone**

+98 84 3335 0648

#### **Email**

asadi\_eh@yahoo.com

### 2

#### **Recruitment center**

##### **Name of recruitment center**

girls Secondary school for Bennet al-Hoda

##### **Full name of responsible person**

Ms. Pour Ebrahim

##### **Street address**

Ayatollah Heidari Street

##### **City**

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##### **Postal code**

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##### **Phone**

+98 84 3338 0796

##### **Email**

Kamy\_mehr60@yahoo.com

## **Sponsors / Funding sources**

### 1

#### **Sponsor**

##### **Name of organization / entity**

Ilam University of Medical Sciences

##### **Full name of responsible person**

Dr. Behzad Badakhsh

##### **Street address**

Babanjang. Ilam University of Medical Sciences.Reserch &Technology

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Ilam

##### **Province**

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##### **Postal code**

9639177143

##### **Email**

Asadi\_eh@yahoo.com

#### **Grant name**

#### **Grant code / Reference number**

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

Yes

#### **Title of funding source**

Ilam University of Medical Sciences

#### **Proportion provided by this source**

100

#### **Public or private sector**

Private  
**Domestic or foreign origin**  
Domestic  
**Category of foreign source of funding**  
*empty*  
**Country of origin**  
**Type of organization providing the funding**  
Academic

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**Web page address**

## Person responsible for general inquiries

### Contact

**Name of organization / entity**  
Ilam University of Medical Sciences  
**Full name of responsible person**  
Mahdieh Asadi  
**Position**  
Senior Health Education Student  
**Latest degree**  
Bachelor  
**Other areas of specialty/work**  
Environmental Health  
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## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**  
Ilam University of Medical Sciences  
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Dr. Zeinab Ghazanfari  
**Position**  
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**Other areas of specialty/work**  
Health Promotion  
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**Province**  
Ilam

## Person responsible for updating data

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**Full name of responsible person**  
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**Position**  
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**Latest degree**  
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**Other areas of specialty/work**  
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**Web page address**

## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

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

### Study Protocol

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

### Statistical Analysis Plan

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

### Informed Consent Form

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

### Clinical Study Report

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

### Analytic Code

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

### Data Dictionary

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