

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

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6931465479

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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

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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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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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Person responsible for general inquiries

Contact

Name of organization / entity
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Person responsible for updating data

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6931465479
Phone
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Fax
Email
asadi_m@medilam.ac.ir
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