

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

Comparison between face-to-face and virtual-based learning based on the theory-based by IBM and PMT models and the resulting effects on prevention of unsafe motorcycling behaviors among male students

Protocol summary

Study aim

Determination and comparison between face-to-face and virtual-based learning based on the theory-based by IBM and PMT models and the resulting effects on prevention of unsafe motorcycling behaviors.

Design

First, IBM and PMT models will be designed based on the various resources as well as needs assessment of the target group, which measure the components of the IBM and PMT models among university students. After obtaining the ethics code and the recommendation letter, the preliminary study, determination of the validity and reliability of the questionnaire, by referring to the universities, the target students are selected and then by using a self-acting method the questionnaires are given to them to get filled. Completed questionnaires are changed into the computer code and the most important preventive factors in motorcycle non-safe driving behavior get determined. The subject students are randomly divided into two groups of test and control using the statistical software. Based on the most prominent predictors of the IBM and PMT models identified in the pre-test phase, training contents are designed in the form of a pamphlet and a poster and are also prepared using educational applications produced for mobile use and then, according to the scheduled program, will intervene on the test group.

Settings and conduct

Visit to the universities of Sabzevar, and the selection of target students

Participants/Inclusion and exclusion criteria

1. Certified. 2. Being a student. 3. Having a motorcycle.

Intervention groups

The educational content is designed for the intervention group in the form of pamphlets, as well as educational software for use in the mobile and an intervention program is implemented. The routine training group

receives public media.

Main outcome variables

-Use helmet -Avoid doing motorbike demonstrations -
Respect for traffic laws -Observe speed limits for motorcycle driving

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181113041637N1**

Registration date: **2018-12-15, 1397/09/24**

Registration timing: **prospective**

Last update: **2018-12-15, 1397/09/24**

Update count: **0**

Registration date

2018-12-15, 1397/09/24

Registrant information

Name

Abolfazl Davarzani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 4492 4153

Email address

davarzania1@medsab.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-01-05, 1397/10/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between face-to-face and virtual-based learning based on the theory-based by IBM and PMT models and the resulting effects on prevention of unsafe motorcycling behaviors among male students

Public title

Investigating Motorcycle Risk Driving Behaviors

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

The subjects should be motorcyclists. Students selected are university students. Students should have used motorcycles for at least one year.

Exclusion criteria:

Those who do not have a motorcycle license. Individuals who complete their university year before graduation.

Age

From **18 years** old to **45 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Use of educational software products such as:JOAPP, MOVE MAKER for use in educational intervention.

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Sabzevar University of Medical Sciences

Street address

Shohadaye hasteyee Blvd., After the Memorial to the Unknown Martyrs

City

Sabzevar

Province

Razavi Khorasan

Postal code

9617913112

Approval date

2018-11-12, 1397/08/21

Ethics committee reference number

IR.MEDSAB.REC.1397.057

Health conditions studied**1****Description of health condition studied****ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Information

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

2**Description**

Motivation

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

3**Description**

Behavioral Skills

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

4**Description**

Self-efficacy

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

5

Description

Effectiveness of perceived response

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

6

Description

Perceived response cost

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

7

Description

Sensitivities

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

8

Description

Perceived severity

Timepoint

Immediately after intervention -1 months after intervention

Method of measurement

questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Students

Category

Prevention

2

Description

Control group: Students

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Universities of Sabzevar

Full name of responsible person

Abolfazi Davarzani

Street address

Azad University ave, Sabzevat town

City

Sabzevar

Province

Razavi Khorasan

Postal code

9618956878

Phone

+98 51 4144 2000

Email

pub@iaus.ac.ir

Web page address

<http://www.iaus.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Dr. Massoumeh Hashemian

Street address

Sabzevar

City

Sabzevar

Province

Razavi Khorasan

Postal code

9613873136

Phone

+98 51 4444 5648

Email

hashemianm@medsab.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Sabzevar University of Medical 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

Sabzevar University of Medical Sciences

Full name of responsible person

Dr. Massoumeh Hashemian

Position

Consultant

Latest degree

Ph.D.

Other areas of specialty/work

Health Promotion

Street address

Sabzevar

City

Sabzevar

Province

Razavi Khorasan

Postal code

9613873136

Phone

+98 51 4401 8357

Email

hashemianm@medsab.ac.ir

Web page address**Phone**

+98 51 4464 1504

Email

Davarzania1@medsab.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Abolfazl Davarzani

Position

Master Student

Latest degree

Bachelor

Other areas of specialty/work

Public Health

Street address

Shahid kaveh Str

City

Sabzevar

Province

Razavi Khorasan

Postal code

9618874964

Phone

+98 51 4492 4153

Email

Davarzania1@medsab.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Abolfazl Davarzani

Position

Master student

Latest degree

Bachelor

Other areas of specialty/work

Public Health

Street address

shariati Blvd, kaveh Str

City

Sabzevar

Province

Razavi Khorasan

Postal code

9618874964

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

Not applicable

Informed Consent Form

No - There is not 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

Not applicable

Data Dictionary

Not applicable