# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

16 Sep 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 determied. 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**
Abolfazl Davarzani
**Street address**
Azad University ave, Sabzevat town
**City**
Sabzevar
**Province**
Razavi Khorasan
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+98 51 4144 2000
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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
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**Province**
Razavi Khorasan
**Postal code**
9613873136
**Phone**
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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

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## Person responsible for scientific inquiries

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**Position**
Master student

**Latest degree**
Bachelor

**Other areas of specialty/work**
Public Health

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## Person responsible for updating data

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Public Health

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**Province**
Razavi Khorasan

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**Phone**
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**Email**
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## 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