

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 Jun 2026

### The effect of motion-graphic video-based training on students' knowledge, attitude and perception towards patient safety in operating room

#### Protocol summary

##### Study aim

Determining the effect of video-motion graphics based training on students' knowledge, attitude and perception towards patient safety in the operating room

##### Design

Clinical trial with control group, parallel groups, double-blind, randomized, on 80 students, random block generation software was used for randomization.

##### Settings and conduct

This study is conducted on the students of Shahrood University of Medical Sciences. Necessary trainings are sent to the intervention group via virtual space. It will be tried that the evaluator and the analyst are not aware of the information of the participants.

##### Participants/Inclusion and exclusion criteria

1. Students of the 6th semester and above in the field of operating room technology 2. Not participating in similar educational programs 3. Having access to ITA, IMO or Soroush communication software

##### Intervention groups

In the intervention group, they will receive 10 sessions of educational videos with motion graphics design, emphasizing the key points of patient safety based on international guidelines, including the following, through mobile phones twice a week using the communication software Imo, Ita or Soroush. In the control group, the researcher will conduct routine training for the educational content regarding patient safety in the usual way of lectures and discussions.

##### Main outcome variables

Knowledge, attitude and perception of students towards patient safety

#### General information

##### Reason for update

##### Acronym

#### IRCT registration information

IRCT registration number: **IRCT20230911059401N2**

Registration date: **2024-08-15, 1403/05/25**

Registration timing: **prospective**

Last update: **2024-08-15, 1403/05/25**

Update count: **0**

#### Registration date

2024-08-15, 1403/05/25

#### Registrant information

##### Name

majid bagheri

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 23 3251 2173

##### Email address

majidbagheri.96913@gmail.com

#### Recruitment status

**Recruitment complete**

#### Funding source

#### Expected recruitment start date

2024-09-22, 1403/07/01

#### Expected recruitment end date

2025-07-21, 1404/04/30

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The effect of motion-graphic video-based training on students' knowledge, attitude and perception towards

patient safety in operating room

### Public title

The effect of motion-graphic video-based training on students' knowledge, attitude and perception towards patient safety in operating room

### Purpose

Other

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Students of the 6th semester and above in the field of operating room technology Not participating in similar educational programs Having access to ETA, IMO or Soroush communication software

#### Exclusion criteria:

Absence of more than one training session Incomplete answers to questionnaires

### Age

No age limit

### Gender

Both

### Phase

N/A

### Groups that have been masked

- Investigator
- Data analyser

### Sample size

Target sample size: **80**

### Randomization (investigator's opinion)

Randomized

### Randomization description

To allocate the samples, the block randomization method will be used with the block size of 4, so that by using the random number generation software in the block method, the randomization sequence will be produced according to the required sample size for two groups.

### Blinding (investigator's opinion)

Double blinded

### Blinding description

The evaluator of the study will not be informed of the random allocation and groupings, also in the statistical file and questionnaires, the groups are identified as codes, and the analyst will not be informed of the code allocation to the groups.

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Shahrood University of Medical

Sciences

#### Street address

Tehran Street

#### City

shahroud

#### Province

Semnan

#### Postal code

3614773943

#### Approval date

2024-07-20, 1403/04/30

#### Ethics committee reference number

IR.SHMU.REC.1403.064

## Health conditions studied

### 1

#### Description of health condition studied

Students' attitudes towards patient safety in the operating room

#### ICD-10 code

#### ICD-10 code description

### 2

#### Description of health condition studied

Students' knowledge of patient safety in the operating room

#### ICD-10 code

#### ICD-10 code description

### 3

#### Description of health condition studied

Students' perception of patient safety in the operating room

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Students' knowledge of patient safety in the operating room

#### Timepoint

Before the intervention, immediately after the intervention and 3 months after the intervention

#### Method of measurement

Questionnaire of students' knowledge, attitude and perception towards patient safety

### 2

#### Description

Students' attitudes towards patient safety in the operating room

#### Timepoint

Before the intervention, immediately after the intervention and 3 months after the intervention

### Method of measurement

Questionnaire of students' knowledge, attitude and perception towards patient safety

### 3

#### Description

Students' perception of patient safety in the operating room

#### Timepoint

Before the intervention, immediately after the intervention and 3 months after the intervention

#### Method of measurement

Questionnaire of students' knowledge, attitude and perception towards patient safety

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: In the intervention group, they will receive 10 sessions of educational videos with motion graphics design, emphasizing the key points of patient safety based on international guidelines, including the following, through mobile phones twice a week using the communication software Imo, Ita or Soroush. did 1. Medication errors, including prescribing the wrong medication, incorrect dosage, or prescribing medication to patients with allergies or contraindications, mistakes in preparation, labeling, etc. 2. Incidents related to patient safety in the operating room caused by equipment defects 3. Types of individual human errors in the operating room 4. Potential physical injuries 5. Patient positioning injuries 6. Damage caused by radiation 7. Damage caused by surgical items remaining in the patient's body 8. Injuries caused by falls, burns and pressure 9. Damage caused by fire and electrical damage 10. Medical errors

#### Category

Other

### 2

#### Description

Control group: In the control group, the researcher will conduct routine training for the educational content regarding patient safety in the usual way of lectures and discussions.

#### Category

Other

## Recruitment centers

### 1

#### Recruitment center

Name of recruitment center

Shahroud University of Medical Sciences

#### Full name of responsible person

Majid Bagheri

#### Street address

Tehran Street

#### City

Shahroud

#### Province

Semnan

#### Postal code

3614773943

#### Phone

+98 23 3239 5054

#### Email

info@shmu.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Shahroud University of Medical Sciences

##### Full name of responsible person

Majid Bagheri

##### Street address

Tehran Street

##### City

Shahroud

##### Province

Semnan

##### Postal code

3655117701

##### Phone

+98 23 3239 5054

##### Email

info@shmu.ac.ir

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Shahroud 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

Shahroud University of Medical Sciences

##### Full name of responsible person

Majid Bagheri  
**Position**  
Faculty instructor  
**Latest degree**  
Master  
**Other areas of specialty/work**  
Nursery  
**Street address**  
Tehran street  
**City**  
Shahroud  
**Province**  
Semnan  
**Postal code**  
3655117701  
**Phone**  
+98 23 3239 5054  
**Email**  
majidbagheri.96913@gmail.com

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**  
Shahroud University of Medical Sciences  
**Full name of responsible person**  
Majid Bagheri  
**Position**  
Faculty instructor  
**Latest degree**  
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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Shahroud University of Medical Sciences  
**Full name of responsible person**

Majid Bagheri  
**Position**  
Faculty instructor  
**Latest degree**  
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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

### Study Protocol

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Not applicable

### Analytic Code

Not applicable

### Data Dictionary

Not applicable

### Title and more details about the data/document

All data can be shared after masking the participants.

### When the data will become available and for how long

After publishing the results

### To whom data/document is available

People working in universities of medical sciences

### Under which criteria data/document could be used

There are no other conditions.

### From where data/document is obtainable

People can send their request to the e-mail of researchers. majidbagheri@shmu.ac.ir

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

People should send their request type carefully. With the consent of the research team, the requested items will be sent to them.

### Comments