

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 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

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3655117701

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Email

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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
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Person responsible for scientific inquiries

Contact

Name of organization / entity
Shahroud University of Medical Sciences
Full name of responsible person
Majid Bagheri
Position
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Latest degree
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Other areas of specialty/work
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Person responsible for updating data

Contact

Name of organization / entity
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Full name of responsible person

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Email
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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