Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Nov 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
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 updating data

Contact

Name of organization / entity
Shahroud University of Medical Sciences

Full name of responsible person
Majid Bagheri

Position
Faculty instructor

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Master

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Nursery

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3655117701

Phone
+98 23 3239 5054

Email
majidbagheri.96913@gmail.com

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