

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of three simulation training methods based on scenario and retelling sessions, training using educational films and question and answer system and lecture method and question and answer system in improving non-technical skills of anesthesia students

Protocol summary

Study aim

Comparison of three simulator training methods based on scenario and retelling sessions, training using educational videos and question and answer system and lecture method and question and answer system in improving students' non-technical skills

Design

For example: a clinical trial with a control group, with parallel groups, a blind strain, randomized, on 100 students. A random table was used for randomization

Settings and conduct

In order to train the students in the simulation group, help is taken from the operating room environment, and the students receive training on a mock-up by attending an inactive operating room. The group receives the lecture method and video viewing in a classroom environment that has computer systems as many students as possible. Computer systems provide the possibility of doing the question and answer method.

Participants/Inclusion and exclusion criteria

Anesthesia students of Hamadan University of Medical Sciences who have completed the 3rd semester of study and have successfully passed the 2nd anesthesia unit

Intervention groups

Students are divided into four groups. These groups will experience different trainings to improve non-technical skills: The first group, which is the control group, will not experience any training. The second group uses the simulation method based on scenarios and debriefing sessions to teach non-technical skills. The third group will benefit from the method of educational films and the question and answer system in a classroom environment that has a computer system for the number of students, and the fourth group will benefit from the lecture method and the question and answer system in improving non-technical skills.

Main outcome variables

Non-technical skills

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230812059123N1**

Registration date: **2023-09-05, 1402/06/14**

Registration timing: **prospective**

Last update: **2023-09-05, 1402/06/14**

Update count: **0**

Registration date

2023-09-05, 1402/06/14

Registrant information

Name

pegah arman

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 1014

Email address

p.arman@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-09-23, 1402/07/01

Expected recruitment end date

2024-09-22, 1403/07/01

Actual recruitment start date

empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title

Comparison of three simulation training methods based on scenario and retelling sessions, training using educational films and question and answer system and lecture method and question and answer system in improving non-technical skills of anesthesia students

Public title

Comparison of three simulator training methods based on scenario and retelling sessions, training using educational videos and question and answer system and lecture method and question and answer system in improving students' non-technical skills

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Anesthesia student at Hamedan University of Medical Sciences Passing at least 3 academic semesters at Hamadan University of Medical Sciences Obtaining a passing grade in anesthesia course 2

Exclusion criteria:

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization, which is done individually and uses the randomization table. In this way, qualified students are selected to participate in this. research. Each of them is randomly assigned a relative number, and in order to randomize each of these people, they are randomly classified into different groups by choosing numbers

Blinding (investigator's opinion)

Single blinded

Blinding description

After training the students, the evaluator does not know what training each student received

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Hamedan University of Medical Sciences, Shahid Fahmideh St

City

Hamedan

Province

Hamadan

Postal code

6517838765

Approval date

2023-08-05, 1402/05/14

Ethics committee reference number

IR.UMSHA.REC.1402.363

Health conditions studied

1

Description of health condition studied

Non-technical skills in anesthesia students of Hamadan University of Medical Sciences

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Non-technical skills in anesthesia students that can improve their skills and reduce errors in the anesthesia team.

Timepoint

7 days after training

Method of measurement

Questionnaire of non-technical skills in anesthesia group

Secondary outcomes

empty

Intervention groups

1

Description

The first intervention group: they experience scenario-based simulation training and debriefing sessions in non-technical skills. The second intervention group: they experience training using educational videos and

question and answer system, and the third group experiences the lecture method and question and answer system, and the control group does not receive any training method.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Hamedan University of Medical Sciences

Full name of responsible person

Pegah Arman

Street address

Hamedan University of Medical Sciences, Shahid Fahmideh St

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pegah.arman96@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Fereshteh Aslani

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Grant name

Grant code / Reference number

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

No

Title of funding source

Hamedan University of Medical Sciences

Proportion provided by this source

50

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

Hamedan University of Medical Sciences

Full name of responsible person

Pegah Arman

Position

Coach

Latest degree

Master

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available
Justification/reason for indecision/not sharing IPD
A group presentation can be more effective
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
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available
Title and more details about the data/document
The obtained data are published in the form of group comparison. The information is provided after deidentifying the individuals and includes the main outcome review.
When the data will become available and for how long
Access starts from 2031
To whom data/document is available
The access of anesthesia department teachers is allowed
Under which criteria data/document could be used
The use of data in the course of student education is permitted, its use in the context of review studies is permitted; Data can be used in review studies. In this context, university lecturers and educational researchers can receive by providing documentation.
From where data/document is obtainable
You can access the data by referring to Room 4, Department of anesthesia, Faculty of Paramedicine, Hamedan University of Medical Sciences or by sending an email to the mentioned address.
What processes are involved for a request to access data/document
By sending an email to Pegah Arman and stating the reason for the request, he can use or access the data with an acceptable and effective reason for the education and care of patients.
Comments