

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Sep 2026

Comparison of the effect of E-learning (webinar) and gamification training based on the model of nursing "Promoting psychological security and empowerment" on the knowledge and attitude of nurses in the process of caring candidates for organ donation

Protocol summary

Study aim

Comparison of the effect of E-learning (webinar) and gamification training based on the model of nursing "Promoting psychological security and empowerment" on the knowledge and attitude of nurses in the process of caring candidates for organ donation

Design

The study has a control group, with parallel groups, a single blind, Simple randomization on 45 participants.

Settings and conduct

The location of the study will be intensive care units of sabzevar and esfarayen. For the intervention groups, E-learning and gamification training will be done. The questionnaire will be presented to the participants before and immediately after the intervention.

Participants/Inclusion and exclusion criteria

Inclusion criteria: having at least one encounter with a brain-dead patient, not receiving previous training and interests. Exclusion criteria: Nurses who have less than one month left in their plan period. They have the possibility of changing the workplace from the intensive care unit or transferring to another city.

Intervention groups

For the intervention group (E-learning; webinar), didactic files and two training sessions in the form of a pre-recorded video for two hours based on the dimensions of the model "Improving mental security and empowering nurses" will be presented on the website of SUMS. For the intervention group (gamification training); First, didactic files based on the dimensions of the model "Improving mental security and empowering nurses" are presented and then the email address will be provided as a link to this group, which includes 6 scenarios and each scenario has 4 questions, at the end, if the participant has answered less than 70% of the questions correctly, warning of participate again will be appear and the

participant must reach the limit of determined score. No intervention will be done for the control group.

Main outcome variables

Knowledge and attitude of nurses

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231226060534N1**

Registration date: **2024-01-28, 1402/11/08**

Registration timing: **retrospective**

Last update: **2024-01-28, 1402/11/08**

Update count: **0**

Registration date

2024-01-28, 1402/11/08

Registrant information

Name

meysam porhossein

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 58 3721 3338

Email address

porhosseinm99@medsab.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-01-04, 1402/10/14

Expected recruitment end date

2024-01-14, 1402/10/24

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of the effect of E-learning (webinar) and gamification training based on the model of nursing "Promoting psychological security and empowerment" on the knowledge and attitude of nurses in the process of caring candidates for organ donation

Public title
Comparison of the effect of E-learning (webinar) and gamification training based on the model of nursing "Promoting psychological security and empowerment" on the knowledge and attitude of nurses in the process of caring candidates for organ donation

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Having at least one encounter with a brain dead patient
Lack of previous training in this field Interested in participating in research
Exclusion criteria:
Nurses who are in plan period and have less than one month left of their plan period They have the possibility of changing the workplace from the intensive care units, or transferring to another city

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: 45

Randomization (investigator's opinion)
Randomized

Randomization description
Because nurses are supposed to be divided into three different groups, the webinar training group, the gamification training group, and the control group (without training), and the number of nurses employed in all three hospitals that also have the criteria for entering this study is not high, therefore, it is not possible to randomly divide nurses into three groups in every hospital. Interventions may influence each other. Therefore, by using simple randomization and drawing lots, each hospital will be assigned to check one of these three methods randomly.

Blinding (investigator's opinion)
Single blinded

Blinding description
Because the participants (nurses) in this research work in

three hospitals; Therefore, each hospital will be assigned to a group randomly that the method of blinding is single-blind, and the participants do not know about their research group.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Sabzevar University of Medical Sciences

Street address

Building A, University of Medical Sciences compound, Shohadaye hastei boulevard, Sabsevar Town

City

Sabzevar

Province

Razavi Khorasan

Postal code

9617913114

Approval date

2022-12-17, 1401/09/26

Ethics committee reference number

IR.MEDSAB.REC.1401.074

Health conditions studied

1

Description of health condition studied

Candidates for organ donation

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The knowledge score in the researcher maded questionnaire; Comparison of the knowledge and attitude of nurses in the process of caring candidates for organ donation

Timepoint

Before the start of the intervention and 7 and 30 days after the start of the intervention

Method of measurement

The researcher maded questionnaire; Comparison of the knowledge and attitude of nurses in the process of caring candidates for organ donation

2

Description

The attitude score in the researcher made questionnaire; Comparison of the knowledge and attitude of nurses in the process of caring candidates for organ donation

Timepoint

Before the start of the intervention and 7 and 30 days after the start of the intervention

Method of measurement

The researcher made questionnaire; Comparison of the knowledge and attitude of nurses in the process of caring candidates for organ donation

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: For the first intervention group (E-learning; webinar): didactic files and two training sessions in the form of a pre-recorded video for two hours based on the dimensions of the model "Improving mental security and empowering nurses" will be presented through the personnel system on the website of SUMS

Category

Other

2

Description

Intervention group: For the second intervention group (gamification training): First, didactic files based on the dimensions of the model "Improving mental security and empowering nurses" are presented and then the email address will be provided as a link to this group, which includes 6 scenarios and each scenario has 4 questions, at the end, if the participant has answered less than 70% of the questions correctly, warning of participate again will be appear and the participant must reach the limit of determined score.

Category

Other

3

Description

Control group: No intervention will be done for the control group.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid beheshti hospital

Full name of responsible person

Hamid Soltanpoor

Street address

Parastar Ave., Taleqani Ave., Razi Blvd., Sabzevar Town

City

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Razavi Khorasan

Postal code

9617913112

Phone

+98 51 4464 0115

Email

info@medsab.ac.ir

2

Recruitment center

Name of recruitment center

Vasei hospital

Full name of responsible person

Ali Afchangi

Street address

Shahid fahmideh Square., Shohadaye hastei Blvd., Sabzevar Town

City

Sabzevar

Province

Razavi Khorasan

Postal code

9617913112

Phone

+98 51 4401 4011

Email

info@medsab.ac.ir

3

Recruitment center

Name of recruitment center

Emam Khomeini hospital

Full name of responsible person

Amir Dehghan

Street address

Abu Ali Sina Square., Imam Reza Ave

City

Esfarayen

Province

North Khorasan

Postal code

9461758341

Phone

+98 58 3722 6003

Email

education@nkums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Mohammad Salari

Street address

Building A, University of Medical Sciences compound,
Shohadaye hastei boulevard, Sabsevar Town

City

Sabzevar

Province

Razavi Khorasan

Postal code

9617913114

Phone

+98 51 4401 8446

Email

info@medsab.ac.ir

Web page address

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

Meysam Porhossein

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

Street address

Building A, University of Medical Sciences compound,
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Postal code

9669153889

Phone

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Email

meysamporhossein8@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Meysam Porhossein

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

Street address

Building A, University of Medical Sciences compound,
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Email

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Person responsible for updating data

Contact

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Meysam Porhossein

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

Street address

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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	be shared after de-identification.
Study Protocol	When the data will become available and for how long
Yes - There is a plan to make this available	From 12/1/1402
Statistical Analysis Plan	To whom data/document is available
Yes - There is a plan to make this available	All participants of triple groups
Informed Consent Form	Under which criteria data/document could be used
Yes - There is a plan to make this available	After finishing the study
Clinical Study Report	From where data/document is obtainable
Yes - There is a plan to make this available	Meysam Porhossein 09158881494
Analytic Code	meysamporhossein8@gmail.com
Yes - There is a plan to make this available	What processes are involved for a request to access data/document
Data Dictionary	By calling 09158881494 and sending documents to them
Yes - There is a plan to make this available	Comments
Title and more details about the data/document	
Educational files will be shared at the end. All data can	