Clinical Trial Protocol
Iranian Registry of Clinical Trials

20 Oct 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 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

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

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Sabzevar

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Razavi Khorasan

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Phone
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Email
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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

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9617913112

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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

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

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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
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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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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

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Educational files will be shared at the end. All data can be shared after de-identification.

When the data will become available and for how long

From 12/1/1402

To whom data/document is available

All participants of triple groups

Under which criteria data/document could be used

After finishing the study

From where data/document is obtainable

Meysam Porhossein 09158881494
meysamporhossein8@gmail.com

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

By calling 09158881494 and sending documents to them

Comments