

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Investigating the effectiveness of advanced care virtual training based on the theory of planned behavior on the knowledge, attitude and behavior of emergency nurses

Protocol summary

Study aim

Determining the effectiveness of advanced care planning virtual training based on the theory of planned behavior on the knowledge, attitude and behavior of emergency nurses

Design

In this research, random sampling method will be used and based on SPSS version 26 software, the test mean is 80.8 and the standard deviation is 14.6 in the test group and the mean is 70.4 and the standard deviation is 14.6 in the control group and the effect size is 7. /. The number of required sample volume in each group was calculated to be 34 people, which, taking into account the loss of 10% of the sample volume, the required number for each group will be calculated to be 38 people. The nurses of the emergency department of Baqiyallah Hospital (AS) will be randomly placed in two groups of test and control, which will be calculated according to the sample formula of 38 people in each group. And after introducing and explaining the research plan to them, people who have the desire and ability to participate in the plan according to the study entry criteria will enter the study, and after obtaining consent, the nurses of the test group and the control group will complete the pre-test questionnaire.

Settings and conduct

Emergency Department of Baqiyatullah Hospital (Aj)

Participants/Inclusion and exclusion criteria

Inclusion criteria: • at least bachelor of nursing • At least 1 year of work experience in the emergency department
Exclusion criteria: • Unwillingness to continue cooperation in the study

Intervention groups

Emergency department nurses

Main outcome variables

Knowledge, attitude and behavior of nurses

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200120046207N1**

Registration date: **2023-10-25, 1402/08/03**

Registration timing: **prospective**

Last update: **2023-10-25, 1402/08/03**

Update count: **0**

Registration date

2023-10-25, 1402/08/03

Registrant information

Name

salman barasteh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6686 4275

Email address

s.barasteh@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-11-06, 1402/08/15

Expected recruitment end date

2024-11-05, 1403/08/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effectiveness of advanced care virtual training based on the theory of planned behavior on the knowledge, attitude and behavior of emergency nurses

Public title

the effectiveness of advanced care virtual training based on the theory of planned behavior on the knowledge, attitude and behavior of nurses

Purpose

Health service research

Inclusion/Exclusion criteria**Inclusion criteria:**

Bachelor of Nursing and at least 1 year of work experience in the emergency department

Exclusion criteria:**Age**

From **22 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Care provider
- Outcome assessor
- Data analyser

Sample size

Target sample size: **68**

Randomization (investigator's opinion)

Randomized

Randomization description

We will use randomization in blocks of four. The randomization units in this study will be on emergency department nurses. Random allocation with blocks of four will be in two intervention and control groups. The random allocation method with blocks of four will be such that the letter A will be assigned to the intervention group and the letter B will be assigned to the control group, and in blocks of four with the letters A and B, six states AABB, BBAA, ABAB, BABA, ABBA, BAAB in the sheets It will be written separately and thrown inside a container. Randomly take one of these sheets out of the container and remember the combination written on it, and that sheet will be thrown into the container again. Because the sample size in this study will be 80 nurses. This action is repeated 20 times and each time the combination written on the sheet will be written in the sequence of the previous sheet and then a number from 1 to 80 will be assigned to each letter in the order of the letters written in a row. Each letter was placed inside a matte envelope and the numbers 1-80 were written on the envelope. Each time a patient was selected, one of these envelopes was opened in the order of the number written on the envelope, and it was determined which group the patient should be placed in.

Blinding (investigator's opinion)

Double blinded

Blinding description

Blinding will be performed on three levels: the participants, the person who evaluates the results before

and after the test, and the statistician. In this study, the participants, i.e. the nurses, will not know which of the intervention groups they are in. The trainer will not know which group of nurses participating in the study he is training. The final information of the test and control groups will be provided to the statistician in the form of groups A and B.

Placebo

Not used

Assignment

Other

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Research Ethics Committees of Baqiyatullah Hospital

Street address

Molla Sadra St., Sheikh Bahai St., Baqiyatullah University of Medical Sciences (AS)

City

Tehran

Province

Tehran

Postal code

1435916471

Approval date

2023-08-14, 1402/05/23

Ethics committee reference number

IR.BMSU.BAQ.REC.1402.048

Health conditions studied**1****Description of health condition studied**

Emergency department nurses' knowledge, attitude and behavior of advance care planning

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

The level of knowledge, attitude and behavior of emergency department nurses of advanced care planning

Timepoint

three weeks

Method of measurement

Advance care planning knowledge, attitude and behavior tool

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Teaching advanced care planning knowledge, attitude and behavior

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Baqiyatallah Hospital

Full name of responsible person

salman barasteh

Street address

South Eskandari St., Imam Khomeini St., cul-de-sac of Haft Dazat

City

Tehran

Province

Tehran

Postal code

13198447181

Phone

+98 21 6655 2421

Email

s.barasteh@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Bagheiat-allah University of Medical Sciences

Full name of responsible person

salman barasteh

Street address

South Eskandari St., Imam Khomeini St., cul-de-sac of Haft Dazat

City

Tehran

Province

Tehran

Postal code

1319847181

Phone

+98 21 8670 5503

Email

s.barasteh@gmail.com

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Bagheiat-allah 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

Bagheiat-allah University of Medical Sciences

Full name of responsible person

salman barasteh

Position

assistant professor of nursing

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

South Eskandari St., Imam Khomeini St., cul-de-sac of Haft Dazat

City

Tehran

Province

Tehran

Postal code

1319847181

Phone

+98 21 5565 1743

Email

s.barasteh@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Bagheiat-allah University of Medical Sciences

Full name of responsible person

salman barasteh

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assistant professor of nursing

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Ph.D.

Other areas of specialty/work

Nursery

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Phone
+98 21 5654 2514
Email
s.barasteh@gmail.com

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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

The prepared educational package will be provided to the nurses participating in the study if they wish.

When the data will become available and for how long

From 1403 to 1408

To whom data/document is available

all people

Under which criteria data/document could be used

for education of nurses

From where data/document is obtainable

salman barasteh s.barasteh@gmail.com

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

After applying through email and signing the pledge, it will be sent to people.

Comments

Person responsible for updating data

Contact

Name of organization / entity
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Full name of responsible person
salman barasteh
Position
assistant professor of nursing
Latest degree
Ph.D.
Other areas of specialty/work
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Email