

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jul 2026

Comparison of the Effect of Lecture and Jigsaw Training on Nurses' Attitude towards Delirium and the Ability to Screen for Delirium in the Intensive Care Unit

Protocol summary

Study aim

Comparison of the effect of lecture and jigsaw training on nurses' attitudes towards delirium and the ability to screen for delirium in intensive care units.

Design

A parallel, unblinded, two-group, randomized clinical trial

Settings and conduct

Two groups are determined through simple randomization with the help of Excel software and random number function. At first, the demographic information questionnaire and delirium attitude assessment are completed by the samples. To check the ability of delirium screening, 3 clinical scenarios will be provided to each nurse and the nurse will score each patient based on the tool. Then, the intervention including the jigsaw method training program will be presented for 4 sessions in groups of 3 to 5 nurses and in the lecture group for 2 sessions, and the questionnaires will be completed again and the scores will be compared. The study is carried out in the ICUs of hospitals affiliated to Shahid Beheshti University of Medical Sciences.

Participants/Inclusion and exclusion criteria

Inclusion criteria: - Have at least a bachelor's degree in nursing - Have at least one year of clinical work experience in the intensive care unit - They have not completed a training course related to delirium in the past year
Exclusion criteria: - Leave the intensive care unit before completing the study for any reason - Have not completed the questionnaires completely - Absence of more than one session during the presentation of the educational program

Intervention groups

The interventions include the implementation of delirium training by the jigsaw method for nurses in one group and training by the lecture method in another group.

Main outcome variables

- The attitude of nurses towards delirium - Screening ability of nurses in the diagnosis of delirium in ICU

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230301057573N1**

Registration date: **2023-03-23, 1402/01/03**

Registration timing: **prospective**

Last update: **2023-03-23, 1402/01/03**

Update count: **0**

Registration date

2023-03-23, 1402/01/03

Registrant information

Name

Syede Mohadese Nabizade

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 13 4223 5821

Email address

mohadesenabizade@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-04-04, 1402/01/15

Expected recruitment end date

2023-06-05, 1402/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Comparison of the Effect of Lecture and Jigsaw Training on Nurses' Attitude towards Delirium and the Ability to Screen for Delirium in the Intensive Care Unit

Public title
Investigating the effect of lecture and jigsaw training on nurses' attitudes towards delirium and the ability to screen for delirium.

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Have at least a bachelor's degree in nursing Have at least one year of clinical work experience in the intensive care unit They have not completed a training course related to delirium in the past year Due to the importance of having at least one year of work experience in the ICU, the age of entering the study is 23 years and older.
Exclusion criteria:
Leave the intensive care unit before completing the study for any reason Have not completed the questionnaires completely Absence of more than one session during the presentation of the educational program

Age
From **23 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **80**

Randomization (investigator's opinion)
Randomized

Randomization description
Simple randomization is done using Excel software and random number function. One hospital is selected for the first intervention group (jigsaw training) and the other hospital for the second group (lecture training). Random allocation will be done by the method of random sequence generation by random number table in Excel software. In the Excel software page, the left column, the total number of participants shows that there are 80 people in the present study. The next column indicates the group to which the participants belong, using which the top half will eventually belong to group A and the bottom half to group B. In the following, after identifying the people in two groups, to cover the allocation to the two groups, two dark and closed and completely similar envelopes are used, in one envelope the name of hospital A and in the second envelope, the name of hospital B is written and randomly one The envelope is selected and the selected hospital is selected for the first intervention (jigsaw) and accordingly the second hospital

is selected for the second intervention (lecture).

Blinding (investigator's opinion)
Not blinded

Blinding description
Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Research Ethics Committees of School of Pharmacy and Nursing & Midwifery- Shahid Beheshti University
Street address
Shahid Chamran Highway, Yemen Street - Shahid Arabi Street, next to Ayatollah Taleghani Hospital - Shahid Beheshti University of Medical Sciences
City
Tehran
Province
Tehran
Postal code
1985717443

Approval date
2023-01-24, 1401/11/04

Ethics committee reference number
IR.SBMU.PHARMACY.REC.1401.231

Health conditions studied

1

Description of health condition studied
Delirium in the intensive care unit

ICD-10 code
F13.221

ICD-10 code description
Sedative, hypnotic or anxiolytic dependence with intoxication delirium

Primary outcomes

1

Description
Nurses' attitude score towards delirium

Timepoint
At the beginning of the study (before the start of the intervention) and four weeks after the intervention.

Method of measurement
The instrument of nurses' attitude towards delirium includes 38 items with a 1-5 Likert scale (from completely disagree to completely agree) and has four

areas of knowledge, ability and self-confidence, ability to identify and understand the consequences, desire to know more and burden of care. In this questionnaire, the minimum score is 38 and the maximum score is 190.

2

Description

Nursing Delirium Screening Scale

Timepoint

At the beginning of the study (before the start of the intervention) and four weeks after the intervention.

Method of measurement

The delirium screening nursing tool have 5 dimensions, including impaired consciousness, inappropriate behavior, inappropriate communication, perceptual sensory error/hallucinations, psychomotor delay, each dimension is scored from 0 to 2 based on the conditions.

Secondary outcomes

empty

Intervention groups

1

Description

The first intervention group (lecture): In this group, education related to delirium includes the definition and types of delirium in the ICUs, identification methods of delirium, important interventions in the prevention and care of patients, and appropriate treatment and care methods, etc. for two sessions of 30 minutes. It is presented to nurses through a lecture and PowerPoint and movie screening by the researcher.

Category

Other

2

Description

The second intervention group: in the jigsaw learning method, nurses are divided into groups of 3 to 5 people. Delirium topics are presented in 4 sessions of 30 minutes. Every week, according to the PowerPoint chapter and educational video designed, nurses will be informed about the topic and all members of the group will study the desired topic. After the meeting, one group leader will be selected from each group and the educational content will be presented to them through the researcher. Then the specified members of each group will form a group of experts together and will review the desired educational topic with their participation and have a comprehensive review of the concepts of the topic and master the components of the topic in the presence of the researcher. The group will return and present the concepts to their group members, and then the researcher will summarize the topics and this process will continue for four weeks.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Hossein Hospital

Full name of responsible person

Seyede Mohadese Nabizade

Street address

Imam Hossein Square, the beginning of Shahid Madani Street, Imam Hossein Hospital

City

Tehran

Province

Tehran

Postal code

1617763141

Phone

+98 21 7755 8001

Email

mohadesenabizade@sbm.ac.ir

2

Recruitment center

Name of recruitment center

Shohadaye Tajrish Hospital

Full name of responsible person

Seyede Mohadese Nabizade

Street address

Tajrish Square - ShohadayeTajrish Hospital

City

Tehran

Province

Tehran

Postal code

19899 34148

Phone

+98 21 25719

Email

pr_shohada@sbm.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Afshin Zarghie

Street address

Shahid Chamran Highway - Yemen Street - next to Taleghani Hospital - Shahid Beheshti University of Medical Sciences

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 2243 9770

Email

mohadesenabizade@sbm.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Shahid Beheshti 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**

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Neda Sanaie

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Valiasr Street, Hashemi Rafsanjani Intersection, in front of Shahid Rajaei Heart Hospital, Faculty of Nursing and Midwifery

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 8865 5366

Email

nedasanaie@sbm.ac.ir

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Neda Sanaie

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Valiasr Street, Hashemi Rafsanjani Intersection, in front of Shahid Rajaei Heart Hospital, Faculty of Nursing and Midwifery

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 8865 5366

Email

nedasanaie@sbm.ac.ir

Person responsible for updating data**Contact****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Neda Sanaie

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Valiasr Street, Hashemi Rafsanjani Intersection, in front of Shahid Rajaei Heart Hospital, Faculty of Nursing and Midwifery

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 8865 5366

Email

nedasanaie@sbm.ac.ir

Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be 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 result of data analysis of all participants in the study

When the data will become available and for how long**long**

After publish

To whom data/document is available

researchers

Under which criteria data/document could be used

no person

From where data/document is obtainable

Send email to the correspond author of the article

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

About a week

Comments