

# 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**