

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jun 2026

The effects of nursing interventions on prevention of delirium in patients admitted to intensive care unit

Protocol summary

Study aim

Determining the effect of nursing care on delirium prevention in patients admitted to intensive care units

Design

This study is a randomized controlled clinical trial that will be done on 60 patients.

Settings and conduct

The aim of this study is to evaluate the effect of nursing care on Delirium prevention in patients admitted to the intensive care unit of Shahid Beheshti Hospital in Hamadan. In the intervention group, educational interventions for the prevention of delirium will be lectures and booklets for nurses. Also, the posters for training on prevention of delirium and its evaluation in the department will be installed. There is no action in the control group, and ICU's usual care will be taken in the past.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age over 18 years, GCS score higher than 12 Exclusion criteria: Having drug addiction, Having chronic underlying disease

Intervention groups

In the intervention group, educational interventions for the prevention of delirium will be delivered as lectures and booklets for nurses. Also, the posters for training on prevention of delirium and its evaluation in the unit will be installed. There is no action in the control group, and ICU's usual care will be taken in the past.

Main outcome variables

Delirium

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160110025929N11**

Registration date: **2018-04-13, 1397/01/24**

Registration timing: **registered_while_recruiting**

Last update: **2018-04-13, 1397/01/24**

Update count: **0**

Registration date

2018-04-13, 1397/01/24

Registrant information

Name

Mehdi Molavi Vardanjani

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 81 3422 5056

Email address

m.molavi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-03-21, 1397/01/01

Expected recruitment end date

2019-03-21, 1398/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of nursing interventions on prevention of delirium in patients admitted to intensive care unit

Public title

effects of nursing interventions on prevention of delirium

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Age over 18 years Satisfaction to participate in the study

GCS score higher than 12

Exclusion criteria:

Having Drug Addiction Having chronic underlying disease

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomly, 60 patients are selected. Then, using simple randomization method, they will be divided equally in to two groups of intervention and control.

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

Ethics Committee of Hamadan University of Medical Sciences

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

City

Hamedan

Province

Hamadan

Postal code

38698-65178

Approval date

2017-11-28, 1396/09/07

Ethics committee reference number

IR.UMSHA.REC.1396.587

Health conditions studied

1

Description of health condition studied

Delirium

ICD-10 code

F05

ICD-10 code description

Delirium due to known physiological condition

Primary outcomes

1

Description

Delirium

Timepoint

Before and after intervention

Method of measurement

CAM-ICU Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In the intervention group, nursing care for the prevention of delirium, which consists of three components, professional, environmental and related to the patient, will be carried out. The components of the professional component include training the personnel in relation to the definition and causes of the delirium ICU, the method of examining and diagnosis of delirium, and how to deal with a patient with delirium and ways to prevent delirium in ICU patients, first training in a two-hour session The lectures are provided for nurses and then the materials are provided in the form of a booklet. Also, the poster for the training of Delirium Prevention and Delirium Step-by-Step Assessment and Detection will be also provided. In the area of environmental interventions, such as setting the clock and the patient's view of the calendar, encouraging the patient to increase mobility, listening to radio and music, using proper day and night lighting, putting glasses and hearing aids at the patient's disposal, and Encouraging staff to engage more with the patient to inform the patient about time, place and recent events.

Category

Prevention

2

Description

Control group: In the control group, ICU routine care will be taken.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Beheshti
Full name of responsible person
Reza Borzou
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Hamedan University of Medical Sciences
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan 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
Hamedan University of Medical Sciences

Full name of responsible person
Reza Borzou
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Assistant Professor
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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

Undecided - It is not yet known if there will be 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