

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

The effect of multicomponent nursing interventions on prevention of delirium and duration of patient hospitalization in cardiac care unit.

Protocol summary

Study aim

Determining the Effect of Multidimensional Nursing Interventions on Delirium Prevention and Duration of Patients' Residence in Cardiac Care Units

Design

Clinical trial with non-random sampling control group

Settings and conduct

In cardiac care unit of Imam Reza hospital of Omidiyeh, First control group will be selected using available sampling method up to 55 people and they will be assessed regarding delirium and then after the discharge of last one in this group, the intervention group will be selected using non-randomized available sampling method up to 55 people and the interventions will be done. The amount of delirium onset will be measured using MMSE questionnaire and duration of hospitalization will be documented using a checklist. First the patient will be assessed regarding the level of consciousness using Glasgow coma scale and if he/she obtained the score of 15 will enter the study. One of the nurses from cardiac care unit as a researcher assistant will be taught how to work with the MMSE questionnaire. Delirium will be assessed two times a day in morning and afternoon using MMSE questionnaire.

Participants/Inclusion and exclusion criteria

Age over 18 years Complete consciousness Having no previous mental illness Not having previous admissions in specialty Not having a delirium at the time of admission

Intervention groups

At first, a training package is provided in a two-hour session for Nurses of the intensive care unit by lecture method, and the contents are provided as a booklet. A poster in the form of a multichannel nursing program is implemented in the form of a protocol.

Main outcome variables

Delirium Multidisciplinary nursing care Duration of stay

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181005041234N1**

Registration date: **2019-02-05, 1397/11/16**

Registration timing: **retrospective**

Last update: **2019-02-05, 1397/11/16**

Update count: **0**

Registration date

2019-02-05, 1397/11/16

Registrant information

Name

samaneh dehghany

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 4224 9587

Email address

dehghani.s@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-09-22, 1397/06/31

Expected recruitment end date

2019-01-19, 1397/10/29

Actual recruitment start date

2018-09-22, 1397/06/31

Actual recruitment end date

2018-12-20, 1397/09/29

Trial completion date

2018-12-20, 1397/09/29

Scientific title

The effect of multicomponent nursing interventions on prevention of delirium and duration of patient hospitalization in cardiac care unit.

IR.AJUMS.REC.1397.393

Public title

Prevention of delirium in special heart care wards

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

have a full consciousness not having a previous mental illness Lack of prior treatment history in cardiac special care There is no delirium in the study .

Exclusion criteria:

Move the patient to another medical ward The deterioration of the patient

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **110**

Actual sample size reached: **110**

Randomization (investigator's opinion)

Not randomized

Randomization description

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 Shiraz University of Medical Sciences

Street address

Golestan University of Medical Sciences Ahvaz

City

Ahvaz

Province

Khuzestan

Postal code

6373174715

Approval date

2018-09-15, 1397/06/24

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

delirium

ICD-10 code

R25.9

ICD-10 code description

Unspecified abnormal involuntary movements

Primary outcomes

1

Description

delirium

Timepoint

quarter

Method of measurement

MMSE questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Multifaceted intervention to prevent delirium based on protocol

Category

Prevention

2

Description

Control group: Routine care

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

The Intensive Care Unit of Imam Reza Hospital

Full name of responsible person

Marzieh Asadi Zaker

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Badvi

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Golestan St, Medical Sciences Blvd,Ahvaz, Khuzestan Province, Iran

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

Yes

Title of funding source

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

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**

Ahvaz University of Medical Sciences

Full name of responsible person

Marzieh Asadi Zaker

Position

Faculty of Nursing and Head of Nursing

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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

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Full name of responsible person

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Position

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Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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

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Full name of responsible person

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Position

Head of Nursing and Midwifery Faculty of Ahvaz

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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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 total of the potential data is beyond the un of individuals .

When the data will become available and for how long

Starting accession period 6 months after the results are published

To whom data/document is available

The researchers will be available in academic and academic institutions .

Under which criteria data/document could be used

to use data or documents for applied research

From where data/document is obtainable

Samaneh.deghany68@gmail.com

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

Prompt for request

Comments