Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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.

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
Khouzestan
Postal code
6373174715
Approval date
2018-09-15, 1397/06/24
Ethics committee reference number
IR.AJUMS.REC.1397.393

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
Street address
Golestan University of Medical Sciences Ahvaz
City
Ahvaz
Province
Khouzestan
Postal code
6373174715

Phone
+98 71 4224 9587
Email
marziyehasadizaker@gmail.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ahvaz University of Medical Sciences
Full name of responsible person
Dr. Mohammad Badvi
Street address
Golestan St, Medical Sciences Blvd,Ahvaz, Khuzestan Province, Iran
City
Ahvaz
Province
Khouzestan
Postal code
6373174715
Phone
+98 71 4224 9587
Fax
+98 61 3336 1544
Email
marziyehasadizaker@gmail.com
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
Street address
Golestan St, Medical Sciences Blvd,Ahvaz, Khuzestan Province, Iran
City
Ahvaz
Province
Khouzestan
Postal code
6373174715
Phone
+98 71 4224 9587
Email
marziyehasadizaker@gmail.com

Person responsible for scientific inquiries

Contact
Name of organization / entity
Ahvaz University of Medical Sciences
Full name of responsible person
Marzieh Asadi Zaker
Position
Head of Nursing and Midwifery Faculty of Ahvaz
Latest degree
Ph.D.
Other areas of specialty/work
Nursery
Street address
Golestan St, Medical Sciences Blvd,Ahvaz, Khuzestan Province, Iran
City
Ahvaz
Province
Khouzestan
Postal code
6373174715
Phone
+98 71 4224 9587
Email
marziyehasadizaker@gmail.com

Person responsible for updating data

Contact
Name of organization / entity
Ahvaz University of Medical Sciences
Full name of responsible person
Marzieh Asadi Zaker
Position
Head of Nursing and Midwifery Faculty of Ahvaz
Latest degree
Ph.D.
Other areas of specialty/work
Nursery
Street address
Golestan St, Medical Sciences Blvd,Ahvaz, Khuzestan Province, Iran
City
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Province
Khouzestan

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marziyehasadizaker@gmail.com

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.dehghany68@gmail.com
What processes are involved for a request to access data/document
Prompt for request
Comments