

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jun 2026

The Effect of Nursing Care Based on Gordon Functional Health Model on Care Outcomes of Patients Undergoing Coronary Artery Bypass Surgery Hospitalized in Cardiac Surgery Intensive Care Unit

Protocol summary

Study aim

Determining the Effect of Nursing Care Based on Gordon Functional Health Model on Care Outcomes of Patients Undergoing Coronary Artery Bypass Surgery Hospitalized in Intensive Care Unit of Cardiac Surgery

Design

Clinical trial with control group, one-way blind, available, on 58 patients

Settings and conduct

First, the patients in the control group are transferred to the ICU of cardiac surgery after heart surgery, and these patients are routinely cared for. At the end of the control group, the patients who undergo surgery are placed in the intervention group and transferred to the ICU for cardiac surgery. This time, the patients are cared for according to Gordon's model. Nursing diagnoses are designed based on the patient's problems and ultimately nursing care.

Participants/Inclusion and exclusion criteria

Age range 40 to 65 years, Absence of cognitive problems in the patient, Surgery should be elective, Patients who have no communication problems, Be literate

Intervention groups

First, the patients in the control group are transferred to the ICU of cardiac surgery after cardiac surgery. These patients are routinely cared for and the results of the five main objectives of the study are measured. At the end of the control group, the operated patients are placed in the intervention group and transferred to the ICU for cardiac surgery. This time, the patients are cared for according to Gordon's model, and then the results of the five main goals are measured and recorded.

Main outcome variables

Duration of the patient's stay in the ICU of cardiac surgery; Duration of the patient's connection to the ventilator in the ICU of cardiac surgery; Readmission in the ICU; Patient death in ICU due to surgery; Successful

separation of the patient from the ventilator in the ICU of cardiac surgery

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210531051450N1**

Registration date: **2021-07-20, 1400/04/29**

Registration timing: **registered_while_recruiting**

Last update: **2021-07-20, 1400/04/29**

Update count: **0**

Registration date

2021-07-20, 1400/04/29

Registrant information

Name

Iman Davarpanah

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3229 9889

Email address

imandavar@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-06-22, 1400/04/01

Expected recruitment end date

2021-09-23, 1400/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
The Effect of Nursing Care Based on Gordon Functional Health Model on Care Outcomes of Patients Undergoing Coronary Artery Bypass Surgery Hospitalized in Cardiac Surgery Intensive Care Unit

Public title
The effect of Gordon's model in the care of patients undergoing open heart surgery

Purpose
Supportive

Inclusion/Exclusion criteria
Inclusion criteria:
Age range 40 to 65 years No cognitive problems in the patient Surgery is elective Patients who have no communication problems Be literate
Exclusion criteria:
Existence of mental disorder in the patient History of heart surgery in the patient

Age
From **40 years** old to **65 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **58**

Randomization (investigator's opinion)
Not randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description
In this study, participants are divided into two groups of control and intervention and the purpose of the study is explained, but both groups are unaware of the type of intervention.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Ahwaz Jundishapur University of Medical Sciences

Street address
Resalat, Meqdad III, Toranj I Complex

City
Ahwaz

Province
Khouzestan

Postal code
6177812011

Approval date
2021-06-05, 1400/03/15

Ethics committee reference number
IR.AJUMS.REC.1400.133

Health conditions studied

1

Description of health condition studied
Coronary artery bypass graft surgery

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
Success in separation from ventilator

Timepoint
While studying

Method of measurement
Gordon Functional Pattern Care Questionnaire

2

Description
Number of days of connection to the ventilator

Timepoint
While studying

Method of measurement
Gordon Functional Pattern Care Questionnaire

3

Description
Mortality

Timepoint
Until the patient is discharged

Method of measurement
Gordon Functional Pattern Care Questionnaire

4

Description
Patient readmission in ICU

Timepoint
Until the patient is discharged

Method of measurement
Gordon Functional Pattern Care Questionnaire

5

Description

Duration of the patient's stay in the ICU

Timepoint

Until the patient is transferred to the ward

Method of measurement

Gordon Functional Pattern Care Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 29 eligible hospitalized patients are in the experimental group and nursing care will be performed by nurses according to Gordon model. But before the intervention, nurses are taught for a week (three training sessions) how to perform care based on Gordon's functional pattern.

Category

Prevention

2

Description

Control group: 29 eligible hospitalized patients are in the control group and nursing care will be performed for them based on the daily routine of the unit and no intervention will be performed according to Gordon model in this group.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

AhWaz Golestan Hospital

Full name of responsible person

Dr. Nasrin Elahi

Street address

Resalat, Meqdad III, Toranj I Complex

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lmandavar@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mehdi Ahmadi Moghadam

Street address

Resalat, Meqdad III, Toranj I Complex

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6177182011

Phone

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Email

lmandavar@yahoo.com

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

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

Ahvaz University of Medical Sciences

Full name of responsible person

Iman Davarpanah

Position

Nurse

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Iman Davarpanah

Position

Nurse

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for updating data

Contact

Name of organization / entity

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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

In this study, all data and study methods and research results are all shared.

When the data will become available and for how long

All data can be shared immediately after the article is published.

To whom data/document is available

The data is accessible to anyone who can somehow guide them.

Under which criteria data/document could be used

If the data is needed and used, it is permissible to obtain permission from the researcher at her discretion.

From where data/document is obtainable

Email: lmandavar@yahoo.com Phone number:09302457712

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

If you need data, send your request via contact number or email to receive the appropriate response immediately upon request.

Comments