

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Assessment the Effect of Education on quality of caring interactions in nurses and patients in the cardiac care units

Protocol summary

Study aim

Assessment the effect of education on quality of caring interactions in nurses and patients in the cardiac care units of Kerman University Hospitals

Design

Clinical trial with control and intervention group, one-way blinded, randomized, with a total of 36 nurses and 152 patients

Settings and conduct

Patients were randomly selected among patients with at least three days of hospitalization. They are first selected as the evaluated group before the intervention and again after the intervention. Attempts are made to select patients before and after the intervention in such a way that they are similar in variables affecting the outcome of the study. Nurses are placed in the control and intervention groups by simple random method from two independent heart wards. Also, this study is a blind one-way study and the data analyzer is blinded.

Participants/Inclusion and exclusion criteria

Patients should be hospitalized in cardiac wards for at least 3 days, patients should be at least 18 years old, the general condition of the patient should be good, and she should have at least a literacy level. Nurses should have at least 6 months of clinical experience, WhatsApp smartphones, enough time to participate and collaborate in the study.

Intervention groups

Researcher in the group that created on the social network, invites the members of the intervention group to participate in sessions held through the WhatsApp. The training will be provided virtually one hour a day, every other day at a specific time of the day and for one month to the nurses of the intervention group. Educational videos downloaded from reputable sites with Persian subtitles will be placed in the group, also educational texts in Persian provided to the participants.

Main outcome variables

quality of caring interactions in nurses and patients

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220327054356N1**

Registration date: **2022-04-29, 1401/02/09**

Registration timing: **prospective**

Last update: **2022-04-29, 1401/02/09**

Update count: **0**

Registration date

2022-04-29, 1401/02/09

Registrant information

Name

Anis Bahreini

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 913 391 9939

Email address

anisbahreini1375@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-05-22, 1401/03/01

Expected recruitment end date

2022-07-23, 1401/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	Single blinded
Scientific title	Blinding description
Assessment the Effect of Education on quality of caring interactions in nurses and patients in the cardiac care units	The data analyzer is blind and she does not know which data is for control group and intervention group.
Public title	Placebo
Assessment the Effect of Education on quality of caring interactions in nurses and patients in the cardiac care units	Not used
Purpose	Assignment
Treatment	Parallel
Inclusion/Exclusion criteria	Other design features
Inclusion criteria:	Secondary Ids
Patients should be hospitalized in cardiac wards for at least 3 days. Patients should be at least 18 years old. The general condition of the patient should be good. Patients should have at least middle School degree. Nurses must have at least 6 months of clinical experience. Nurses must have a smartphone and WhatsApp. Nurses must have enough time to participate in the study.	empty
Exclusion criteria:	Ethics committees
Patients with dementia and psychological problems according to self-declaration Previous hospitalization history in the heart ward	1
Age	Ethics committee
From 18 years old	Name of ethics committee
Gender	Ethics committee of Kerman University of Medical Science
Both	Street address
Phase	No. 1, East Amirkabir, Kheirkhah dead end alley, Rafsanjan, Kerman
N/A	City
Groups that have been masked	Kerman
• Data analyser	Province
Sample size	Kerman
Target sample size: 188	Postal code
Randomization (investigator's opinion)	7717693545
Randomized	Approval date
Randomization description	2022-03-07, 1400/12/16
Patients are readily available from among patients admitted to the cardiac wards of the hospital after three days of hospitalization, first selected as a pre-intervention group and again after the completion of the educational intervention on nurses, as a post-intervention group. It should be noted that 38 patients are from one cardiac ward and 38 patients are from the other ward. Nurses working in these two wards, which are a total of 36 people will be included in the study by census method and nurses of one ward will be assigned to the control group and the nurses of the other ward will be assigned to the intervention group by simple random sampling with a sealed envelope. Are given in such a way that in each envelope the name of one of the two desired cardiac sections is written and one section is randomly selected as the intervention group and the other section as the control group. In each envelope, the name of one of the two cardiac wards is written and one section is randomly selected as the intervention group and the other ward as the control group.	Ethics committee reference number
Blinding (investigator's opinion)	IR.KMU.REC.1400.668
	Health conditions studied
	1
	Description of health condition studied
	quality of caring interactions in nurses and patients
	ICD-10 code
	ICD-10 code description
	Primary outcomes
	1
	Description
	Caring nurse-patient interaction
	Timepoint
	Before the intervention and one month after the intervention
	Method of measurement
	Caring Nurse-Patient Interactions Scale: 23-item Version
	2
	Description
	Caring interaction education
	Timepoint

Before the intervention and one month after the intervention

Method of measurement

Caring Nurse-Patient Interactions Scale: 23-item Version

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: After describing the purpose of the study and obtaining informed consent, in the first session, the researcher presented a questionnaire including demographic characteristics of patients and caring nurse-patient interaction scale (patient-version) to patients with at least 3 days hospitalization at cardiac care units and a questionnaire including demographic characteristics of nurses and the caring nurse-patient interaction scale(nurse-version) to cardiac care unit nurses. Then the intervention by a researcher who has a bachelor of science in nursing and at least two years of experience working in cardiac care units after improving her knowledge about the effect of education on nurse-patient care interactions in a self-taught way, is provided. the training method will be as follows: To prevent the effect of nurses' behavior on each other and distort the study, nurses for intervention and control group will be chose from two different cardiac care units. The researcher then, through a group created on the social network, invites the members of the intervention group to participate in sessions held through the WhatsApp application. The training will be provided virtually one hour a day, every other day at a specific time of the day and for one month to the nurses of the intervention group. After the approval of the research team, educational videos downloaded from reputable sites with Persian subtitles will be placed in the group, also educational texts in Persian provided to the participants, and it should be mentioned to ensure Reading materials by nurses will send them a reminder message at a specific time. The researcher will also answer possible questions of the participants during the intervention through social networks and WhatsApp application. Questionnaires will be completed by nurses 1 month after the intervention. It is important to note that the intervention is performed only on nurses, and in order to assess the consequences of the intervention, the nurse-patient caring interaction questionnaire (patient-version), will be completed by patients who have been hospitalized for at least three days and in variables Age, sex, and many other variables are matched with patients before the intervention, Before and one month after the intervention. These questionnaires will be distributed and collected by a bachelor of science in nursing who is working in that cardiac care unit. The educational content that will be presented to nurses in this study will include the content presented in nursing reference books in the field of education and caring

interaction between nurses and patients. Of course, references and articles available on international sites and reputable databases will also be used. After preparing the educational content of the intervention group, which will necessarily cover the contents of different areas of the nurse-patient caring interaction questionnaire, the materials will be provided to two specialist nurses with a PhD degree from the School of Nursing who will not formally cooperate with this study And its authenticity will be ensured. In the intervention group, in addition to the usual training, professional caring interaction training (according to the protocol designed by researchers based on relevant texts and research variables) will be provided to nurses Which include: definition of caring interaction, history about it, factors which influencing on a caring interaction, the impact of each area of the questionnaire on the caring interaction and vice versa, the impact of caring interaction on various aspects of treatment and disease and strategies for creating an appropriate caring interaction.

Category

Treatment - Other

2

Description

Control group: After describing the purpose of the study and obtaining informed consent, in the first session, the researcher presented a questionnaire including demographic characteristics of patients and caring nurse-patient interaction scale (patient-version) to patients with at least 3 days hospitalization at cardiac care units and a questionnaire including demographic characteristics of nurses and the caring nurse-patient interaction scale(nurse-version) to cardiac care unit nurses. The questionnaires will be completed, and again one month later, These questionnaires will be distributed and collected by a bachelor of science in nursing who is working in that cardiac care unit. The nurses in the control group will receive only the usual training(routine training) , and training in The field of caring interactions will not be provided to this group. It should be noted that at the end of the intervention, the training provided to the intervention group will be provided to the nurses of the control group.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shafa hospital

Full name of responsible person

Dr. Mahmod Nekoyimohgadam

Street address

Kosar boulevard , Shafa hospital

City

Kerman

Province
Kerman
Postal code
7618751151
Phone
+98 34 3211 5780
Fax
+98 34 3211 5783
Email
shafahospital@kmu.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
Dr. Reza Malek Pourafshar
Street address
Haftbagh alavi highway, Kerman University of Medical Science
City
Kerman
Province
Kerman
Postal code
7616913555
Phone
+98 34 3226 3855
Fax
+98 34 3226 3857
Email
malekpour@kmu.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Kerman 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
Kerman University of Medical Sciences
Full name of responsible person
Roghayeh Mehdipour
Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Haftbagh Alavi highway, Kerman University of Medical Science

City

kerman

Province

Kerman

Postal code

7616913555

Phone

+98 34 3132 5219

Email

rm41321@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Roghayeh Mehdipour

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Haftbagh Alavi highway, Kerman University of Medical Science

City

kerman

Province

Kerman

Postal code

7616913555

Phone

+98 34 3132 5219

Email

rm41321@yahoo.com

Person responsible for updating data

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Roghayeh Mehdipour

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

Haftbagh Alavi highway, Kerman University of Medical

Science
City
kerman
Province
Kerman
Postal code
7616913555
Phone
+98 34 3132 5219
Email
rm41321@yahoo.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

All unidentifiable data of the participants, study protocol, statistical analysis map, informed consent form, clinical study report, codes used in the analysis and data classification system can be shared.

When the data will become available and for how long

Immediately after publishing the results

To whom data/document is available

All researchers

Under which criteria data/document could be used

The source of the research should be stated and all ethical issues should be observed.

From where data/document is obtainable

anisbahreini1375@gmail.com

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

After obtaining permission from all researchers, this research will be sent via email.

Comments