

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

The effect of patient safety education program on nurses' patient safety culture and patient safety indicators in cardiac ward

Protocol summary

Summary

Purpose: This study was conducted to determine the effect of patient safety education program on nurses' patient safety culture and patient safety indicators.

Methods: This single blind clinical trial was conducted in two cardiac medical wards which were randomly selected as research settings among the hospital teaching wards of the Zanzan city in Iran. Cardiac medical wards were randomly allocated into two experimental and control groups and all nursing staff were recruited in the study. The experiment group (N=13) was received the educational program for two sessions, and the control group (N=13) was received a booklet about the patient safety. The nurses' patient safety culture was assessed using Hospital Survey on Patient Safety Culture (HSOPSC) questionnaire before and 3 months after intervention. The patient safety indicators were assessed before and 3 months after intervention using a standard checklist by direct observing of all indicators (N=100 for each).

Zanzan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research Zanzan University of Medical Sciences

Expected recruitment start date

2016-04-20, 1395/02/01

Expected recruitment end date

2016-08-22, 1395/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017011323520N3**

Registration date: **2017-06-10, 1396/03/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-06-10, 1396/03/20

Registrant information

Name

Nasrin Hanifi

Name of organization / entity

Scientific title

The effect of patient safety education program on nurses' patient safety culture and patient safety indicators in cardiac ward

Public title

The effect of education on patient safety

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria The nurses were included who had 6 month of work experience in the wards; and nurses were willing to participate in the study. **Exclusion criteria** Dissatisfaction of nurses at every stage of the study, nurses transferring to other wards. The questionnaires with identical answers to all questions; Failure to complete more than 50% of the questionnaires items.

Age

From **25 years** old to **45 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **26**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Two cardiac medical wards were chosen randomly by throwing dice the experiment and control groups.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Zanjan University of Medical Sciences

Street address

Zanjan University of medical Science

City

Zanjan University of medical Science

Postal code

Approval date

2016-04-12, 1395/01/24

Ethics committee reference number

ZUMS.REC.1395.03

Health conditions studied

1

Description of health condition studied

Patient safety

ICD-10 code

XXI-Z70-Z7

ICD-10 code description

Persons encountering health services in other specified circumstances

Primary outcomes

1

Description

Patient safety culture

Timepoint

Before intervention-Three months after the intervention

Method of measurement

Patient safety culture questionnaire

Secondary outcomes

1

Description

Patient safety indicator

Timepoint

Before intervention-Three months after the intervention

Method of measurement

Checklist

Intervention groups

1

Description

Intervention group 1: The intervention in this research was educational program regarding patient safety culture promotion. Booklets about patient safety culture and patient safety indicators were given to nurses in experimental group. Two sessions of three-hour educational program were held in experimental group. In these sessions, nurses learned patient safety culture, patient safety indicators and patient safety solutions. At the end of each session, question and answer and group discussion were held for nurses.

Category

Behavior

2

Description

Intervention/Control Booklets about patient safety culture and patient safety indicators were given to nurses in control group.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayat allah mousavi Hospital

Full name of responsible person

Zahra Yazdan shenas (Graduate of Medical-Surgical Nursing, Zanjan University of Medical Sciences)

Street address

Faculty of Nursing and Midwifery, Zanjan University of Medical Science, Shahrak Karmandan, Zanjan

City

Zanjan

2

Recruitment center

Name of recruitment center

Hazrat vali asr Hospital

Full name of responsible person

Zahra Yazdan shenas(Graduate of Medical-Surgical Nursing, Zanjan University of Medical Sciences)

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research Zanjan University Of Medical Science

Full name of responsible person

Alireza Shogli

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Vice-Chancellery for Research, Zanjan University of Medical Science

City

Zanjan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research Zanjan University Of Medical Science

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Zanjan University of Medical Science

Full name of responsible person

Nasrin Hanifi

Position

Assistant professor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty