

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of programmed education and nurse's clinical competence on post-op complications of open heart surgery patients at Alzahra Hospital compared with patients who received only routine training with pamphlet (in 2014)

Protocol summary

Summary

The purpose of this study is investigation the effect of programmed education and nurse's clinical competence on post-op complications of open heart surgery patients. The Inclusion criteria in this study consist of open heart surgery candidate, absence of chronic disease (expected risk factor of heart disease), absence of vision, hearing, speaking, cognitive impairment. Exclusion criteria: prolonged hospitalization more than one week. One hundred forty four patients candidate for open heart surgery were divided into two equal groups, control group and intervention group. The intervention in this study was, 3 sessions training program with family in the intervention group (the first session was before surgery and second and third were in the third and fifth day after surgery, each session prolonged 30-40 min). Patients in the control group received education pamphlets. Also the nurse's clinical competence, evaluated before patient's interventions with questionnaire. The effect of educations and nurse's clinical competence on post op complications, investigated 3 weeks after surgery. The education contained all the training and information needed for post-operative care. The primary outcome measure was, patient's post op complications.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015042821988N1**
Registration date: **2015-07-03, 1394/04/12**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-07-03, 1394/04/12

Registrant information

Name

Zeynab Khoshnood

Name of organization / entity

Shiraz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research Shiraz university of medical sciences

Expected recruitment start date

2014-09-06, 1393/06/15

Expected recruitment end date

2015-01-05, 1393/10/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of programmed education and nurse's clinical competence on post-op complications of open heart surgery patients at Alzahra Hospital compared with patients who received only routine training with pamphlet (in 2014)

Public title

The effect of education and nurse's clinical competence on post-op complications

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: open heart surgery candidate absence of chronic disease (expected risk factor of heart disease) absence of vision, hearing, speaking ,cognitive impairment power over the Persian language Exclusion criteria: the desire to leave prolonged hospitalization

Age

From **20 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **144**

Randomization (investigator's opinion)

Not randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Researcher's assistance and patients are not aware of research groups.

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Shiraz University of Medical Sciences.

Street address

Zand street, Headquarters of University of Medical Sciences, Seventh floor, Vice chancellor for research, Shiraz University of Medical Sciences

City

Shiraz

Postal code

71345-1978

Approval date

2014-09-06, 1393/06/15

Ethics committee reference number

CT93-7129

Health conditions studied**1****Description of health condition studied**

Post open heart surgery complications

ICD-10 code

Y83.9

ICD-10 code description

Surgical procedure , unspecified

Primary outcomes**1****Description**

Open heart surgery complications: pulmonary complications, GI complications, infection, weakness

Timepoint

Three weeks after interventions

Method of measurement

Researcher making questionnaire

Secondary outcomes**1****Description**

Nurse's clinical competence

Timepoint

Before patient's interventions

Method of measurement

Mertooja's clinical competence questionnaire

Intervention groups**1****Description**

3 sessions training program with family in the intervention group (the first session was before surgery and second and third were in the third and fifth day after surgery, each session prolonged 30-40 min).. The educations contained all the training and information needed for postoperative care, such as: post op complications ,medication, diet, activity, respiratory Physiotherapy, dressing, take shower

Category

Prevention

2**Description**

Control group received routine training with pamphlet that contained: post op complications ,medication, diet, activity, respiratory Physiotherapy, dressing, take shower

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Zeynab Khoshnood

Street address

Fateme(P.B.U.H) School of Nursing and Midwifery-
Namazi square-Zand street

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shiraz University of
Medical Sciences

Full name of responsible person

Gholareza Hatam

Street address

Research assistance-Seventh Floor-Headquarters of
university of medical science-Zand street

City

Shiraz

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, Shiraz University of Medical
Sciences

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

Shiraz University of Medical Sciences

Full name of responsible person

Mahnaz Rakhshan

Position

Phd Assistant Professor of Nursing

Other areas of specialty/work

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Other areas of specialty/work

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Web page address

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