

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

determination of effect of deep-slow and regular breathing on pain intensity after chest tube removal in patients underwent Coronary Artery Bypass Graft (CABG) surgery

Protocol summary

Summary

Objective: determination of effect of deep-slow and regular breathing on pain intensity after chest tube removal in patients underwent Coronary hospitalized in Imam Ali-Design: randomized controlled clinical trial. Setting and conduct: required sample size is 140 patients. Eligible patients will be allocated to one of the two groups of deep-slow and regular breathing and control group by randomization-Inclusion criteria include Consent to participate in the study, age between 25 to 65 years, stable vital signs, The ability to speak and understand the language, conscious of the place, time and person ,No take sedative and analgesic four hours before pulling the chest tube, No history of diabetes, No respiratory infection or infection chest tube, No history of drug addiction, No history of previous chest surgery had a chest tube lateral or bilateral, having at least one chest-Exclusion criteria include Patients who do not continue cooperation until the end of intervention, critically ill patient during the study; death the patient's- Interventions: In order to gather data in both group pain intensity using a visual analog scale, two minutes after dressing removal chest tube will be assessed and after the intervention group be asked, deep-slow and regular breathing for 15 minutes and Control group will receive routine cares. Again pain intensity in both groups using a VAS, 15 minutes after removal of the chest tube, will be assessed by the investigator-The main outcome variables: pain intensity.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017021932650N1**
Registration date: **2017-04-05, 1396/01/16**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-04-05, 1396/01/16

Registrant information

Name

Bahareh Dehghany

Name of organization / entity

Kermanshah School of Nursing and Midwifery

Country

Iran (Islamic Republic of)

Phone

+98 83 3826 1081

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Kermanshah University of Medical Sciences

Expected recruitment start date

2017-04-04, 1396/01/15

Expected recruitment end date

2017-07-06, 1396/04/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

determination of effect of deep-slow and regular breathing on pain intensity after chest tube removal in patients underwent Coronary Artery Bypass Graft (CABG) surgery

Public title

The effect of deep-slow and regular breathing on pain intensity after chest tube removal in patients underwent Coronary Artery Bypass Graft (CABG) surgery

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria : age between 25 to 65 years; stable vital signs; The ability to speak and understand the language; conscious of the place, time and person; No take sedative and analgesic four hours before pulling the chest tube; No history of diabetes; No respiratory infection or infection chest tube; No history of drug addiction; No history of previous chest surgery had a chest tube lateral or bilateral; having at least one chest. exclusion criteria : Patients who do not continue cooperation until the end of intervention; critically ill patient during the study; death the patient's.

Age

From **25 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **140**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single 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 Kermanshah University of Medical Sciences

Street address

Kermanshah University of Medical Sciences, Shahid Beheshti Blvd

City

kermanshah

Postal code

Approval date

2017-01-25, 1395/11/06

Ethics committee reference number

kums.rec.1395.633

Health conditions studied

1

Description of health condition studied

coronary surgery

ICD-10 code

I97.1

ICD-10 code description

Other functional disturbances following cardiac surgery

2

Description of health condition studied

pain

ICD-10 code

R52.0

ICD-10 code description

Pain, not elsewhere classified, Acute pain

Primary outcomes

1

Description

pain intensity

Timepoint

Minute 2 and 15 after removal chest tube

Method of measurement

visual analog scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: two minutes after the removal of chest tube , to measure pain intensity, visual analog scale will be given to complete. Then they are asked, 15 minutes of deep, slow and regular breathing, and again to complete the visual analog scale

Category

Other

2

Description

Control group: two minutes after the removal of chest tube , to measure pain intensity, visual analog scale will be given to complete. 15 minutes later, without any intervention (usual care only) again to will be complete the visual analog scale

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali Hospital of Kermanshah

Full name of responsible person

Jahangir Rezaie

Street address

Nursing Department, Kermanshah School of Nursing and Midwifery, Ashayer Street

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Kermanshah University of Medical Sciences

Full name of responsible person

Behrooz Hamzeh

Street address

Vice Chancellor for Research, Kermanshah University of Medical Sciences, Shahid Beheshty street, Kermanshah, Iran

City

Kermanshah

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, Kermanshah 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

Kermanshah School of Nursing and Midwifery

Full name of responsible person

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Position

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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