

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Influence of arm position during infraclavicular subclavicular vein catheterization in coronary artery bypass graft surgery

Protocol summary

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Summary

In this study, we compare complications between arm position (Abduction and Adduction) during infraclavicular subclavicular vein catheterization in patients who undergoing coronary artery bypass graft surgery. The patients will be studied in two groups randomly. In this study, blinding will be done to patients and data analyzer groups. Numbers of patients in this study are 320. Inclusion criteria: All patients between 25 to 90 years old that candidate for coronary artery bypass graft surgery. Exclusion criteria: Previously thoracic surgery and infection in catheterization site. Complications of catheter placement detect with surgeon and chest x-ray and manage by surgeon and anesthesiologist.

Recruitment status

Recruitment complete

Funding source

Hamadan University of Medical Sciences, Vice Cbancellor for Research and Technology of Hamadan University

Expected recruitment start date

2017-01-17, 1395/10/28

Expected recruitment end date

2017-12-22, 1396/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017062110348N4**

Registration date: **2017-08-30, 1396/06/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-08-30, 1396/06/08

Registrant information

Name

Masoud Tarbiat

Name of organization / entity

Hamedan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

Scientific title

Influence of arm position during infraclavicular subclavicular vein catheterization in coronary artery bypass graft surgery

Public title

Influence of arm position during infraclavicular subclavicular vein catheterization in coronary artery bypass graft surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Patients between 25 to 90 years old that candidate for coronary artery bypass graft surgery. Exclusion criteria: Previously thoracic surgery; Infection in catheterization site

Age

From **25 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 320

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 on Biomedical Research of
Hamadan University of Medical Science

Street address

Hamadan University of Medical Sciences, Fahmideh
Street, Hamedan, IRAN

City

Hamadan

Postal code

6517838678

Approval date

2017-06-19, 1396/03/29

Ethics committee reference number

IR.UMSHA.REC.1396.164

Health conditions studied

1

Description of health condition studied

Medical devices associated with adverse incidents in
diagnostic and therapeutic use

ICD-10 code

Y70, Y82

ICD-10 code description

Medical devices associated with adverse incidents in
diagnostic and therapeutic use

Primary outcomes

1

Description

Catheter malposition

Timepoint

One day after surgery

Method of measurement

Chest X- ray

Secondary outcomes

1

Description

Injury to subclavian artery

Timepoint

During catheterization

Method of measurement

Observation by physician

Intervention groups

1

Description

Control group: The catheter will be inserted in right
subclavein vein at addction arm position.

Category

Prevention

2

Description

Intervention group: The catheter will be inserted in right
subclavein vein at abdction arm position.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Farshchian Hospital

Full name of responsible person

Masoud Tarbiat

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Hamadan University of Medical Sciences, Fahmideh
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamadan University of Medical Sciences, Vice
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Unive

Full name of responsible person

Saeid Bashirian

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Grant name

معاونت تحقیقات و فناوری دانشگاه علوم پزشکی همدان

Grant code / Reference number

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

Yes

Title of funding source

Hamadan University of Medical Sciences, Vice Cbancellor for Research and Technology of Hamadan Unive

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

Hamadan University of Medical Sciences

Full name of responsible person

Masoud Tarbiat

Position

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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