Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

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

Protocol summary

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 catheterizetion site. Complications of catheter placement detect with surgeon and chest x-ray and manage by surgeon and anesthesiologist.

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

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Hamadan University of Medical Sciences, Vice Cbanceller 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

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 catheterizetion 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 Street، Hamedan, IRAN
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Hamadan University of Medical Sciences, Vice Cbanceller for Research and Technology of Hamadan Unive
Full name of responsible person
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Hamadan
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 Cbanceller 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

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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