

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of associated complications between supraclavicular and subclavicular methods in subclavian vein catheterization

Protocol summary

Summary

In this study, we compare complications between supraclavicular and subclavicular methods in subclavian vein catheterization in patients who undergoing cardiac surgery. The patients will be studied in two groups randomly. Numbers of patients in this study are 280. Inclusion criteria: All patients between 25 to 100 years old that candidate for cardiac 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.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014102210348N3**
Registration date: **2014-11-30, 1393/09/09**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-11-30, 1393/09/09

Registrant information

Name

Masoud Tarbiat

Name of organization / entity

Hamedan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Hamedan University of Medical Sciences

Expected recruitment start date

2014-10-23, 1393/08/01

Expected recruitment end date

2015-04-21, 1394/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of associated complications between supraclavicular and subclavicular methods in subclavian vein catheterization

Public title

Complications of subclavian vein catheterization

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Patients between 25 to 100 years old that candidate for cardiac surgery. Exclusion criteria: Previously thoracic surgery; Infection in catheterization site

Age

From **25 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **280**

Randomization (investigator's opinion)

Randomized

Randomization description
Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Hamedan University of Medical Sciences

Street address

Hamedan University of Medical Sciences, Shariaty
Cross, Hamedan

City

Hamedan

Postal code

83512544

Approval date

2014-10-19, 1393/07/27

Ethics committee reference number

3521/9/35/16/پ

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

The catheter will be inserted in right subclavein vein by
supraclavicular method.

Category

Prevention

2

Description

The catheter will be inserted in right subclavein vein by
infraclavicular method.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ekbatan Hospital

Full name of responsible person

Masoud Tarbiat

Street address

Ekbatan Hospital, Taleghani Street, Hamedan

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Saeid Bashirian

Street address

Hamedan University of Medical Sciences, Fahmideh
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City

Hamedan

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

Hamedan 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
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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