

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Evaluation of heparin administration effects during diagnostic coronary angiography in coronary artery disease for active bleeding, hematoma, pseudoaneurysm and ischemic accidents

Protocol summary

Summary

Aim: Coronary angiography involves the selective injection of a radiographic contrast agent in the coronary arteries. Intravenous heparin may be given at the time of catheter insertion in some center. But optimal strategy for administering heparin to patients undergoing coronary angiography remains unclear. The aim of this study is evaluation of heparin administration effects during diagnostic coronary angiography in Ekbatan hospital centre. **Materials and Methods:** This was a randomized controlled clinical trial study which was done on 500 patients, undergoing diagnostic coronary angiography via femoral approach. Patients initially were divided to two groups, 250 cases were on intravenous (heparin) and 250 on no heparin. We studied during and post angiographic vascular complications (active bleeding, groin hematoma, retroperitoneal hematoma, pseudoaneurysm, Ischemic cerebral and peripheral vascular accident and clot during angiography). The data such as age ,sex, ejection fraction, positive history of hypertension, diabetes mellitus, severe peripheral vascular disease, aortic stenosis and coagulopathy were collected via questionnaires. All patients with CAD referred to Ekbatan hospital for coronary angiography. Patients with severe AS, PVD , coagulopathy and angiography procedures more than 30 minutes were excluded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202199080N1**
Registration date: **2012-03-15, 1390/12/25**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-03-15, 1390/12/25

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

Expected recruitment start date

2006-03-21, 1385/01/01

Expected recruitment end date

2006-09-21, 1385/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of heparin administration effects during diagnostic coronary angiography in coronary artery disease for active bleeding, hematoma, pseudoaneurysm and ischemic accidents

Public title

Heparin administration in coronary angiography

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: all patients with CAD referred to Ekbatan hospital for coronary angiography. Exclusion criteria: patients with severe AS, PVD, coagulopathy and angiography procedures more than 30 minutes.

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 500

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

Hamadan university of medical sciences

Street address

Hamadan university of medical sciences

City

Hamadan

Postal code

Approval date

2012-02-16, 1390/11/27

Ethics committee reference number

4226/9/35/16/د/پ

Health conditions studied

1

Description of health condition studied

Atherosclerotic heart disease

ICD-10 code

I25.1

ICD-10 code description

Atherosclerotic heart disease

Primary outcomes

1

Description

Hematoma, active bleeding

Timepoint

until 30 days after angiography

Method of measurement

inspection and clinical evaluation

Secondary outcomes

1

Description

Cerebrovascular accident

Timepoint

until 30 days after angiography

Method of measurement

inspection and clinical evaluation

Intervention groups

1

Description

heparin administration during coronary angiography in Atherosclerotic heart disease (3000 unit/IV)

Category

Treatment - Drugs

2

Description

No administration of Heparin in control group

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Ekbatan Hospital

Full name of responsible person

Mosen GHarakhani

Street address

Cardiovascular ward, Ekbatan Hospital

City

Hamadan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamadan university of medical sciences

Full name of responsible person

Abbas Zamanian
Street address
 Hamadan Univesity of Meical Sciences
City
 Hamadan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Hamadan 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

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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