Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Jul 2026

The effect of low-dose apixaban in the treatment of symptomatic cases of radial artery occlusion following radial artery angiography.

Protocol summary

Study aim
Determining the effect of low-dose apixaban in the treatment of symptomatic cases of radial artery occlusion

Design
In this study, the number of 30 patients (15 in the study group and 15 in the control group) among the people who experienced symptoms such as pain, swelling, and numbness, were evaluated using Doppler waves with a prop Vasculature has been examined and the people who have been confirmed to have radial artery occlusion and who meet the necessary criteria based on the project manager's review to be included in the study, after obtaining informed and written consent, will be included in the study. The control group did not receive treatment. Patients were randomly divided into two groups.

Settings and conduct
This study is a pilot RCT and was conducted in Shahid Chamran Heart Center Hospital, Isfahan, Iran in 1401-1402.

Participants/Inclusion and exclusion criteria
The inclusion criteria are people who have undergone radial artery angiography and then have symptoms related to radial artery occlusion (such as pain and palpable radial pulse). The need for a therapeutic dose of anticoagulants, the use of other anticoagulants, severe symptoms of vascular occlusion that requires rapid intervention to restore the arterial channel, contraindications to the use of apixaban that include severe drug sensitivity, active clinical and pathological bleeding such as gastrointestinal and cerebral, hemostasis disorder and advanced renal failure were considered as exclusion criteria

Intervention groups
The patients in the study group were treated with apixaban (2.5 mg every 12 hours, orally, made by a factory) for 30 days, and after the end of the treatment period, the recovery of the artery was checked again with Doppler waves. to give For people during the study, after the second week, their medication intake will be followed up by phone call.

Main outcome variables
Radial artery occlusion

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20221013056161N1**
Registration date: **2023-05-30, 1402/03/09**
Registration timing: **registered_while_recruiting**

Last update: **2023-05-30, 1402/03/09**
Update count: **0**

Registration date
2023-05-30, 1402/03/09

Registrant information

Name
Amir Seifipour

Name of organization / entity

Country
Iran (Islamic Republic of)

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+98 31 3629 1716

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2023-05-22, 1402/03/01

Expected recruitment end date
2023-07-23, 1402/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of low-dose apixaban in the treatment of symptomatic cases of radial artery occlusion following radial artery angiography.

Public title

The effect of low-dose apixaban in the treatment of symptomatic cases of radial artery occlusion following radial artery angiography.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

People who have undergone radial artery angiography Symptoms related to radial artery occlusion (such as pain and palpable radial pulse) Confirmed by Doppler imaging

Exclusion criteria:

Lack of patient satisfaction The need for a therapeutic dose of anticoagulants The use of other anticoagulants Severe symptoms of vascular occlusion that require rapid intervention to restore the arterial channel Contraindications for apixaban use include severe drug sensitivity Active clinical and pathological bleeding such as gastrointestinal and cerebral hemostasis disorder and advanced renal failure

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

In this study, the number of 30 patients (15 in the study group and 15 in the control group) among the people who experienced symptoms such as pain, swelling, and numbness following an angiography through the radial artery, were evaluated using Doppler waves with a prop Vasculature has been examined and the people who have been confirmed to have radial artery occlusion and who meet the necessary criteria based on the project manager's review to be included in the study, after obtaining informed and written consent, will be included in the study.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethical Committee of Isfahan University of Medical Sciences

Street address

Third Mushtaq St. - Salman Farsi St

City

esfahan

Province

Isfehan

Postal code

8158388997

Approval date

2022-07-31, 1401/05/09

Ethics committee reference number

IR.MUI.MED.REC.1401.338

Health conditions studied

1

Description of health condition studied

Radial artery occlusion following angiography

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Radial artery occlusion

Timepoint

Before the intervention and 28 days after the intervention

Method of measurement

The inclusion criteria are people who have undergone radial artery angiography and then have symptoms related to radial artery occlusion (such as pain and palpable radial pulse), which can be confirmed by Doppler imaging. All ultrasounds are performed by a radiologist.

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: The patients in the study group were treated with apixaban (2.5 mg every 12 hours, orally, manufactured by Abidi Co.) for 28 days, and after the end of the treatment period, the recovery of the artery was again examined with Doppler waves. we put. For people during the study, after the second week, their medication intake will be followed up by phone call

Category
Treatment - Drugs

2

Description
Control group: It included patients with radial artery occlusion after angiography who were selected as the control group and did not receive any anticoagulant treatment.

Category
Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Chamran Hospital

Full name of responsible person
Dr. Afshin Amirpour

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Third Mushtaq St. Salman Farsi St

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences

Full name of responsible person
Dr. Gholamreza Asgary

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
No

Title of funding source
Isfahan Medical School

Proportion provided by this source
10

Public or private sector
Public

Domestic or foreign origin
Domestic

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Esfahan University of Medical Sciences

Full name of responsible person
Dr. Afshin Amirpour

Position
Academic staff

Latest degree
Subspecialist

Other areas of specialty/work
Cardiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available

Study Protocol
Yes - There is a plan to make this available

Statistical Analysis Plan
Yes - There is a plan to make this available

Informed Consent Form
Yes - There is a plan to make this available

Clinical Study Report
Yes - There is a plan to make this available

Analytic Code
Yes - There is a plan to make this available

Data Dictionary
Yes - There is a plan to make this available

Title and more details about the data/document
Data can potentially be shared after de-identifying individuals

When the data will become available and for how long
"Starting the access period 6 months after printing the results".

To whom data/document is available
It will be available only to researchers working in academic and scientific institutions

Under which criteria data/document could be used
Allowed for the entire documentation

From where data/document is obtainable
Email address

What processes are involved for a request to access data/document
After confirmation by the researcher after one month

Comments