

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 2026

Evaluation of the effect of oral pentoxifylline on reducing chest pain in ischemic patients with slow flow coronary arteries

Protocol summary

Registration timing: **registered_while_recruiting**

Study aim

Evaluation of effect of oral pentoxifylline in reducing chest pain in patients with slow flow coronary arteries

Last update: **2022-04-30, 1401/02/10**

Update count: **0**

Design

The clinical trial will be performed on a group of 40 patients with Coronary slow flow in coronary angiography . After 2 weeks they will be evaluated by a questionnaire about severity, frequency and duration of chest pain. If chest pain continues, they will be treated with pentoxifylline for 2 weeks more and will be evaluated again for the same parameters.

Registration date

2022-04-30, 1401/02/10

Registrant information

Name

Reza Teimouri dastjerdan

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3867 9747

Email address

teimouridr971@mums.ac.ir

Settings and conduct

location of study: cardiology ward of Imam Reza hospital in Mashhad. population of study: patient with coronary slow flow in coronary angiography with more than 30 years old. blinding of study: no blinding was done

Recruitment status

Recruitment complete

Funding source

Participants/Inclusion and exclusion criteria

Inclusion criteria: patients with slow flow coronary arteries in angiography; patients at the age of 30 years old and over. Non-inclusion criteria: ejection fraction less than thirty percent; allergy to pentoxifylline; creatinine clearance less than 30; severe mitral stenosis; severe aortic stenosis

Expected recruitment start date

2022-04-09, 1401/01/20

Expected recruitment end date

2022-07-11, 1401/04/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Intervention groups

Patients with slow flow coronary arteries in angiography will be treated with standard medicine .If chest pain is sustained, they will undergo treatment with Pentoxifylline.

Trial completion date

empty

Main outcome variables

Severity of chest pain based on Likert scale; frequency of chest pain; duration of chest pain

Scientific title

Evaluation of the effect of oral pentoxifylline on reducing chest pain in ischemic patients with slow flow coronary arteries

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210711051842N1**

Registration date: **2022-04-30, 1401/02/10**

Public title

Effect of pentoxifylline in treatment of patients with slow flow coronary arteries

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with slow flow coronary arteries in angiography

Exclusion criteria:

Age more than thirty years Creatinine clearance less than 30 Severe aortic stenosis Severe mitral stenosis

Age

From 30 years old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 40

Randomization (investigator's opinion)

N/A

Randomization description

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

Ethics committee of Mashhad University of Medical Sciences

Street address

First floor; No.44, Haft-e-tir 15; Haft-e-tir Blvd

City

Mashhad

Province

Razavi Khorasan

Postal code

9178854453

Approval date

2021-06-01, 1400/03/11

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1400.229

Health conditions studied

1

Description of health condition studied

Pentoxifylline in patients with slow flow coronary arteries

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Severity of chest pain through Likert scale

Timepoint

Evaluation of chest pain after angiography and after two weeks and one month

Method of measurement

Questionnaire for evaluating severity, frequency and duration of chest pain

Secondary outcomes

1

Description

frequency chest pain

Timepoint

at the time of angiography and two weeks and one month later

Method of measurement

Questionnaire usage

2

Description

duration of chest pain

Timepoint

at the time of angiography and two weeks and one month later

Method of measurement

Questionnaire usage

3

Description

severity of chest pain based on Canadian cardiovascular society score (CCS)

Timepoint

at the time of angiography and two weeks and one month later

Method of measurement

Questionnaire usage

Intervention groups

1

Description

Intervention group: patients with slow flow coronary arteries in angiography will be treated with standard medicine for two weeks and in case of pain continuation, will be treated with oral pentoxifylline 400 milligram three times a day for two weeks and finally pentoxifylline effect in chest pain reduction will be evaluated. (the same questionnaire will be filled two weeks and one month after coronary angiography by the same person)

Category
Treatment - Drugs

Type of organization providing the funding
Academic

Recruitment centers

1

Recruitment center

Name of recruitment center
Imam Reza hospital in Mashhad
Full name of responsible person
Reza Teimouri Dastjerdan
Street address
First floor; No.44, Haft-e-tir 15; Haft-e-tir Blvd
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Mahid Ghayur Mobarhan
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First floor; No.44, Haft-e-tir 15; Haft-e-tir Blvd
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mashhad University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin

Person responsible for general inquiries

Contact

Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Reza Teimouri Dastjerdan
Position
cardiology resident
Latest degree
Medical doctor
Other areas of specialty/work
Cardiology
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First floor; No.44, Haft-e-tir 15; Haft-e-tir Blvd
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Person responsible for scientific inquiries

Contact

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Position
resident
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Person responsible for updating data

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Latest degree

Medical doctor

Other areas of specialty/work

Cardiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available