

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

effect of pentoxifylline in ameliorating myocardial injury in patients with anterior myocardial infarction undergoing thrombolytic therapy :randomized controlled trial,a pilot study

Protocol summary

Summary

The aim of study : Effect of pentoxifylline in ameliorating the myocardial injury in patients with anterior myocardial infarction undergoing thrombolytic therapy . This study will be done in 90 patients with over 18 years old visiting the emergency department of madani heart hospital ,tabriz,iran.this study is a single center randomized controlled trial(a pilot study) . Inclusion criteria: Patients over 18 old years; Acute myocardial infarction; Undergoing thrombolytic therapy Exclusion criteria: History of coronary arterial bypass graft; History of myocardial infarction; History of renal failure; History of cardiogenic shock Demographic ,clinical,labratory and therapeutical data of patients will be collected by study the medical records of patients and history taking .The data will be recorded in spacial form . Patients will be divided to two groups with equal sample size ,intervention group and control group with randomized systematic method .Intervention group will be given 1200 mg loading dose of pentoxiphylline tablet.Control group will not be given placebo.Paraclinical evaluation will be done at hospital labratory. Labratory personnels will be blind about patients group. Primary end point: Cardiac enzymes will be checked once at base and every 8 hour during 48 hour of hospitalization.Then mean and peak of cardiac enzymes will be calculated. Secondary end point: The rate of ST-resolution at 90 minute will be compared between tow group .Then the patients will be followed up for one month, and the data about reangina,reinfarction ,rehospitalization , cardiac mortality and all cause mortality will be collected.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2015102624722N1**
Registration date: **2016-01-17, 1394/10/27**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-01-17, 1394/10/27

Registrant information

Name

Rasol Zohouri

Name of organization / entity

Tabriz University Of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Cardiovascular Research Center, Tabriz University of Medical Sciences

Expected recruitment start date

2015-12-22, 1394/10/01

Expected recruitment end date

2016-03-15, 1394/12/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

effect of pentoxifylline in ameliorating myocardial injury in patients with anterior myocardial infarction undergoing thrombolytic therapy :randomized controlled trial,a pilot study

Public title

Effect of pentoxifylline in myocardial infarction

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: patients with over 18 year; patients with acute anterior myocardial infarction; patients undergoing thrombolytic therapy exclusion criteria: history of coronary artery by pass graft; history of myocardial infarction; history of renal failure; sensitivity to aspirin,clopidogrel or pentoxifylline; cardiogenic shock

Age

From **18 years** old to **139 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Randomized Numeral Table

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee Of Tabriz University Medical Sciences

Street address

Tabriz University Of Medical Sciences, Gholghasht Street

City

Tabriz

Postal code**Approval date**

2015-05-28, 1394/03/07

Ethics committee reference number

5/4/2394 کد اخلاقی TBZMED.REC.1394.173

Health conditions studied**1****Description of health condition studied**

myocardial infarction

ICD-10 code

IX

ICD-10 code description

Diseases of the circulatory system

Primary outcomes**1****Description**

check of cardiac enzymes(cpk ,CK-MB)

Timepoint

check at base then every 8 hour until 48 hour

Method of measurement

Enzymes chec

Secondary outcomes**1****Description**

the st-resolution rate at 90 minute after given thrombolytic

Timepoint

90 minute after given thrombolytic

Method of measurement

percent of st decline

Intervention groups**1****Description**

Intervention group:1200 mg loading dose of pentoxifylline table(3 tablet 400 mg)trance oral without continuous Hakim Manufactory

Category

Treatment - Drugs

2**Description**

control group:no intervention

Category

N/A

Recruitment centers**1****Recruitment center****Name of recruitment center**

Madani Educational,Theraputical And Research Center

Full name of responsible person

Rasol Zohouri

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Cardiovascular Research Center, Tabriz University Of
Medical Sciences

Full name of responsible person

Dr Hossin Namdar

Street address

Cardiovascular Research Center, Shahid Madani Heart
Hospital, University Street

City

Tabriz

Grant name

-

Grant code / Reference number

-

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Cardiovascular Research Center, Tabriz 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

madani educational,theraputical and research
cardiovascular center

Full name of responsible person

rasol zohouri

Position

cardiovascular resident

Other areas of specialty/work

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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