

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of remote ischemic peri-conditioning in comparison to not performing it on electrocardiographic ST resolution in STEMI patients treated with thrombolytics

Protocol summary

Summary

The major goal is the assessment the effect of remote ischemic peri-conditioning on electrocardiographic ST resolution in STEMI patients who were treated with thrombolytics. 80 patients with the first STEMI candidated for thrombolytics were recruited and randomly assigned to case and control groups. Peri-conditioning was done via 3 times intermittent inflation the cuff of sphygmomanometer 30 mmHg more than the systolic blood pressure in cases and 30 mmHg less than it in controls on the other hand of thrombolytic injection site. Patients with other ECG changes were excluded. ST resolution and cardiac enzymes were assessed. Patients and researchers were blind of randomization.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014011916229N2**

Registration date: **2016-06-22, 1395/04/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-06-22, 1395/04/02

Registrant information

Name

Samad Ghaffari

Name of organization / entity

Cardiovascular Research Center, Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3333 3576

Email address

ghafaris@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Tabriz University of Medical Sciences

Expected recruitment start date

2014-02-15, 1392/11/26

Expected recruitment end date

2015-02-15, 1393/11/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of remote ischemic peri-conditioning in comparison to not performing it on electrocardiographic ST resolution in STEMI patients treated with thrombolytics

Public title

The effect of limb ischemia on myocardial infarction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients 18- 80 yrs of age; with first acute MI; presenting within first 6 hours from symptom onset Exclusion : LBBB; Pacemaker; cardioversion ; cardiogenic shock and those candidate for rescue PCI or emergency CABG

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Golgasht St., Azadi Ave.

City

Tabriz

Postal code

Approval date

2010-08-20, 1389/05/29

Ethics committee reference number

9319

Health conditions studied

1

Description of health condition studied

Acute myocardial infarction

ICD-10 code

I21.0, I21

ICD-10 code description

Acute transmural myocardial infarction of anterior wall
;Acute transmural myocardial infarction of inferior wall

Primary outcomes

1

Description

ST Resolution

Timepoint

90 MIN

Method of measurement

ECG

Secondary outcomes

1

Description

Enzymatic Infarct Size

Timepoint

First 48 hrs (every 12 hrs)

Method of measurement

Laboratory Analysis via routine cardiac enzymes kit

Intervention groups

1

Description

3 times inflation the cuff of sphygmomanometer 30 mmHg more than the systolic blood pressure

Category

Treatment - Devices

2

Description

3 times inflation the cuff of sphygmomanometer 30 mmHg less than the systolic blood pressure

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Madani Heart Center

Full name of responsible person

Ghaffari Samad

Street address

Golbad St., Azadi Ave.

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Tabriz University of Medical Sciences

Full name of responsible person

Soleimanpur Hasan

Street address

Golgasht St., Azadi Ave.

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for 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

Tabriz University of Medical Sciences

Full name of responsible person

Ghaffari Samad

Position

Full Professor of Cardiology

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