

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

A comparative study between hemodynamic effect of metoprolol tartrate and metoprolol succinate in Acute Coronary Syndrome patients who admitted in Imam Ali hospital in Kermanshah city, 2015

Protocol summary

Summary

The goal of this study is comparison between hemodynamic effect of metoprolol tartrate and metoprolol succinate in patients who admitted with ACS in Imam Ali hospital in Kermanshah city, Iran in 2015 and will be performed as double blind study. At least 100 patients are selected and divided in two groups, randomly. The first one take metoprolol tartrate 25-50mg, twice daily or QID and the last take metoprolol succinate 23.75 or 47.5mg once or twice daily and evaluate for blood pressure and heart rate in 72 hours. Several items like age, sex, smoking, and history of blood pressure is also contemplated. Inclusion criteria: age older than 18 years old with Acute Coronary Syndrome diagnosis. Exclusion criteria: age less than 18 years old; severe pulmonary disease and severe asthma; use of other beta blockers; use of calcium channel blocker, digoxin; II and III degree heart block; peripheral vascular disease and Diabetes Melitus.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016010425839N1**
Registration date: **2016-02-02, 1394/11/13**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-02-02, 1394/11/13

Registrant information

Name

Reza Heidarymoghadam

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 83 3836 0041

Email address

heidary@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

Expected recruitment start date

2015-09-23, 1394/07/01

Expected recruitment end date

2016-06-20, 1395/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparative study between hemodynamic effect of metoprolol tartrate and metoprolol succinate in Acute Coronary Syndrome patients who admitted in Imam Ali hospital in Kermanshah city, 2015

Public title

A comparative study between metoprolol tartrate and metoprolol succinate

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age older than 18 years old with Acute Coronary Syndrome diagnosis. Exclusion criteria: age less than 18 years old; severe pulmonary disease and

severe asthma; use of other beta blockers; use of calcium channel blocker, digoxin; II and III degree heart block; peripheral vascular disease and Diabetes Melitus.

Age

From **18 years** old to **90 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **56**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Kermanshah University of Medical Sciences

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

City

Kermanshah

Postal code

Approval date

2015-11-24, 1394/09/03

Ethics committee reference number

IR.KUMS.REC.1394.218

Health conditions studied

1

Description of health condition studied

Acute coronary syndrome

ICD-10 code

I24.9

ICD-10 code description

Acute Ischaemic Heart Disease

Primary outcomes

1

Description

Blood pressure

Timepoint

At admission until 72 hours

Method of measurement

mm Hg by mercuric manometer

2

Description

Heart rate

Timepoint

At admission until 72 hours

Method of measurement

By physician

Secondary outcomes

empty

Intervention groups

1

Description

Metoprolol tartrate, tablet 25-50mg, BID or QID.

Category

Treatment - Drugs

2

Description

Metoprolol succinate 23.75 or 47.5 mg OD or BID

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali hospital

Full name of responsible person

Dr. Maziar Rezvani Gil Kolaei

Street address

Imam Ali hospital, Shahid Beheshti blv

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Kermanshah University of Medical Sciences

Full name of responsible person

Kourosh Hamzeii

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

City

Kermanshah

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for research, Kermanshah 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**

Kermanshah University of Medical Sciences, Imam Ali Hospital

Full name of responsible person

Dr. Maziar Rezvani Gil Kolaee

Position

MD, Resident of Cardiology

Other areas of specialty/work**Street address**

Imam Ali Hospital, Shahid Beheshti Boulevard

City

Kermanshah

Postal code**Phone**

+98 83 3837 0252

Fax**Email**

maziar718@yahoo.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Reza Heidary Moghadam

Position

Fellowship of Interventional Cardiology

Other areas of specialty/work**Street address**

Imam Ali Hospital, Shahid Beheshti Boulevard

City

Kermanshah

Postal code**Phone**

+98 83 3837 0252

Fax**Email**

heidarymoghadam@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Maziar Rezvani Gil Kolaee

Position

MD, Resident of Cardiology

Other areas of specialty/work**Street address**

Imam Ali Hospital, Shahid Beheshti Boulevard

City

Kermanshah

Postal code**Phone**

+98 83 3837 0252

Fax**Email**

maziar718@yahoo.com

Web page address**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