

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Oral cyclosporine effect on myocardial damage heart

Protocol summary

Summary

Abstract To study the effect of cyclosporine oral myocardial damage during coronary artery bypass surgery in Golestan Hospital in the period 2017, 60 patients older than 18 years and below 80 years of age who were undergoing coronary artery bypass surgery and patients without liver or kidney failure or angina And was not using of drugs such as glibenclamide and nicorandil were enrolled and non randomly divided into two groups . After signing informed consent 4-12hr before surgery, patients with placebo or oral cyclosporine 2.5 mg per kg is administered. Intraoperative monitoring in patients undergoing cardiac and pressure. To assess the extent of myocardial injury CKMB and troponin I in patients before surgery and at 24, 48 and 72 blood samples taken after surgery. Blood tests also included preoperative hemoglobin, the red blood cell count and white, glomerular filtration hepatic transaminase and bilirubin . All patients before surgery and in the seventh day after the surgery will be performed echocardiography.

General information

Acronym

does not have

IRCT registration information

IRCT registration number: **IRCT2017031533056N2**

Registration date: **2017-06-21, 1396/03/31**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-06-21, 1396/03/31

Registrant information

Name

Marzye Dorra

Name of organization / entity

JundiShapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Ahvaz University of Medical Sciences

Expected recruitment start date

2017-01-19, 1395/10/30

Expected recruitment end date

2017-12-21, 1396/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Oral cyclosporine effect on myocardial damage heart

Public title

Effect of cyclosporine oral myocardial injury in patients undergoing coronary artery bypass surgery hospital in Ahvaz Golestan second half of 2017: a randomized controlled clinical trial

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: - All patients who undergoing coronary artery bypass surgery . - Patients over 18 years - willingness to participate in the study Exclusion criteria - patients over 85 years - patients with unstable angina - Patients with moderate to severe renal impairment (glomerular filtration rate less than mL / min / m2 45) - developing cirrhosis of the liver - Oral administration of drugs glibenclamide or nicorandil (due to drug

interactions).

Age

From **18 years** old to **85 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Not randomized

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

Single blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features

does not have

Secondary Ids

empty

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

Ahwaz JundiShapur University of Medical Sciences

Street address

Ethics committee of Ahwaz JundiShapur University of
Medical Sciences

City

Ahwaz

Postal code**Approval date**

2017-02-07, 1395/11/19

Ethics committee reference number

IR.AJUMS.REC.1395.784

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

Myocardial heart

ICD-10 code

151.5

ICD-10 code description

Myocardial degeneration

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

Troponin_I

Timepoint

Troponin I measurements before surgery and at 24hr,
48hr and 72hr after surgery

Method of measurement

After preparing the evaluation kit little troponin (cTnI) by
Golestan hospital laboratory

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

CKMB

Timepoint

CKMB measurements before surgery and at 24hr, 48hr
and 72hr after surgery

Method of measurement

CKMB measurements in the laboratory Golestan Hospital

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

four to twelve hours before surgery given to patients
cyclosporine capsules orally at a dose of 2.5 mg per kg
for a single Dose under normal conditions and maintain
general anesthesia and monitoring blood pressure and
ECG 2- four to twelve hours before surgery given to
patients placebo orally for a single Dose under normal
conditions and maintain general anesthesia and
monitoring blood pressure and ECG

Category

Treatment - Drugs

2**Description**

Four to twelve hours before surgery to patients given
placebo orally All stages of operation under normal
conditions and maintain general anesthesia and
monitoring blood pressure and electrocardiogram done

Category

Treatment - Drugs

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

The training center - Golestan hospital-Heart surgery

Full name of responsible person

Marzye Dorra

Street address

Cui Golestan - Golestan Hospital

City

ahwaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology
Development Jundishapur University of Medical
Sciences

Full name of responsible person

Doctor Behzad Sharif Makhmal zadeh

Street address

Ahwaz University Department of Research and
Technology Development

City

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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

Vice Chancellor for Research and Technology
Development Jundishapur 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**

Ahwaz JundiShapur University of Medical Sciences

Full name of responsible person

Seyed Mohammad hassan Adel

Position

Professor of Cardiology

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

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Student

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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