

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Evaluation of the effect of discontinuing beta-blocker drugs on dipyridamole myocardial perfusion imaging (DMPI) in patients who were on long-term beta-blocker therapy

Protocol summary

Summary

The current study is designed to evaluate the effect of discontinuing beta-blocker drugs on dipyridamole Myocardial Perfusion Imaging (MPI) in patients who are on long-term beta-blockade. One hundred and twenty patients with angiographically confirmed coronary artery disease (CAD), who are on long-term treatment (≥ 3 months) with therapeutic dose of a beta blocker, will enroll in this randomized clinical trial. Patients with a past history of asthma, second degree type 2 or third degree atrio-ventricular block, left ventricular ejection fraction less than 50%, previous angioplasty and/or coronary artery bypass graft are excluded from the study. The patients are allocated into two groups: Group A (n=60) in whom beta-blockade is discontinued for 72 hours before dipyridamole stress MPI and Group B (n=60) without discontinuation of beta-blockade prior to MPI. Considering the angiographic results as the gold standard, the sensitivity of MPI for the detection of CAD in each group is calculated based on 95% confidence interval (95%CI).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203041100N5**
Registration date: **2012-03-19, 1390/12/29**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-03-19, 1390/12/29

Registrant information

Name

Davood Beiki

Name of organization / entity

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University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Deputy of Research, Tehran University of Medical
Sciences

Expected recruitment start date

2012-02-20, 1390/12/01

Expected recruitment end date

2012-06-21, 1391/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of discontinuing beta-blocker drugs on dipyridamole myocardial perfusion imaging (DMPI) in patients who were on long-term beta-blocker therapy

Public title

Beta-blocker effect on myocardial perfusion scan

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: patients with angiographically

confirmed CAD (i.e. more than 50% diameter stenosis in at least one coronary artery or major branches), who are on long-term treatment (≥ 3 months) with therapeutic dose of a beta blocker. Exclusion criteria: patients with a past history of asthma, second degree type 2 or third degree atrio-ventricular block, left ventricular ejection fraction less than 50%, previous angioplasty and/or coronary artery bypass graft.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Tehran University of Medical Sciences

Street address

Keshavarz boulevard, Ghods str.

City

Tehran

Postal code**Approval date**

2006-11-20, 1385/08/29

Ethics committee reference number

132.8183

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

myocardial ischaemia

ICD-10 code

I20-I25

ICD-10 code description

Ischaemic heart diseases

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

Myocardial Perfusion

Timepoint

3 days after intervention

Method of measurement

Myocardial Perfusion Imaging (MPI)

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

Summed Rest Score (SRS)

Timepoint

After myocardial perfusion scan

Method of measurement

QPS software

2**Description**

Summed Stress Score (SSS)

Timepoint

After myocardial perfusion scan

Method of measurement

QPS software

3**Description**

Summed Difference Score (SDS)

Timepoint

After myocardial perfusion scan

Method of measurement

QPS software

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

Group A: in whom the beta-blocker agent is discontinued for 72h before Myocardial perfusion (MPI) scan.

Category

Diagnosis

2**Description**

Group B: without discontinuation of beta-blockers prior to MPI.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Research Institute for Nuclear Medicine, Tehran
University of Medical Sciences

Full name of responsible person

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of Research, Tehran University of Medical
Sciences

Full name of responsible person

Dr Akbar Fotouhi

Street address

Keshavarz boulevard

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy of Research, Tehran 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

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Full name of responsible person

Dr Babak Fallahi

Position

Associate Professor of Nuclear Medicine

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