

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Assessing the effects of melatonin on blood pressure and heart rate in patients undergoing elective coronary angiography?

Protocol summary

Summary

The aim of the study is assessing the role of melatonin in preventing the blood pressure and heart rate rise during coronary angiography. The patients who are candidates of elective coronary angiography according to current guideline and are not admitted with acute coronary syndrome and do not have history of hypertension will be enrolled. 134 patients will be randomly received 5 mg melatonin pills or placebo for five days before angiography. The heart rate and blood pressure will be recorded before angiography and during procedure in all patients. The recordings of both groups will be compared and we will see if melatonin administration before angiography can prevent the tachycardia and hypertension that often were observed during angiography.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201012105359N1**

Registration date: **2011-09-08, 1390/06/17**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2011-09-08, 1390/06/17

Registrant information

Name

Mohammad Alasti

Name of organization / entity

Jundishapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1445 7205

Email address

alastip@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Cardiovascular Research Center of Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2011-11-20, 1390/08/29

Expected recruitment end date

2012-11-20, 1391/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessing the effects of melatonin on blood pressure and heart rate in patients undergoing elective coronary angiography?

Public title

Is melatonin useful in patients whom underwent coronary angiography.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All patients who are candidate of elective coronary angiography according to current guideline (ACC/AHA guideline 1999) who are admitted at Imam Khomeini Hospital from 20.11.2011 till 20.11.2012)
Exclusion criteria: history of hypertension; patients with acute coronary syndrome

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **134**

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

Ahvaz Jundishapur University of Medical Sciences

Street address

Golestan

City

Ahvaz

Postal code

Approval date

2011-02-28, 1389/12/09

Ethics committee reference number

96

Health conditions studied

1

Description of health condition studied

Chronic coronary disease

ICD-10 code

125.8

ICD-10 code description

Chronic ischaemic heart disease, nonsecified

Primary outcomes

1

Description

Heart rate, blood pressure

Timepoint

before and during angiography

Method of measurement

manometer

Secondary outcomes

1

Description

side effects of melatonin

Timepoint

before angiography

Method of measurement

filling the form

Intervention groups

1

Description

The cases will be received Melatonin or placebo for 5 days before angiography(one pill each night).

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Mohammad Mahdian Nasab

Street address

Azadegan avenue

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Mohammad Alasti

Street address

Imam Khomeini Hospital

City

Ahvaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz 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

Phone

+98 61 1222 6721

Fax**Email**

alastip@gmail.com

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

Ahvaz Jundishapur University of Medical sciences

Full name of responsible person

mohammad Mehdian nasab

Position

head nurse

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

Imam Khomeini Hospital, Azadegan avenue

City

Ahvaz

Postal code**Phone**

+98 61 1222 6721

Fax**Email**

alastip@gmail.com

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

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Mohammad Alasti

Position

Assistant professor

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

Imam Khomeini Hospital, Azadegan avenue

City

Ahvaz

Postal code**Phone****Fax****Email**

alastip@gmail.com

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

Ahvaz Jundishapur University of Medical sciences

Full name of responsible person

Mohammad Alasti

Position

assistant professor

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

Imam Khomeini Hospital

City

Ahvaz

Postal code**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