

# 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

I25.8

### 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*

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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

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

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**Full name of responsible person**

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Assistant professor

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**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*