

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Comparison of the effect of oxygen and placebo on clinical outcomes in patients with non ST elevation acute coronary syndrome

Protocol summary

Summary

This is a triple-blind clinical trial that will be performed to evaluate the effects of supplemental oxygen on some clinical outcomes (consumption of analgesics, cardiac dysrhythmias, recurrence of chest pain and readmission) in patients with non ST elevation acute coronary syndrome in Bushehr Heart Center. Seventy patients with non ST-segment elevation acute coronary syndromes who have arterial oxygen saturation greater than 90 percent will be selected with purposive sampling and will be randomly divided into intervention (supplemental oxygen) and placebo (room air) groups. Patients in the intervention group will receive 4-6 liters per minute of oxygen by nasal cannula for up to 6 hours after admission. Patients in the control group will receive the same amount of air with the same way. The incidence of cardiac dysrhythmias in the first 24 hours, the frequency of chest pain and analgesic consumption in second day, and readmission in the first 30 days will be checked.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014081118768N1**

Registration date: **2014-11-24, 1393/09/03**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-11-24, 1393/09/03

Registrant information

Name

Fatemeh Heidari

Name of organization / entity

Arak University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Sciences

Expected recruitment start date

2014-08-23, 1393/06/01

Expected recruitment end date

2014-10-23, 1393/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of oxygen and placebo on clinical outcomes in patients with non ST elevation acute coronary syndrome

Public title

Comparison of the effect of oxygen and placebo in treatment of non ST elevation acute coronary syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age between 18-84 years; diagnosed with acute coronary syndrome with non ST segment elevation according to Branvald criteria; no clinical evidence of heart failure; no chronic lung disease or other respiratory problems; lack of cardiac arrest or cardiogenic shock before entering the hospital; oxygen saturation above 90% on admission; absence of

congenital heart disease. Exclusion criteria: Need for inotropic support; having ST elevation acute myocardial infarction; oxygen saturation less than 90% during hospitalization; emergency coronary angioplasty or emergency coronary artery bypass during hospitalization; death.

Age

From **18 years** old to **84 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Bushehr University of Medical Sciences

Street address

Bushehr University of Medical Sciences, Salman Farsi street, Bushehr, Bushehr, Iran

City

Bushehr

Postal code

7514633341

Approval date

2014-08-11, 1393/05/20

Ethics committee reference number

B-93-16-7

Health conditions studied

1

Description of health condition studied

Ischaemic heart diseases

ICD-10 code

I20.0, I21

ICD-10 code description

آنژین ناپایدار، انفارکتوس حاد میوکارد ساب اندوکارد

Primary outcomes

1

Description

Cardiac dysrhythmias

Timepoint

Continues over 24 hours

Method of measurement

Cardiac monitoring device

2

Description

Chest pain

Timepoint

24 - 28 - 32 - 36 - 40 - 44 - 48 hours

Method of measurement

check list, visual analogue scale

3

Description

The amount of narcotic analgesic

Timepoint

48 hours

Method of measurement

check list

Secondary outcomes

1

Description

Readmission due to cardiac problems

Timepoint

End of weeks 1- 2- 3- 4

Method of measurement

The phone call

2

Description

Visit due to cardiac problems

Timepoint

End of weeks 1- 2- 3- 4

Method of measurement

The phone call

Intervention groups

1

Description

Intervention group: at 6 hours after arriving at the hospital, oxygen will be given at a rate of 4 to 6 liters per minute by nasal cannula.

Category

Treatment - Drugs

2

Description

Control group: at 6 hours after arriving at the hospital, room air will be given at a rate of 4 to 6 liters per minute by nasal cannula.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Bushehr Heart Center

Full name of responsible person

Dr Daruosh Iranpur

Street address

Bushehr Heart Center, Moallem street, Bushehr, Bushehr, Iran

City

Bushehr

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Deputy of Arak University of Medical Sciences

Full name of responsible person

Mr.Babaie

Street address

University of Medical Sciences, Sardasht, Arak, Markazi, Iran

City

Arak

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Deputy of Arak 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

Arak University of Medical Sciences

Full name of responsible person

Fatemeh Heidari

Position

Bachelor of nursing

Other areas of specialty/work

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Full name of responsible person

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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