

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

20 Jun 2026

### The effect of oxygen in induce Preconditioning in patient undergoing Angioplasty

#### Protocol summary

##### Summary

The aim of this study was to assess the effect of oxygen in induction of preconditioning in patient undergoing angioplasty. In this single blind study, the patients were randomly divided in two groups interventional and control group. Thus interventional group deliver oxygen 2 hour before and 12 hour after angioplasty with re-breathing mask with flow of 8 liter/minute and after the angioplasty wite measure the result by cardiac enzyme such troponin and creatine kinase and chest pain . include criteria: one vessel with 70% stenosis- exclude criteria :deliver of oxygen in past 3 days : chest pain in past 3 days : COPD disease : prinzmental disease.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013081114068N2**

Registration date: **2013-10-11, 1392/07/19**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2013-10-11, 1392/07/19

##### Registrant information

###### Name

Asghar Mohamadi

###### Name of organization / entity

Lorestan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 84 2529 3204

###### Email address

asgharems115@yahoo.com

##### Recruitment status

**Recruitment complete**

##### Funding source

Lorestan University of Medical Sciences

##### Expected recruitment start date

2013-02-19, 1391/12/01

##### Expected recruitment end date

2014-02-20, 1392/12/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of oxygen in induce Preconditioning in patient undergoing Angioplasty

##### Public title

Reducecardiac cell injury in angioplasty

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion criteria : patient who have one coronary vessele wite 70% stenosis- Exclusion criteria : patient who have deliver of oxygen in past 3 days : patient who have chest pain in past 3 days : patient who have copd disease : patient who have prinzmetal disease

##### Age

No age limit

##### Gender

Both

##### Phase

N/A

##### Groups that have been masked

No information

##### Sample size

Target sample size: **36**

##### Randomization (investigator's opinion)

Randomized  
**Randomization description**  
**Blinding (investigator's opinion)**  
Single blinded  
**Blinding description**  
**Placebo**  
Used  
**Assignment**  
Parallel  
**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Lorestan University of Medical Sciences

##### Street address

Moalem Ave, Lorestan University of Medical Sciences,  
Khoramabad

##### City

Khoramabad

##### Postal code

6814993165

#### Approval date

2010-09-23, 1389/07/01

#### Ethics committee reference number

200/82204

## Health conditions studied

### 1

#### Description of health condition studied

angioplasty

#### ICD-10 code

I21

#### ICD-10 code description

myocardial infarction specified as acute or with a stated  
duration of 4 weeks (28 days) or less from onset

## Primary outcomes

### 1

#### Description

troponin enzyme

#### Timepoint

2 houer befor and 12 houer aftre

#### Method of measurement

with ramp aperatus

### 2

#### Description

ckmb enzyme

#### Timepoint

2 houer befor and 12 houer aftre

#### Method of measurement

with ramp aperatus

### 3

#### Description

crp protein

#### Timepoint

2 houer befor and 12 houer aftre

#### Method of measurement

aglutination way

## Secondary outcomes

### 1

#### Description

chest pain

#### Timepoint

imediatly after defflation balloon

#### Method of measurement

with number pain from 0 -10

## Intervention groups

### 1

#### Description

in interventional group oxygen deliver with rebreathing  
mask by 8 liter/minute with fio2 70 % in 2 houer befor  
and 12 houer after

#### Category

Treatment - Drugs

### 2

#### Description

in control group no deliver any medication

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Madani Hospital

##### Full name of responsible person

Asghar Mohamadi

##### Street address

khirabad Ave.Hospital Madani , Khoramabad

##### City

Khoramabad

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Lorestan University of Medical Sciences

**Full name of responsible person**

Shahin Raoofi

**Street address**

Khirabad Ave, Madani Hospital, Khoramabad

**City**

Khoramabad

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Lorestan 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**

Lorestan University of Medical Sciences

**Full name of responsible person**

Shahin Raoofi

**Position**

MSC

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

Lorestan University of Medical Sciences

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Asghar Mohamadi

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student of nursing

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**Web page address****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*