

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

Effect of body position on physiological indicators and electrocardiogram in patients with acute myocardial infarction

Protocol summary

Summary

Destruction of heart tissue due to decrease of coronary arteries circulation is called myocardial infarction (MI). Because of the importance of bed rest on physiological indices and myocardial oxygen demand determining an appropriate position can prevent side effects in these patients. Therefore, this study would have been done with purpose of determining the effect of body position on physiologic indices including blood pressure, heart rate, respiratory rate, oxygen saturation and electrocardiogram in patient with acute MI. Methodology: In this clinical trial study, 30 patients with acute MI admitted in CCU will be assessed. Physiological indicators and electrocardiogram will be assessed 15 minutes before and after supine, right and left lateral, semi-fowlers and fowlers position. Data collection instruments included questionnaire and check-list, electrocardiogram, pulse oximetry, barometer.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112248500N1**

Registration date: **2012-01-13, 1390/10/23**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-01-13, 1390/10/23

Registrant information

Name

Maryam Banansharifi

Name of organization / entity

Gonabad University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research Deputy of Gonabad University of Medical Sciences

Expected recruitment start date

2012-01-21, 1390/11/01

Expected recruitment end date

2012-04-20, 1391/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of body position on physiological indicators and electrocardiogram in patients with acute myocardial infarction

Public title

Effect of body position on physiological indicators and electrocardiogram in patients with acute myocardial infarction

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: 1- Patients with a diagnosis of myocardial infarction; 2 - the last 12 hours of their infarction. Exclusion criteria: history of thyroid and hormone disorders, diabetes, congestive heart failure, orthostatic hypotension, Cardiogenic shock, anemia, and fever, underlying lung disease, cardiopulmonary resuscitation, old acute myocardial infarction.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 30

Randomization (investigator's opinion)

N/A

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Gonabad University of Medical Sciences

Street address

Sidelines of the Asian Highway

City

Gonabad

Postal code

397

Approval date

2011-12-10, 1390/09/19

Ethics committee reference number

8/90

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

acute myocard infarction

ICD-10 code

I21

ICD-10 code description

Acute myocardial infarction

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

electrocardigram index

Timepoint

15 minutes before and 15 minutes after the changing position

Method of measurement

electrocardiogram

2**Description**

physiological index

Timepoint

15 minutes before and 15 minutes after the changing position

Method of measurement

pulseoximetry and barometre

Secondary outcomes

empty

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

Physiological indicators and electrocardiogram will be assessed in position which patient first had been met and this position will be assumed as the base position. Then patient will be placed in supine and after 15 minutes all indices will be measured again and patient will be back to basal position. This process will be repeated for right lateral, semi-fowler's and fowler's position.

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

22 Bahman hospital

Full name of responsible person

Maryam Banan Shariafi

Street address

Naser Khosrow Street

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Gonabad

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Research Deputy of Gonabad University of Medical Sciences

Full name of responsible person

Ali Ekrami

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City
Gonabad

Grant name
معاونت پژوهشی

Grant code / Reference number

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

Title of funding source
Research Deputy of Gonabad 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
Gonabad University of Medical Sciences

Full name of responsible person
Maryam Banansharifi

Position
Msc student in Medical Surgical Nursing

Other areas of specialty/work

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Person responsible for updating data

Contact

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