Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 be 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

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Name of organization / entity

Gonabad University of Medical Sciences

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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
palseoximetry 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
City
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
Street address
Sidelines of the Asian Highway

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

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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