

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of supine, semi sitting, and lateral positions on arterial blood gases results and vital signs in patients undergoing coronary artery bypass graft surgery

Protocol summary

Summary

This study aims to effect of supine, semi sitting and lateral positions on results of arterial blood gases and vital signs in coronary artery bypass graft surgery patients. inclusion criteria include: Age18-60 years, intubated Patients and undergoing mechanical ventilation, Fi o2=50%, hemodynamic stability, have intra-arterial line and exclusion criteria include: evidence of chest and spinal trauma, evidence of acute respiratory disease, intake extra liquid, Pump time>120 minute. research population consists of patients hospitalized in open heart surgery intensive care unit of Imam Khomeini Hospital, Ahvaz, who have undergone coronary artery bypass graft surgery. Sample size is 60. in this study, at first, all patients are lying in supine position and after 30 minute the arterial blood sample baseline is collected and vital signs are checked.then the patients are lying in the different positions: semi sitting, right and left lateral respectively for 30 minutes and at the end of period, the amount of 1cc arterial blood gases sample is drawn (in order to arterial blood gases analysis) and vital signs are recorded before and after the change position.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202149003N1**
Registration date: **2012-06-18, 1391/03/29**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-06-18, 1391/03/29

Registrant information

Name

Fahimeh Sabeti

Name of organization / entity

Abadan Faculty Medicine

Country

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Recruitment status

Recruitment complete

Funding source

Research Vice-Chancellor of Ahvaz University of Medical Sciences and Arvand International Division

Expected recruitment start date

2012-03-05, 1390/12/15

Expected recruitment end date

2012-05-04, 1391/02/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of supine, semi sitting, and lateral positions on arterial blood gases results and vital signs in patients undergoing coronary artery bypass graft surgery

Public title

The effect of different positions on arterial blood gases results and vital signs in patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age18-60year; intubated Patients and

undergoing mechanical ventilation; Fi O₂=50%, hemodynamic stability; have intra-arterial line; hemoglobin(Hb)>10 g/dl. Exclusion criteria: evidence of chest and spinal trauma; evidence of acute respiratory disease; intake extra liquid; Pump time>120 minute.

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ahvaz Jundishapur of Medical Sciences

Street address

Research Vice-Chancellor of Ahvaz Jundishapur
University of Medical Sciences, Golestan boulevard ,
university campus

City

Ahvaz

Postal code

6135715794

Approval date

2012-01-09, 1390/10/19

Ethics committee reference number

358

Health conditions studied

1

Description of health condition studied

CABG

ICD-10 code

I25.9

ICD-10 code description

ischaemic heart disease (chronic)

Primary outcomes

1

Description

Arterial blood gases results

Timepoint

After each change position(30 minute)

Method of measurement

Arterial blood gases analyzer(premier
3000(American)series machines-Radiometer)

2

Description

Vital signs

Timepoint

After each change position(30 minute)

Method of measurement

Recording of vital signs on monitor.Temperature using
tympanic digital thermometer

Secondary outcomes

1

Description

Age

Timepoint

Before intervention

Method of measurement

Recording of information in patient document

2

Description

Sex

Timepoint

Before intervention

Method of measurement

Observation

Intervention groups

1

Description

patients are lying in supine position and after 30 minute
the arterial blood sample is collected and vital signs are
checked.

Category

Treatment - Other

2

Description

patients are lying in semi sitting position and after 30
minute the arterial blood sample is collected and vital
signs are checked.

Category

Treatment - Other

3

Description

patients are lying in right lateral position and after 30 minute the arterial blood sample is collected and vital signs are checked.

Category

Treatment - Other

4

Description

patients are lying in left lateral position and after 30 minute the arterial blood sample is collected and vital signs are checked.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahvaz Imam Khomeini Hospital

Full name of responsible person

Tayebeh Mahvar

Street address

Ahvaz Imam Khomeini Hospital, Azadegan Street,Ahvaz

City

kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Vice-Chancellor of Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Dr Mostafa Fegghi

Street address

Research Vice-Chancellor of Ahvaz Jundishapur University of Medical Sciences, Golestan boulevard , university campus

City

Ahvaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Vice-Chancellor of Ahvaz Jundishapur University of Medical Sciences

Proportion provided by this source

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

2

Sponsor

Name of organization / entity

Arvand International Division, Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Dr Mohammad-Jafar Yadyad

Street address

Arvand International Division, International Airport, Abadan

City

Abadan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Arvand International Division, Ahvaz Jundishapur University of Medical Sciences

Proportion provided by this source

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

Abadan Faculty of Medicine

Full name of responsible person

Fahimeh Sabeti

Position

Faculty Member, MS

Other areas of specialty/work

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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

Person responsible for updating data

Contact

Name of organization / entity

Abadan Faculty of Medicine

Full name of responsible person

Fahimeh Sabeti