Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

A comparison of reduce pulmonary complications with early ambulation in two groups, 24 hours and 48 hours after admission to the ICU in patients with Coronary Artery Bypass Grafting (CABG)

Protocol summary

Summary

Purpose of this study is to reduce pulmonary complications in patients after Coronary Artery Bypass Grafting (CABG). Forty patients aged 30 to 65 years underwent Coronary Artery Bypass Grafting (CABG) and had no limitations to walking prior to surgery and their Ejection Fraction was more than 40%. Patients were randomly divided in to 2 groups. First group, 24 hours after surgery had drains postoperative, as well as other routine postoperative connections (e.g. drains and catheters) and started walking for about 20 meters and then returned to bed. These patients also carried a Pulse Oximeter and were monitored for any possible hemodynamic instability were transferred to the bed. Half hour after walking, then every 2 hours, arterial blood gas (ABG) and vital Signs (BP, HR) were monitored, this process were repeated after 6 hours. IN second group of patients 48 hours after spending in ICU (Intensive Care Unit) all catheters and drains removed, prior to transferred to surgical ward on wheelchair, according to ward routine they can walking. While in ICU, these patients underwent Spirometry as well as active movements in bed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201401014345N2**
Registration date: **2014-03-25, 1393/01/05**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-03-25, 1393/01/05

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Guilan University of Medical Sciences

Expected recruitment start date

2014-03-11, 1392/12/20

Expected recruitment end date

2014-09-01, 1393/06/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison of reduce pulmonary complications with early ambulation in two groups, 24 hours and 48 hours after admission to the ICU in patients with Coronary Artery Bypass Grafting (CABG)

Public title

Reduce pulmonary complications in patients after after Coronary Artery Bypass Grafting (CABG)

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : Patients aged 30 to 65 years; Ejection fraction was more than 40% Exclusion criteria : Arrhythmias; Hypoxia; Hypotension

Age

From **30 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Guilan University of Medical Sciences

Street address

Shahid Beheshti freeway

City

Rasht

Postal code

4193833697

Approval date

2013-12-07, 1392/09/16

Ethics committee reference number

1920341320

Health conditions studied

1

Description of health condition studied

Early ambulation after CABG

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Arterial Blood Gas

Timepoint

Half hour then every 2 hours after mobilization

Method of measurement

AVL

Secondary outcomes

empty

Intervention groups

1

Description

Intervention1: Early ambulation 24 hours after surgery in ICU

Category

Prevention

2

Description

Intervention2: Early ambulation 48 hours after surgery in ICU

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Heshmat Hospital

Full name of responsible person

Ali Mirmansouri

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chanceller for Research of Guilan University of Medical Sciences

Full name of responsible person

Abdolrasool Sobhani

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?
Yes
Title of funding source
Vice Chanceller for Research of Guilan 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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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