

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

The effect of Prone Position on Oxygenation in patient with Acute Respiratory failure under Mechanical Ventilation

Protocol summary

Summary

The purpose of the study: Effect of Prone Position on Oxygenation in patients with acute respiratory failure under mechanical ventilation. Design: Experimental, Before and After intervention. The Study population: Patients with acute respiratory failure under mechanical ventilation Target sample size: 54 patients Blinding: Not blinding Randomization: Not randomized Inclusion criteria: lack of chronic lung disease; Non-Cardiac Origin Pulmonary Disease; no evidence of left atrial hypertension. Exclusion criteria: adverse change in the number heart rate; an adverse change in respiratory rate; adverse change in blood pressure; reducing the amount of oxygen in arterial blood; need to change the ventilation mode; the incidence of serious cardiac arrhythmia including ventricular tachycardia. Intervention: Put the patient in the prone position. Intervention time: Three days for each patient. The primary outcome: Arterial blood oxygen saturation. The secondary outcomes: The pressure of arterial oxygen to the percentage of inspired oxygen.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017052534130N1**

Registration date: **2017-06-29, 1396/04/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-06-29, 1396/04/08

Registrant information

Name

Ziba Hajivand Solymani

Name of organization / entity

Ahvaz University of Medical Sciences

Country

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Phone

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Ahvaz University of Medical Sciences

Expected recruitment start date

2017-05-26, 1396/03/05

Expected recruitment end date

2017-07-21, 1396/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Prone Position on Oxygenation in patient with Acute Respiratory failure under Mechanical Ventilation

Public title

The effect of Prone Position on improving Patients with Respiratory failure

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: lack of chronic lung disease; non-cardiac origin pulmonary disease; no evidence of left atrial hypertension. Exclusion criteria: adverse change in the number heart rate; an adverse change in respiratory rate; adverse change in blood pressure; reducing the

amount of oxygen in arterial blood; need to change the ventilation mode; the incidence of serious cardiac arrhythmia including ventricular tachycardia.

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: **54**

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

Ethics committee of Ahvaz University of Medical Sciences

Street address

Ahvaz University of Medical Sciences, Golestan Alley, Esfand St., Ahvaz, Khuzestan

City

Ahvaz

Postal code

6135715794

Approval date

2017-05-05, 1396/02/15

Ethics committee reference number

IR.AJUMS.REC.1396.96

Health conditions studied

1

Description of health condition studied

Acute respiratory failure

ICD-10 code

J96.0

ICD-10 code description

Acute respiratory failure

Primary outcomes

1

Description

Arterial Blood Oxygen Saturation

Timepoint

30 minutes after Supine Position and 30 minutes after Prone Position

Method of measurement

Arterial Blood Gases

Secondary outcomes

1

Description

the pressures of arterial oxygen to the percentage share of inspired oxygen

Timepoint

30 minute after supine position and 30 minute after prone position

Method of measurement

Arterial blood gases

Intervention groups

1

Description

prone position

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital of Golestan Ahvaz

Full name of responsible person

Ziba Hajivand Solymani

Street address

Golestan Hospital, Golestan Alley, Ahvaz

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Ahvaz University of Medical Sciences

Full name of responsible person

Behzad Sharif Makhmal Zadeh

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Vice chancellor for research, Ahvaz University of Medical Sciences, Golestan Alley, Esfand St., Ahvaz,

Khuzestan
City
Ahvaz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research, Ahvaz 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

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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