

# 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

Iran (Islamic Republic of)

##### Phone

+98 61 3336 2535

##### Email address

hajivand.z@ajums.ac.ir

##### 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

##### Street address

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**

**Name of organization / entity**

Ahvaz University of Medical Sciences

**Full name of responsible person**

Ziba Hajivand Solymani

**Position**

Nursing Student

**Other areas of specialty/work**

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**Other areas of specialty/work**

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**Fax**

**Email**

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**Web page address**

**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*