

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Effect of change position on endotracheal and intra-abdominal pressure.

#### Protocol summary

##### Summary

Aim of this study is a survey effect of changes in body position on endotracheal tube cuff pressure and intra-abdominal pressure. 60 Patients who admitted to critical care unit and have inclusion criteria include, age above 18 years old, connect to mechanical ventilation at least 24 hours and stable clinical condition are selected. Patients who have abnormality in airway and asynchronize with mechanical ventilation are excluded. At first in supine position endotracheal cuff pressure and intra-abdominal pressure are measured. Then the patients are randomly placed on positions: 30 degree, 45 degree, 30 degree front of mechanical ventilation and 30 degree backward to mechanical ventilation. Endotracheal tube cuff pressure and intra-abdominal pressure are measured after 5 minute pause in each position. Then effect of change position on intra-abdominal pressure and endotracheal cuff pressure are evaluated.

#### General information

##### Acronym

Effect of changes in body position on the endotracheal tube cuff pressure and intra-abdominal press

##### IRCT registration information

IRCT registration number: **IRCT201509176481N7**

Registration date: **2015-10-22, 1394/07/30**

Registration timing: **prospective**

Last update:

Update count: **0**

##### Registration date

2015-10-22, 1394/07/30

##### Registrant information

###### Name

Mohsen Soleimani

###### Name of organization / entity

Semnan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 23 3365 4190

###### Email address

soli257@semums.ac.ir

###### Recruitment status

**Recruitment complete**

###### Funding source

Semnan University of Medical Sciences

###### Expected recruitment start date

2015-11-21, 1394/08/30

###### Expected recruitment end date

2017-08-21, 1396/05/30

###### Actual recruitment start date

empty

###### Actual recruitment end date

empty

###### Trial completion date

empty

###### Scientific title

Effect of change position on endotracheal and intra-abdominal pressure.

###### Public title

Effect of change position on endotracheal cuff pressure and intra-abdominal pressure.

###### Purpose

Prevention

###### Inclusion/Exclusion criteria

Inclusion criteria: Age above 18 years old; Connection to mechanical ventilation at least 24 hours; Richmond sedation score -3 to -5; and Exclusion criteria: Hemodynamic instability; Body temperature above 38 or below 35 centigrade; Lack of coordination between patient and mechanical ventilation; Abnormal disorder in airway

###### Age

From **18 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)

Single blinded

## Blinding description

## Placebo

Not used

## Assignment

Single

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Semnan University of Medical Sciences

##### Street address

Semnan University of Medical Sciences, 5km  
Damghan road, Semnan, Iran.

##### City

Semnan

##### Postal code

##### Approval date

2015-08-25, 1394/06/03

##### Ethics committee reference number

IR.Semums.Rec.1394.68

## Health conditions studied

### 1

#### Description of health condition studied

Patients with mechanical ventilation

#### ICD-10 code

J96.0

#### ICD-10 code description

Acute respiratory failure

## Primary outcomes

### 1

#### Description

Endotracheal cuff pressure

#### Timepoint

5 minutes after change position

#### Method of measurement

Gauge of pressure- cmH2o

## Secondary outcomes

### 1

#### Description

Intra-abdominal pressure

#### Timepoint

5 minutes after change position

#### Method of measurement

column of water- cmH2O

## Intervention groups

### 1

#### Description

Change position of bed to 30 degree, 45 degree and change position of body to front of mechanical ventilation and back to mechanical ventilation apparatus.

#### Category

Prevention

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Hossein Hospital in Shahrood

##### Full name of responsible person

Rasool Ashrafi

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Semnan University of Medical Sciences, 5km  
Damghan road, Semnan, Iran

##### City

Semnan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Semnan University of Medical Sciences

##### Full name of responsible person

Dr. Ali Rashidipoor

##### Street address

Semnan University of Medical Sciences, End of Basij  
Avenue, Semnan, Iran.

##### City

Semnan

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Semnan 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*

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## Person responsible for general inquiries

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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*