

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

The effect of 60 degree head up position on preventing pneumonia in mechanically ventilated intensive care unit patients

Protocol summary

Summary

Objective: to assess the effect of 60 degree head up position on preventing pneumonia in mechanically ventilated intensive care unit patients. Sixty patients aged 20 to 60 years will be randomly allocated to two groups; routine-control (45 degree head up position) and intervention (60 degree head up position). Pneumonia, respiratory rates and volumes will be recorded in a check list. Diagnosis of pneumonia will be confirmed by a specialist in intensive care unit regarding clinical and laboratory criteria.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201106146801N1**
Registration date: **2011-08-27, 1390/06/05**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-08-27, 1390/06/05

Registrant information

Name

Hadi Hassankhani

Name of organization / entity

Tabriz university of medical sciences and health services

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

School of nursing and midwifery, Tabriz University of Medical Sciences

Expected recruitment start date

2011-06-03, 1390/03/13

Expected recruitment end date

2011-11-21, 1390/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of 60 degree head up position on preventing pneumonia in mechanically ventilated intensive care unit patients

Public title

The effect of 60 degree head up position on preventing pneumonia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients between 20 and 60 years of age; Tracheal intubated under mechanical ventilation: MODE = Synchronized Intermittent Mandatory Ventilation (SIMV), Respiratory Rate (RR) = 6-12/min, Positive End-Expiratory Pressure (PEEP) = 2.5-7.5, Tidal Volume (VT) = 6-8 ml / kg, Fio2 = <50; hospitalized for 7 days; ICU admission Glasgow Coma Scale (GCS) <9; gastric feeding through a nasogastric tube, absence of fever and leukocytosis, and any infection (based on blood cultures and tracheal secretions) at the beginning of the study. Exclusion criteria: chest surgery (thoracotomy); Acute Respiratory Distress Syndrome (ARDS); Chronic Obstructive Pulmonary Disease (COPD); obesity, diabetes, cancer, contraindications to the vault

open position; patients with neck and spinal trauma.

Age

From **20 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)

Randomized

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

Tabriz University of medical sciences and health services

Street address

Golgasht

City

Tabriz

Postal code

1950/4/5

Approval date

2011-05-22, 1390/03/01

Ethics committee reference number

5/4/1950

Health conditions studied

1

Description of health condition studied

mechanically ventilated intensive care unit patient`s pneumonia

ICD-10 code

J18.9

ICD-10 code description

Pneumonia, unspecified

Primary outcomes

1

Description

pneumonia

Timepoint

1 week

Method of measurement

clinical and lab measurments

Secondary outcomes

empty

Intervention groups

1

Description

head of bed elevation

Category

Prevention

2

Description

no intervention in control group

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz university of medical sciences and health services

Full name of responsible person

hadi hassankhani

Street address

School of Nursing Midwifery, South shariati ave

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences, School of Nursing Midwifery

Full name of responsible person

Dr Ebrahimi

Street address

Tabriz School of Nursing Midwifery, South Shariati St

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz University of Medical Sciences, School of Nursing
Midwifery

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**

Sina Hospital

Full name of responsible person

Shahzad Akbarzadeh

Position

Nurse

Other areas of specialty/work**Street address**

Sina hospital

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Position

PhD in Nursing education

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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