

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Evaluation of the effect of lateral position on arterial blood O₂ and saturation percent in patients with ischemic CVA with ventilator associated pneumonia

Protocol summary

Study aim

Evaluation of the effect of lateral position on arterial blood O₂ content and O₂ saturation in ischemic CVA patients with ventilator-associated pneumonia

Design

Clinical trial without control group, with single group, not blinded, nonrandomized group

Settings and conduct

In this clinical trial study, after coordinating with hospital authorities and ICU ward and providing necessary explanations and consent of patient relatives, 50 ICU patients were selected by convenience sampling method that meet the inclusion criteria mentioned in the study. The method of preparing the patients is that in the supine state, the percentage of hemoglobin saturation is measured by pulse apparatus and ABG (arterial blood gas sample) is prepared from the patient and then changed laterally for two The hour is restored to the percent saturation of hemoglobin and ABG. The samples will be sent to the laboratory under standard conditions and after data analysis and analysis, the results will be presented in thesis and paper.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients 50-70 years old with ischemic CVA; Patients undergoing mechanical ventilation in the ICU; Lack of multiple trauma; No restriction on position change; Exclusion criteria: Instability of vital signs in the new position; Having underlying illness and problem; Oxygen saturation less than 80%

Intervention groups

All patients under study were included in the intervention group.

Main outcome variables

Arterial blood oxygen pressure (FiO₂); Oxygen saturation (O₂sat)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171030037093N29**

Registration date: **2020-01-21, 1398/11/01**

Registration timing: **prospective**

Last update: **2020-01-21, 1398/11/01**

Update count: **0**

Registration date

2020-01-21, 1398/11/01

Registrant information

Name

Sadra Ansari pour

Name of organization / entity

Shahrekord University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 31 3650 3487

Email address

st_ansari.s@skums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-01-30, 1398/11/10

Expected recruitment end date

2020-07-31, 1399/05/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of lateral position on arterial blood O₂ and saturation percent in patients with ischemic CVA with ventilator associated pneumonia

Public title

The effect of supine position on arterial blood O₂ and saturation percentage in patients with ischemic CVA with ventilator-induced pneumonia

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria:

Patients 50-70 years old with ischemic CVA Patients undergoing mechanical ventilation in the ICU Lack of multiple trauma No restriction on position change

Exclusion criteria:

Instability of vital signs in the new position Having underlying illness and problem Oxygen saturation less than 80%

Age

From **50 years** old to **70 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Not randomized

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 Shahrekord University of Medical Sciences

Street address

Vice chancellor for research, Building No. 2, University headquarters, Ayatollah Kashani Blvd

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8815713492

Approval date

2018-09-23, 1397/07/01

Ethics committee reference number

IR.SKUMS.REC.1397.152

Health conditions studied

1

Description of health condition studied

Ventilator associated pneumonia

ICD-10 code

J95.851

ICD-10 code description

Ventilator associated pneumonia

Primary outcomes

1

Description

Arterial blood oxygen pressure (FiO₂)

Timepoint

For two hours after the supine state

Method of measurement

Pulse Oximeter

2

Description

Oxygen saturation (O₂sat)

Timepoint

For two hours after the supine state

Method of measurement

Pulse Oximeter

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: All patients fall into one group and arterial blood pressure and oxygen saturation are assessed in both supine and lateral states.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayatollah Kashani Hospital

Full name of responsible person

Farokh Yadollahi

Street address

Ayatollah Kashani Hospital, Nursing Street,
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shahrekord University of
Medical Sciences

Full name of responsible person

Dr. seyed Kamal Solati(Associate Professor of
Psychology)

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Vice chancellor for research, Building No. 2,
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kamal_solati@yahoo.com

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, Shahrekord University of
Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Farokh Yadollahi

Position

Assistant Professor of Anesthesiology

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to

make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Information about the main outcome can be shared.

When the data will become available and for how long

Start the access period 4 months after publishing the results

To whom data/document is available

Researchers working in academia

Under which criteria data/document could be used

Use data to complete clinical trial studies

From where data/document is obtainable

Ayatollah Kashani Hospital

What processes are involved for a request to access data/document

After the investigation of researcher request and presentation of required documents will be accessible.

Comments