

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Comparison of effect of open and close endotracheal suctioning on ventilator associated pneumonia in the patients admitted to intensive care unit unit

Protocol summary

Summary

The object of study is to compare the effect of open and close suction system on prevention of Ventilator Associated Pneumonia. After approval of the ethics committee of the Tabriz university of the medical sciences, 96 patients will be recruited. Written informed consents will be obtained from the patients or their relatives. This project will be conducted in General ICUs of Imam Reza and Shohada Hospitals within 14 months. Patients will be divided into two groups randomly. In the Open suction group, suction will be performed using single-use catheter as the routine of the wards for maximum of 15 seconds. In the closed suction group, suction will be performed using TYE VARE system and the suction catheter will be replaced every 48 hours. In both groups, prophylaxis standards against VAP will be followed. The following data will be collected for all patients: Gender, age, number of aspirations per day, number of the days being under ventilator, mortality, APACHE score. VAP diagnosis will be made based on having CIPS criteria (CLINICALLY INFECTION PULMONARY SCORE) while being under mechanical ventilation for 48 hours.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203072582N6**
Registration date: **2012-06-27, 1391/04/07**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-06-27, 1391/04/07

Registrant information

Name

Ata Mahmoodpoor

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 914 116 0888

Email address

mahmoodpoora@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Research chancellor of Tabriz University of Medical Sciences

Expected recruitment start date

2012-06-01, 1391/03/12

Expected recruitment end date

2013-06-01, 1392/03/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of effect of open and close endotracheal suctioning on ventilator associated pneumonia in the patients admitted to intensive care unit unit

Public title

Comparison of effect of open and closed suctioning in prevention of pneumonia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age>18years old; need of mechanical ventilation for at least 48 hours
Exclusion criteria: no satisfaction of patients family

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **96**

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 SIENCE

Street address

DESTINATION OF DANESHGAH AVE.

City

TABRIZ

Postal code

Approval date

2012-05-28, 1391/03/08

Ethics committee reference number

9134

Health conditions studied

1

Description of health condition studied

Pneumonia

ICD-10 code

J17

ICD-10 code description

Pneumonia in diseases classified elsewhere

Primary outcomes

1

Description

ventilator associated pneumonia

Timepoint

Days 1 and 2 , days 3 and 4, days 5 to 9, days 10 to 14, days 15 to 19, and days 20 to 24

Method of measurement

CIPS criteria (CLINICALLY INFECTION PULMONARY SCORE)

Secondary outcomes

1

Description

Mortality

Timepoint

Days 1 and 2 , days 3 and 4, days 5 to 9, days 10 to 14, days 15 to 19, and days 20 to 24

Method of measurement

being alive or dead

Intervention groups

1

Description

Control group(open suction): suction will be performed by single use routine catheters every one hour during ICU stay. Duration of suction will be less than 15 seconds.

Category

Prevention

2

Description

Intervention group(Closed Suction): suction will be performed with closed system(Tyecare) every one hour during ICU stay.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

SHOHADA HOSPITAL/ICU WARD

Full name of responsible person

Ata Mahmoodpoor

Street address

ELGOLI AVE.

City

TABRIZ

2

Recruitment center

Name of recruitment center

EMAMREZA HOSPITAL/ICU WARD

Full name of responsible person
Ata Mahmoodpoor
Street address
DESTINATION OFDANESHGAH AVE.
City
TABRIZ

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
TABRIZ UNIVERCITY OF MEDICAL SCIENCE
Full name of responsible person
Alireza Ostad Rahimi
Street address
Golgasht street
City
TABRIZ
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
TABRIZ UNIVERCITY OF MEDICAL SCIENCE
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
Tabriz University of Medical Sciences
Full name of responsible person
Ata Mahmoodpoor
Position
Assistant Professor, Director of ICU
Other areas of specialty/work
Street address
General ICU, Shohada Hospital, El-goli street
City
Tabriz
Postal code
Phone
+98 41 1385 1117
Fax
Email
amahmoodpoor@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
DR.ATA MAHMOODPOOR
Position
Assistant Professor
Other areas of specialty/work
Street address
General ICU, Shohada Hospital, El-Goli street
City
TABRIZ
Postal code
Phone
+98 41 1385 1117
Fax
Email
amahmoodpoor@yahoo.com
Web page address

Person responsible for updating data

Contact

Name of organization / entity
TABRIZ UNIVERSITY OF MEDICAL SCIENCE
Full name of responsible person
MAJID TAGIZADEH
Position
ASSISTANT OF ANESTHESIOLOGY
Other areas of specialty/work
Street address
Operative room, Emam Reza hospital, Golgasht street
City
TABRIZ
Postal code
Phone
+98 41 1334 7054
Fax
Email
MAJID_53552@YAHOO.COM
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