Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Effect of open and closed suction on Ventilator-associated Pneumonia and hemodynamic status in intensive care patients

Protocol summary

Summary

The aim of this study was to determine the effects of closed and open suctioning on VAP incidence and hemodynamic status of the patient is admitted to the ICU. . This clinical trial is being conducted in1391-2. Before endotracheal suctioning the patient with 100% oxygen for 2 minutes will be Haypraksyzhnh heart rhythm (in terms of sine or non-sine), heart rate, blood pressure, Sytvl, diastolic, and arterial oxygen saturation of arterial blood by medium voltageAfter suctioning the patient and the ventilator is attached again., And closed suction group, a closed suction catheter into the endotracheal tube Vntylatvrv attached and the other end is connected to the suction pipe. After opening valves, catheters, endotracheal tube guide and discharge Nlatvn to be evacuated. And immediately, 2 and 5 minutes after suctioning above recorded for 2 minutes 3 to 5 breaths with 100% oxygen peroxide are hyper. Also, after 72 hours of having VAP patients are assessed by a doctor

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013012312251N1**
Registration date: **2013-03-18, 1391/12/28**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-03-18, 1391/12/28

Registrant information

Name

Nasim Alipour

Name of organization / entity

Hamadan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Lorestan University of Medical Sciences, Research

Expected recruitment start date

2013-02-28, 1391/12/10

Expected recruitment end date

2013-05-31, 1392/03/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of open and closed suction on Ventilator-associated Pneumonia and hemodynamic status in intensive care patients

Public title

Effect of open and closed suction on Ventilator-associated Pneumonia and hemodynamic status

Purpose

Prevention

Inclusion/Exclusion criteria

Criteria include: the need for endotracheal intubation and mechanical ventilation with positive pressure, age 80-15 years, the time from admission to admission to the intensive care unit of the hospital in less than 4 hours, the lack of heart disease - cardiovascular, half-sitting position, nasal tube - stomach in all patients, the level of consciousness of less than 9, but did not receive a specific antibiotic routine antibiotics (cefazolin),

suctioning of secretions and require much more than. Infection, pneumonia, respiratory failure, and underlying disease that increases the risk of pneumonia. Normal cardiac rhythm, arterial oxygen saturation greater than 90%, and Heart rate between 100 to 60 beats per minute before suctioning ,and the calibration of a ventilator and monitor all devices. Exclusion criteria Patients: a history of smoking, apart from mechanical ventilation and less than 72 hours Ayntvbh of death within 48 hours, received a heart drug during the project, the need for antibiotics and certain additional antibiotics routine (cefazolin) during the project increase during the discharge plan.

Age
From **15 years** old to **80 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **86**

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
Hamedan University of Medical Sciences

Street address
Hamedan -shahied fahmideh street-University of Medical Sciences

City
Hamedan

Postal code
65178

Approval date
2013-03-12, 1391/12/22

Ethics committee reference number
16/35/9/4635/د/پ

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
After 72 hours of endotracheal intubation

Method of measurement
CIPS criteria

2

Description
Hemodynamic status

Timepoint
Before suctioning immediately, 2 and 5 minutes after suctioning

Method of measurement
Cardiorespiratory monitoring device

Secondary outcomes

empty

Intervention groups

1

Description
In the control group (open system suctioning) of tracheal tube and the ventilator was removed by entering the sterile catheter into the endotracheal tube to drain Discharge .After suctioning the patient and the ventilator is attached again. During endotracheal suctioning is about 10-5 s. Such measures during These measures is done during the first 72 hours of hospitalization in the intensive care unit and If needed.

Category
Prevention

2

Description
In the intervention group, the suctioning using a closed system(TYE CARE mark) During the first 72 hours of hospitalization in the intensive care unit and if a patient needs to be done. During endotracheal suctioning is about 10-5 seconds.

Category
Prevention

Recruitment centers

1

Recruitment center
Name of recruitment center
Besat Hospital in Hamedan
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Lorestan University of Medical Sciences, Research
Full name of responsible person
Doctor Mohammad Hassan Kaydi
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Grant name
124409010
Grant code / Reference number
1192
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Lorestan University of Medical Sciences, Research
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
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Lorestan University of Medical Sciences
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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