

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jun 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 in 1391-2. 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, Systolic, diastolic, and arterial oxygen saturation of arterial blood by medium voltage. After 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

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Name of organization / entity

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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

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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

Full name of responsible person

nasim alipour

Street address

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khoramabad

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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Khoramabad

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

Name of organization / entity

Lorestan University of Medical Sciences

Full name of responsible person

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Position

student master critical care Nursing

Other areas of specialty/work

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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