

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

The effect of Eucalyptus Incense on Prevention of Ventilator-Associated Pneumonia in Patients of Intensive Care Unit

Protocol summary

Summary

In these study 80 intubated patients who hospitalized in the intensive care unit will be divided into two intervention and control group. To intervention group 6 ml Eucalyptus extract at a 5 percent concentration and control group 10 ml NaCl 9 percent will be given as inhalation three times a day. Patients will be monitored and the incidence of ventilator-associated pneumonia will be checked by Clinical Pulmonary Infection Score (CPIS) every day. The prevention effect of ventilator-associated pneumonia early and late will be compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017010727819N2**

Registration date: **2017-01-27, 1395/11/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-01-27, 1395/11/08

Registrant information

Name

Rasool Kawyan Nejad

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kermanshah University of Medical Sciences

Expected recruitment start date

2017-01-20, 1395/11/01

Expected recruitment end date

2017-07-23, 1396/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Eucalyptus Incense on Prevention of Ventilator-Associated Pneumonia in Patients of Intensive Care Unit

Public title

The effect of Eucalyptus Incense on Prevention of Ventilator-Associated Pneumonia in Patients of Intensive Care Unit

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria for the study included: not having lung infections and lung disease on admission, avoiding the use of immunosuppressive drugs, aged 40 to 70 years, not having sensitivity to Eucalyptus examining case histories and their relatives, patients intubated less than 6 hours, Not taking of antibiotics, No history of diabetes, level of consciousness (GCS) 3 to 8 Exclusion criteria: patient transport, hemodynamic disorders, liver complications, occurrence of urticaria, petechiae, itch and allergy symptoms eucalyptus, extubation and mortality

Age

From **40 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Kermanshah University of
Medical Sciences

Street address

Shahid Beheshti Blvd

City

kermanshah

Postal code**Approval date**

2017-01-11, 1395/10/22

Ethics committee reference number

592

Health conditions studied**1****Description of health condition studied**

Pneumonia

ICD-10 code

J17.8

ICD-10 code description

Pneumonia in other diseases classified elsewhere

Primary outcomes**1****Description**

Ventilator Associated Pneumonia

Timepoint

Before and after the intervention.

Method of measurement

CPIS measure

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: 4 cc Eucalyptus 5% with 6 mL of normal saline through the nebulizer kit every 8 hours daily during 20 to 30 minutes is given.

Category

Prevention

2**Description**

Control group: 10 mL of sterile water via nebulizer kits inspired every 8 hours daily during 20 to 30 minutes is given.

Category

Placebo

Recruitment centers**1****Recruitment center****Name of recruitment center**

Emam-Reza Hospital

Full name of responsible person

HasanAli Karimpour

Street address

Bagh-e Abrisham, Emam-Reza Hospital

City

Kermanshah

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research, Kermanshah University of
Medical Sciences

Full name of responsible person

Koroush Hamzehee

Street address

Shahid Beheshti Blv

City

Kermanshah

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, Kermanshah University of

Medical Sciences
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
Kermanshah university of medical sciences
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Person responsible for updating data

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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