

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of persica and chlorhexidine on the prevention of ventilator Associated pneumonia

Protocol summary

2017-04-22, 1396/02/02

Summary

Pneumonia is a common cause of morbidity and mortality in patients under mechanical ventilation in ICU. One of the ways to decrease these infections is Selective decontamination of the digestive tract and oropharynx which decrease oropharyngeal colonization in the stomach and intestines. However, this method may cause antibiotics resistance. In recent years the use of herbal medicines due to antibacterial, antifungal, anticancer and less side effects are common for oral health. In this study the effect of Persica as herbal remedies without side effects compared with chlorhexidine in prevention of ventilator-associated pneumonia in ICU patients will be evaluated. This study is a double blind randomized clinical trial. The study population included patients admitted to the ICU that are under to mechanical ventilation. In the first group, 10cc of chlorhexidine 2.0% will be used as a mouthwash for 6 minutes. In the second group instead of chlorhexidine , 10cc persica will be used for 6 minutes. The incidence of ventilator-associated pneumonia will be measured by CPIS score every three days as the primary outcome. The number of days under mechanical ventilation, days of hospitalization in ICU and mortality and complications between the two groups will be evaluated as secondary outcomes.

Registrant information

Name

Farshad Hassanzadeh Kiabi

Name of organization / entity

Mazandaran University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Mazandaran University of Medical Science

Expected recruitment start date

2015-09-01, 1394/06/10

Expected recruitment end date

2016-09-01, 1395/06/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of persica and chlorhexidine on the prevention of ventilator Associated pneumonia

Public title

Comparing the effect of persica and chlorhexidine on the prevention of ventilator Associated pneumonia in patient admitted in ICU

Purpose

Prevention

Inclusion/Exclusion criteria

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017022032676N1**

Registration date: **2017-04-22, 1396/02/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

Inclusion Criteria: Age between 18 and 65; be intubated; be under mechanical ventilation in 48 hours after admission. Exclusion criteria: dissatisfaction with the patient at any time in the study; Re - intubation; autoimmune diseases and malignancies; history of radiotherapy and the use of immunosuppressive drugs such as corticosteroids and immunosuppressive diseases; mouthwash allergy history; asthma and allergic rhinitis and dermatitis; previous use of antibiotics in the hospital in two weeks before; history of any antimicrobial mouthwash two weeks before hospitalization; Oral mucositis and periodontal disease; patients with pneumonia; pregnant women; history of lung disease

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee for Biological Research of
Mazandaran University of Medical Science

Street address

Valis Asr Bolovar, Sari

City

Sari

Postal code

Approval date

2017-01-30, 1395/11/11

Ethics committee reference number

IR.MAZUMS.REC.95.2356

Health conditions studied

1

Description of health condition studied

ventilator associated pneumonia

ICD-10 code

J13; J14;

ICD-10 code description

Pneumonia due to *Streptococcus pneumoniae*;
Pneumonia due to *Haemophilus influenzae*; Bacterial pneumonia, not elsewhere classified

Primary outcomes

1

Description

pneumonia

Timepoint

3 days

Method of measurement

CPIS

Secondary outcomes

1

Description

complication

Timepoint

3 days

Method of measurement

examination

2

Description

intubation duration

Timepoint

extubation

Method of measurement

examination

3

Description

ICU mortality

Timepoint

dead time

Method of measurement

observation

Intervention groups

1

Description

chlorhexidin mouth wash

Category

Treatment - Drugs

2

Description

Persica mouth wash

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Dr Shah Heydari

Street address

Imam Khomeini Hospital, Razi Street, Sari

City

Sari

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Mazandran University of Medical Science

Full name of responsible person

Dr Ahmad Ali Enayati

Street address

Moallem square, Sari

City

Sari

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, Mazandran University 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

Department of Anesthesiology, Mazandaran University of Medical Science

Full name of responsible person

Frashad Hassanzadeh Kiabi

Position

Assistant Professor

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Person responsible for scientific inquiries

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Farshad Hassanzadeh Kiabi

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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