Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

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

Protocol summary

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.

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

2017-04-22, 1396/02/02

Registrant information

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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

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 Chanceller for Research, Mazandran University of Medical Sciense
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 Chanceller for Research, Mazandran University of Medical Sciense
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
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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