Clinical Trial Protocol
Iranian Registry of Clinical Trials

28 May 2026

Comparing the effect of Ranitidine and Sucralfate on the incidence of ventilator-associated pneumonia in ICU patients.

Protocol summary

Summary

The aim of this study was to compare the effect of Ranitidine and Sucralfate on the decrease in the incidence of ventilator-associated pneumonia in patients admitted to the intensive care unit. This is a randomized double-blinded clinical trial performed in two groups of 74. Inclusion criteria: patients aged between 15 and 75 years old ; men or women ; has the sofa score 4 to 10 at the time of admission; require intubation for more than 48 hours. Exclusion criteria : History of recent pulmonary infection or gastrointestinal bleeding; Early discharge of ICU ; Extubation less than 48 hours ; Patients Has any immunodeficiency. Population is categorized randomly into two groups. group A, Sucralfate dose of 1 g, every 6 hours and the B group Ranitidine with a dose of 150 mg every 8 hours will be given. In order to diagnose VAP, Centers for Disease Control and Prevention (CDC) pneumonia are compared in two groups. Patients should withdraw from the study until 8 days after intubation and then decide on diagnosis.

General information

Acronym

VAP: ventilator-associated pneumonia

IRCT registration information

IRCT registration number: **IRCT2017080835577N1**
Registration date: **2017-10-10, 1396/07/18**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-10-10, 1396/07/18

Registrant information

Name

Amin Yousefelahi

Name of organization / entity

Anesthesiology gruop of rafsanjan

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Recruitment status

Recruitment complete

Funding source

vice chancellor for research & technology of Rafsanjan university of medical sciences.

Expected recruitment start date

2014-08-27, 1393/06/05

Expected recruitment end date

2017-03-19, 1395/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of Ranitidine and Sucralfate on the incidence of ventilator-associated pneumonia in ICU patients.

Public title

Effect of Ranitidine and Sucralfate on the incidence of ventilator-associated pneumonia

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: patients aged between 15 and 75 years old ; men or women ; has the sofa score 4 to 10 at the time of admission; require intubation for more than 48 hours. Exclusion criteria : History of recent pulmonary infection or gastrointestinal bleeding; Early discharge of

ICU ; Extubation less than 48 hours ; Patients Has any immunodeficiency.

Age
From **14 years** old to **74 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **148**

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 vice chancellor for research & technology of Rafsanjan Univercity of Medical Scienc

Street address
Research and Technology Dept. Building No. 3, Central Office of Rafsanjan University of Medical Sciences Rafsanjan, Imam Ali Blvd.

City
rafsanjan

Postal code

Approval date
2016-01-27, 1394/11/07

Ethics committee reference number
IR.RUMS.REC.1394.11

Health conditions studied

1

Description of health condition studied
ventilator-associated pneumon

ICD-10 code
J95.8

ICD-10 code description
Other postprocedural respiratory disorders

Primary outcomes

1

Description
Amount of serum ESR

Timepoint
Daily for 6 days

Method of measurement
Serum ESR test

2

Description
Amount of serum white blood cells

Timepoint
Daily for 6 days

Method of measurement
Cell blood count test

3

Description
Amount of arterial oxygen concentration

Timepoint
Daily for 6 days

Method of measurement
Arterial blood gas

4

Description
Type of Nasotracheal discharge

Timepoint
Daily for 6 days

Method of measurement
Nasotracheal discharge culture

5

Description
Incidence of VAP

Timepoint
Daily for 6 days

Method of measurement
culture of discharge

Secondary outcomes

1

Description
Amount of body temperature

Timepoint
Every 12 hours for 6 days

Method of measurement
With sub axillary thermometer

2

Description
Amount of serum cratinin

Timepoint

Daily for 10 days

Method of measurement

Serum cratinin test

Intervention groups

1

Description

Tablet Sucralfate 1 gram, 1 gram per 6 hours, for 10 days, made by Kimidaru co.

Category

Treatment - Drugs

2

Description

Tablet Ranitidine 150 mg, 150 mg every 8 hours, for 10 days, made by Kimidaru co.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Anesthesiology Department of Ali ibn Abitaleb Hospital

Full name of responsible person

Street address

City

rafsanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

vice chancellor for research & technology of Rafsanjan University of Medical Sciences

Full name of responsible person

Monavar Naderi

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Research and Technology Dept. Building No. 3, Central Office of Rafsanjan University of Medical Sciences Rafsanjan, Imam Ali Blvd.

City

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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 & technology of Rafsanjan 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

Department of Anesthesiology, Rafsanjan University of Medical Sciences

Full name of responsible person

Amin Yousefelahi

Position

medical intern

Other areas of specialty/work

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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