

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

The effect of clarithromycin in preventing ventilator associated pneumonia

Protocol summary

Summary

This study was done to assess the effect of clarithromycin in preventing ventilator-associated pneumonia. A total of 60 patients older than 18 years who were admitted in ICU ward were recruited and randomly assigned to receive either placebo or clarithromycin. Those with neutropenia, AV block and HIV infection were excluded from the study. Patients who had positive culture of Tracheobronchial smears and new consolidation or infiltration in chest radiograph were diagnosed with ventilator associated pneumonia. The frequency of pneumonia was compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014121620341N1**

Registration date: **2014-12-31, 1393/10/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-12-31, 1393/10/10

Registrant information

Name

Mohammad Reza Mirjalili

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 3725 8770

Email address

dr.mirjalili@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2013-05-04, 1392/02/14

Expected recruitment end date

2013-12-07, 1392/09/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of clarithromycin in preventing ventilator associated pneumonia

Public title

Does administration of clarithromycin prevent pneumonia due to ventilator use?

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: ICU admission Exclusion criteria: Neutropenia (Absolute Neutrophil Count less than 500 cells/ μ l); HIV infection; second or three degree atrioventricular (AV) block; Receiving oral corticosteroids in the past month

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

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 Shahid sadoughi University of Medical Sciences

Street address

Shahid Sadoughi University of Medical Sciences, Yazd, Iran

City

Yazd

Postal code

Approval date

2012-02-13, 1390/11/24

Ethics committee reference number

2483

Health conditions studied

1

Description of health condition studied

ventilator-associated pneumonia

ICD-10 code

J18.9

ICD-10 code description

Pneumonia, unspecified

Primary outcomes

1

Description

pneumonia

Timepoint

48 hours

Method of measurement

Tracheobronchial smear culture, Colony forming units more than 10000000

Secondary outcomes

1

Description

APACHI score

Timepoint

day 1, 5, and 10

Method of measurement

physical exam

Intervention groups

1

Description

Intervention: oral clarithromycin 500 mg/BD Control: placebo

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Sadoughi Hospital

Full name of responsible person

Mohammad Reza Mirjalili

Street address

Shahid Sadoughi Hospital, Riazi sq., Yazd

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Mohammad Reza Mirjalili (Dean of the University)

Street address

Shahid Sadoughi University of Medical Sciences, Bahonar sq, Yazd, Iran

City

Yazd

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Shahid Sadoughi 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
Shahid Sadoughi University of Medical Sciences
Full name of responsible person
Mohammad Reza Mirjalili
Position
ICU fellowship/faculty member
Other areas of specialty/work
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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

Contact

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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