Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Comparing the effect of of ranitidine and pantoprazole on the occurrence of ventilated associated pneumonia

Protocol summary

Summary

According to this fact that hospitalized patients in Intensive Care Unit (ICU) are susceptible to stress ulcer, they are given Ranitidin or Pantoprazol routinely. These two drugs not only prevent stress ulcer but also have effect in preventing from Ventilator Associated Pneumonia (VAP). In this study we compare this effect of these two drugs.180 intubated hospitalized patients in Imam Reza Emergency Department who are connected to mechanical ventilator and have no active lung disease are chosen. They will continue their treatment in ICU. They are divided into two groups: group A: 90 patients, group B: 90 patients. These two groups treatment with Ranitidin or Pantoprazol is started from the first day of hospitalization in ED and will continue until the end of hospitalization time in ICU. Routinely and weekly a CXR will be taken for showing new opacities until the releasing time. Diagnostic criteria for VAP are: new infiltration in CXR plus two criteria of these three criteria: 1.fever higher than 38.5, 2.leukocytes more than 100000, 3.pus in suctioning the tracheal tube secretion. The final diagnosis for VAP is based on the culture of the tracheal tube secretion. The existence of more than 100000 bacterial colony counts will be positive. The incidence of VAP in the specific period of time will be documented and the results will be given to the statistician specialist for analysis.

General information

Acronym

ventilator_associated pneumonia

IRCT registration information

IRCT registration number: **IRCT2014112611956N3**
Registration date: **2015-03-16, 1393/12/25**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-03-16, 1393/12/25

Registrant information

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Morteza Talebi Doluee
Name of organization / entity
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Mashhad University of Medical Sciences

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-08-23, 1394/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of of ranitidine and pantoprazole on the occurrence of ventilated associated pneumonia

Public title

Comparing the effect of of ranitidine and pantoprazole on the occurrence of ventilated associated pneumonia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteriona: hospitalized intubated patients in

intensive care unit of Imam Reza hospital during the study. Exclusion criteria: patients showing allergic reactions to ranitidin and pantoprazol; patients with active lung disease before receiving these two drugs; patients with active gastrointestinal bleeding at the beginning of our study; immune compromised patients or the history of receiving antibiotics or any factor that changes the immune condition toward VAP.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **180**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Mashhad University of Medical Sciences

Street address
Mashhad University of Medical Sciences, Daneshgah street

City
Mashhad

Postal code
913753316

Approval date
2014-11-01, 1393/08/10

Ethics committee reference number
930275

Health conditions studied

1

Description of health condition studied
pneumonia

ICD-10 code
J18.9

ICD-10 code description
Pneumonia, unspecified

Primary outcomes

1

Description
Decreased incidance of ventilator associated pneumonia in intubated patients under mechanical ventilation

Timepoint
End of stay in the ICU

Method of measurement
Diagnostic criteria for VAP are: new infiltration in CXR plus two criteria of these three criteria:1.fever higher than 38.5,2.leukocytes more than 100000,3.pus in suctioning the tracheal tube secretion.the final diagnosis for VAP is based on the culture of the tracheal tube secretion.the existence of more than 100000 bacterial colony count will be positive

Secondary outcomes

1

Description
Fever more than 38.5 degree

Timepoint
Every day

Method of measurement
Thermometer

2

Description
Lekusytosis more than 10000

Timepoint
Every day

Method of measurement
CBC

3

Description
Colony count more than 100000 in tracheal tube culture

Timepoint
Every day

Method of measurement
Tracheal tube specimen culture

4

Description
New infiltration in CXR

Timepoint
Every week

Method of measurement
Chest X Ray

Intervention groups

1

Description
First group(intervention): 90 patients; from the beginning until the end of hospitalization intravenous Ranitidine 50 mg will be given three times a day and after tolerating oral nutrition will be continued 150 mg twice a day.
Category
Treatment - Drugs

2

Description
Second group (control):90 patients; starting treatment with intravenous pantoprazole 40Mg twice a day from the beginning of hospitalization and will be continued until the releasing time. After tolerating oral nutrition pantoprazole 40mg oral will be given to patients through nasogastric tube (intracapsular granules are extracted and washed with 20 cc water through nasogastric tube).
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
ICU, Imam Reza Hospital
Full name of responsible person
Street address
City
Mashhad

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Dr Mohsen Tafaghodi
Street address
Ghoreishi building, Mashhad University of Medical Sciences, Daneshgah street,
City
Mashhad
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
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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