Clinical Trial Protocol
Iranian Registry of Clinical Trials

02 Jun 2026

Comparison of two methods of continuous infusion and bullous intermittent administration of IV Ranitidine on gastric PH in patients admitting to the surgical ICU

Protocol summary

Summary

Propose: Comparison of two methods of continuous infusion and bullous intermittent administration of IV Ranitidine on gastric PH in patients admitting to the surgical ICU. Design and criteria: This study is prospective, randomize, Single blind and clinical trial, 70 patients were randomly divided into two groups of 35 patients (The nurse was blind about the drug). Intervention group 1: Ranitidine 50 mg IV bolus injections at the first time and then three bolus doses were administered 50 mg every 8 hours for 24 hours. .The second Intervention group received the ampoule for intravenous ranitidine 6/25 mg in the hours after the bolus injection 50 mg (at the time) used. Both groups received an equal amount of 200 mg of the drug. Inclusion criteria: All patients aged over 18 years admitted to the ICU after surgery .Exclusion criteria: Pregnancy; H 2-blocker therapy for 8 hours before starting the study; treatment with antacids before starting the study; renal disease. Primary outcome: gastric PH (Before treatment and then every 2 hours for 24 hours was measured with PH measurements) and administration of ranitidine.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201409178384N4**
Registration date: **2014-11-19, 1393/08/28**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-11-19, 1393/08/28

Registrant information

Name
Arash Peivandi Yazdi
Name of organization / entity
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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Mashhad University of Medical sciences

Expected recruitment start date

2013-08-11, 1392/05/20

Expected recruitment end date

2014-05-10, 1393/02/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of two methods of continuous infusion and bullous intermittent administration of IV Ranitidine on gastric PH in patients admitting to the surgical ICU

Public title

Comparison of two methods of continuous infusion and bullous intermittent administration of IV Ranitidine on gastric PH

Purpose

Diagnostic

Inclusion/Exclusion criteria
Inclusion criteria: All patients aged over 18 years admitted to the ICU after surgery. Exclusion criteria: Pregnancy; H 2-blocker therapy for 8 hours before starting the study; treatment with antacids before starting the study; renal disease
Age
No age limit
Gender
Both

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **70**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
70

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Mashhad University of Medical Sciences
Street address
Ghoreishi apartment, Daneshgah street, Mashhad
City
Mashhad
Postal code
Approval date
2013-07-27, 1392/05/05
Ethics committee reference number
920252

Health conditions studied

1

Description of health condition studied
Gastric PH
ICD-10 code
K31.8
ICD-10 code description
Other specified diseases of stomach and duodenum

Primary outcomes

1

Description
Gastric PH
Timepoint
Before treatment and then every 2 hours for 24 hours.
Method of measurement
PH measurements

2

Description
Administration of ranitidine in intermittent bolus
Timepoint
In the first, then every 8 hours for 24 hours
Method of measurement
Intermittent bolus

3

Description
Administration of ranitidine as a continuous infusion
Timepoint
In the first then each hour
Method of measurement
Continuous infusion

4

Description
When the PH is upper than 4
Timepoint
Every 2 hours
Method of measurement
PH measurements

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group 1: Ranitidine 50 mg IV bolus injections at the first time and then three bolus doses were administered 50 mg every 8 hours.
Category
Treatment - Drugs

2

Description
The second Intervention group received the ampoule for intravenous ranitidine 6/25 mg in the hours after the bolus injection 50 mg (at the time) used.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Reza Hospital
Full name of responsible person
Dr Arash Peivandi Yazdi
Street address
Department of anesthesia, Imam Reza Hospital, Ibne Sina Street
City
Mashhad

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research, Mashhad University of Medical sciences
Full name of responsible person
Mohsen Tafaghodi
Street address
Ghoreishi apartment, Daneshgah street, Mashhad
City
Mashhad
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, 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
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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