

# 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

Mashhad University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 51 1852 5209

###### Email address

peivandia@mums.ac.ir

##### 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

**Full name of responsible person**

Dr Arash Peivandi Yazdi

**Position**

Assistant professor

**Other areas of specialty/work****Street address**

Department of anesthesia, Imam Reza Hospital, Ibne Sina Street

**City**

Mashhad

**Postal code****Phone**

+98 51 3852 5209

**Fax****Email**

peivandia@mums.ac.ir

**Web page address**

## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Dr Arash Peivandi Yazdi

**Position**

Assistant professor

**Other areas of specialty/work****Street address**

Department of anesthesia, Imam Reza Hospital, Ibne Sina Street

**City**

Mashhad

**Postal code****Phone**

+98 51 3852 5209

**Fax****Email**

peivandia@mums.ac.ir

**Web page address**

## Person responsible for updating data

#### Contact

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Dr Arash Peivandi Yazdi

**Position**

Assistant professor

**Other areas of specialty/work****Street address**

Department of anesthesia, Imam Reza Hospital, Ibne Sina Street

**City**

Mashhad

**Postal code****Phone**

+98 51 3852 5209

**Fax****Email**

peivandia@mums.ac.ir

**Web page address**

## 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*