

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Comparison the effect of two nasogastric feeding methods, monitoring and not monitoring residual gastric volume on risk of ventilator-associated pneumonia

Protocol summary

Study aim

Comparison the effect of two methods of NG feeding, monitoring and not monitoring residual gastric volume on risk of ventilator-associated pneumonia

Design

Clinical trial with a control group with sample size of 138 people was allocated randomly by random number table in two groups of intervention and control.

Settings and conduct

The study was conducted in ICU of Golestan Hospital of Ahvaz. In the intervention group, NG feeding was performed with gastric secretion measurements and did not measure in the control group.

Participants/Inclusion and exclusion criteria

Inclusion criteria: hospitalization in ICU, connected to ventilator and nutrition by NGT/ Exclusion criteria: patients with renal failure; patients with pneumonia history of abdominal surgery; pregnant patients

Intervention groups

Intervention group: patients received NG feeding after the measurement of gastric secretion volume based on international guidelines. Control group: patients received NGT feeding in a routine manner without the volume of residual gastric secretion measurement.

Main outcome variables

pneumonia

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170118032029N3**

Registration date: **2018-05-20, 1397/02/30**

Registration timing: **prospective**

Last update: **2018-05-20, 1397/02/30**

Update count: **0**

Registration date

2018-05-20, 1397/02/30

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3373 8319

Email address

khalafi-a@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-22, 1397/04/01

Expected recruitment end date

2018-11-22, 1397/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of two nasogastric feeding methods, monitoring and not monitoring residual gastric volume on risk of ventilator-associated pneumonia

Public title

Effect of monitoring residual gastric volume on pneumonia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Hospitalization in ICU Connected to ventilator Nutrition by NGT

Exclusion criteria:

Patients with renal failure Patients with pneumonia History of abdominal surgery Pregnant patients

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **138**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization was done using random number table. The first sample obtained from table was allocated in the intervention group and the next sample in the control group. This method continued until the end of the sampling.

Blinding (investigator's opinion)

Not 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 of Ahvaz Jundishapur University of Medical Sciences

Street address

Golestan Blv, Ahvaz Jundishapur University of Medical Sciences

City

Ahvaz

Province

Khuzestan

Postal code

15794-61357

Approval date

2018-02-03, 1396/11/14

Ethics committee reference number

IR.AJUMS.REC.1396.945

Health conditions studied**1****Description of health condition studied**

Pneumonia

ICD-10 code

J15

ICD-10 code description

Bacterial pneumonia, not elsewhere classified

Primary outcomes**1****Description**

Pneumonia

Timepoint

Measuring the incidence of pneumonia in patients on days 3 and 5 after starting NG feeding

Method of measurement

modified Clinical Pulmonary Infection Score (mCPIS)

Secondary outcomes

empty

Intervention groups**1****Description**

Patients in the intervention group received NG feeding after the measurement of gastric secretion volume based on international guidelines.

Category

Prevention

2**Description**

Control group: patients received NGT feeding in a routine manner without the volume of residual gastric secretion measurement.

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Golestan hospital

Full name of responsible person

Maedeh Barkhordari

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Golestan Blv, Ahvaz

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Sponsors / Funding sources

1

Sponsor**Name of organization / entity**

Ahvaz University of Medical Sciences

Full name of responsible person

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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

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact**Name of organization / entity**

Ahvaz University of Medical Sciences

Full name of responsible person

Simin Jahani

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Student

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to

make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable