Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

The comparative effects of erythromycin and ginger extract on gastric residual volume in hospitalized patients in intensive care unit.

Protocol summary

Summary

This is a single-blind, randomized clinical trial study with purpose of comparing the effects of erythromycin with ginger extract on gastric residual volume in patients of intensive care unit .Inclusion criteria included: age 18 to 75 years, feeding through a nasogastric or orogastric tube and patients under mechanical ventilation and exclusion criteria included: sensitivity to the ginger or erythromycin, taking corticosteroids, active bleeding or patients at risk of bleeding. The research population consisted of patients under mechanical ventilation in the intensive care unit. The sample size is 90 patients who will randomly allocate with using a block in the control group (erythromycin) and intervention group (Ginger). The gastric residual volume will be measured before each time feeding and if gastric residual volume was more than 200 cc after an hour re-examined, Patients in the control and intervention groups will take place; Erythromycin syrup to patients in the control group and ginger extract to patient in the intervention group will be given 4 doses per day. Gastric residual volume will be recorded and after reaching the gastric residual volume to less than 200 cc can increase the volume of the patient's diet. These Medications up to full feeding continue, and then will stop.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201505257494N13**
Registration date: **2015-07-31, 1394/05/09**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-07-31, 1394/05/09

Registrant information

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Mazandaran University of Medical Science

Expected recruitment start date

2015-06-10, 1394/03/20

Expected recruitment end date

2015-09-11, 1394/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparative effects of erythromycin and ginger extract on gastric residual volume in hospitalized patients in intensive care unit.

Public title

Ginger effect on gastric emptying rate of ICU patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 18 to 75 years ; fed through stomach catheter ; a medical illness and neurological (the study of internal intensive care unit) ; mechanically

ventilated patients ; over 24 hours of admission to the ICU (the according to the standards of feeding patients should be started within 48 to 24 hours after admission to the ICU). Exclusion criteria: any food allergies recorded in the patient's case history sheet of reactions to medication during the study ; a history of drug use increase of bowel movements ; pregnancy ; lactation ; particularly corticosteroids and taking any immunosuppressive medicine ; cancer ; disease and gastrointestinal ulcers ; active bleeding or patients at risk of bleeding because of (the effects of ginger in the Inhibition of the synthesis of thromboxane) ; history of gallstones (due to the effects of ginger on Stone building) ; the Occurrence of intestinal paralysis ; use of laxatives.

Age
From **18 years** old to **75 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

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
Mazandaran University of Medical Science

Street address
Moalem Street, Moalem Square, Sari

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Sari

Postal code
4817844718

Approval date
2015-07-05, 1394/04/14

Ethics committee reference number
IR.MAZUMS.REC.94

Health conditions studied

1

Description of health condition studied
gastric residual volume

ICD-10 code
K31.9

ICD-10 code description
Disease of stomach and duodenum, unspecified

Primary outcomes

1

Description
Gastric residual volume

Timepoint
Before each feeding through gastric tube

Method of measurement
With using a 60 cc gavage syringe

Secondary outcomes

empty

Intervention groups

1

Description
Intervention: Ginger extract (aroomin- Jasmine drug, Iran) 2 g (every 120 drops of the drug equivalent to 1 gram), 4 times a day until the gastric residual volume reach to less than 200 ml.

Category
Treatment - Drugs

2

Description
Control: erythromycin syrup (Tehran chemistry, Iran) 200 mg per 5 mL, 2.5 mg / kg, 4 times a day until the gastric residual volume reach to less than 200 ml.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Ayatollah Ruohani Hospital

Full name of responsible person
Seyede Zahra Mirshabani

Street address
Farmer Street, Worker squer, Babol

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mazandaran University of Medical Sciences
Full name of responsible person
Dr Ahmad Ali Enayati
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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
Mazandaran 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

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Person responsible for updating data

Contact

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