

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of Ginger extract on gastric residual volume in patients with mechanical ventilation hospitalized in intensive care unit

Protocol summary

Summary

This study will investigate the effect of ginger extract on gastric residual volume (GRV) in patients with mechanical ventilation hospitalized in intensive care units. A total of twenty six patients, aged 18-60 years old, who are admitted in ICU due to any medical or surgical problem, will be randomly assigned into intervention or control group. All of the patients will be gavaged with standard food for six days. The patients in the intervention group will receive 3 ml ginger extract plus 40ml water through NGT twice a day from the third day. The patients in the control group will only receive 43 ml water as placebo. Gastric residual volume GRV will be measured daily for six days and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201009094722N2**

Registration date: **2011-04-26, 1390/02/06**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-04-26, 1390/02/06

Registrant information

Name

Mitra Hekmatafshar

Name of organization / entity

MScs of Nursing

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research and Technology Deputy, Golestan University Of Medical Sciences

Expected recruitment start date

2011-02-20, 1389/12/01

Expected recruitment end date

2011-07-23, 1390/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Ginger extract on gastric residual volume in patients with mechanical ventilation hospitalized in intensive care unit

Public title

The effect of Ginger extract on gastric residual volume in patients with mechanical ventilation hospitalized in intensive care unit

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: mechanical ventilation for less than 48 hrs, patients with nasogastric tube feeding (NGT), age 18-60 years old, presence of medical or surgical problems hospitalized in intensive care unit Exclusion criteria: Presence of gallstone disease, pregnancy, breast feeding, active bleeding, lesion in gastrointestinal tract, malignancy, hypoglycemia, hyperglycemia, consumption of any medication affecting gastrointestinal motility during two weeks prior to the study or during research period

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **26**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Other

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Golestan University Of Medical Sciences, Gorgan, Iran

Street address

Golestan University of medical Sciences, Bouyeh
School of Nursing & midwifery, Shastkola Road,
Gorgan

City

Gorgan

Postal code**Approval date**

2011-01-30, 1389/11/10

Ethics committee reference number

2907/35/گ/پ

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

Ischaemic heart diseases

ICD-10 code

I23. I25

ICD-10 code description

Chronic ischaemic heart disease, Chronic ischaemic heart disease,

2**Description of health condition studied**

Cerebrovascular diseases

ICD-10 code

I63, I65,

ICD-10 code description

Cerebral infarction, Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction , Other cerebrovascular diseases

3**Description of health condition studied**

Chronic lower respiratory diseases

ICD-10 code

J40, J41,

ICD-10 code description

Chronic lower respiratory diseases

4**Description of health condition studied**

Hypertensive diseases

ICD-10 code

I10, I11,

ICD-10 code description

Essential (primary) hypertension , Hypertensive heart disease ,Secondary hypertension

5**Description of health condition studied**

Diseases of the nervous system

ICD-10 code

G35

ICD-10 code description

Demyelinating diseases of the central nervous system

6**Description of health condition studied**

Diseases of the circulatory system

ICD-10 code

I63, I66

ICD-10 code description

Cerebral infarction

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

gastric residual volume

Timepoint

Every 3 hrs exactly before doing gavage

Method of measurement

by using 50cc gavage syringe

Secondary outcomes**1****Description**

The amount of energy received

Timepoint

Every 24 hours

Method of measurement

the amount of received gavage food (ml) is converted to calorie

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

Intervention group: 3ml ginger extract plus 40ml water through NGT, twice a day, will be added to the special food for the feeding via NG tube.

Category

Treatment - Drugs

2**Description**

Control group: 43 ml water, twice a day, as placebo, will be added to the special food for the feeding via NG tube.

Category

Placebo

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

Panj-Azar Teaching Hospital

Full name of responsible person

Mitra Hekmatafshar

Street address

Golestan University of medical Sciences, Bouyeh School of Nursing & midwifery, Shastkola Road, Gorgan

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Golestan University Of Medical Sciences, Gorgan, Iran

Full name of responsible person

Dr Mohsen Aarabi

Street address

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Gorgan

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Golestan University Of Medical Sciences, Gorgan, Iran

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**

Golestan University Of Medical Sciences, Gorgan, Iran

Full name of responsible person

Mitra Hekmatafshar

Position

M.Sc Student of Critical Care Nursing

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Golestan University Of Medical Sciences, Gorgan, Iran

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Faculty Member

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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