

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Comparison of the Effects of Enteral Feeding Through Bolus and Continuous Method on Physiologic and Mtabolic Criteria in ICU Patients

Protocol summary

Summary

The aim of this study was to compare the effects of enteral feeding through bolus method and continuous method on blood sugar and pre albumin level among ICU inpatients in 2013. Fifty subjects were selected by convenient sampling in ICU wards of Alzahra hospital, Isfahan, Iran and randomly assigned to two groups of study and control in this clinical trial. The subjects in study received infusion pump feeding while the control group received bolus feeding for 72hr. Blood sugar was checked each four hr for 72 hr and pre albumin was assessed on the first and the fourth day in two groups. In study group, mean blood sugar significantly decreased on the fourth day, compared to the first, and the third day.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015020220912N1**

Registration date: **2015-04-06, 1394/01/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-06, 1394/01/17

Registrant information

Name

Mohsen Shahriari

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 31 3792 2915

Email address

shahriari@nm.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences

Expected recruitment start date

2013-06-19, 1392/03/29

Expected recruitment end date

2013-10-17, 1392/07/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the Effects of Enteral Feeding Through Bolus and Continuous Method on Physiologic and Mtabolic Criteria in ICU Patients

Public title

Nutrition Support in ICU Ward Inpatients

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: unable to swallow food orally; had the possibility of bolus or continuous feeding methods; had similar indications for both methods; had no fistula, necrosis or obstruction in intestinal; had not surgery of gastrointestinal system; had not peritonitis and diabetes. Exclusion criteria: discharge or death before 72 hr; change in clinical situation; no interest for continues in research.

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: 50

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

Isfahan University of Medical Sciences

Street address

Nursing and Midwifery Faculty, Isfahan University of Medical Sciences, Hezarjrib Ave.

City

Isfahan

Postal code

Approval date

2012-09-22, 1391/07/01

Ethics committee reference number

390458

Health conditions studied

1

Description of health condition studied

Symptoms and signs concerning food and fluid intake

ICD-10 code

R63.6

ICD-10 code description

Insufficient intake of food and water due to self neglect

Primary outcomes

1

Description

Blood Sugar, Prealbumine

Timepoint

First Day, Second Day, Third Day, Fourth Day

Method of measurement

Blood Sample

Secondary outcomes

1

Description

Gastric Functional Residual Volume

Timepoint

First Day, Second Day, Third Day, Fourth Day

Method of measurement

Gastric residual volume Measurement

Intervention groups

1

Description

control group: Bolus feeding by 1 kcal per ml of Enshure solution using a syringe applied every 4 hours.

Category

Other

2

Description

intervention group: continues feeding by 1 kcal per ml of Enshure solution using a pump applied in 24 hours.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Isfahan Alzahara Hospital

Full name of responsible person

Mohsen Shahriari

Street address

ICU Ward, Alzahara Hospital, Sofheh Ave.

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan University of Medical Sciences

Full name of responsible person

Mohsen Shahriari

Street address

Isfahan University of Medical Sciences, Hezarjrib Ave., Isfahan

City

Isfahan

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Isfahan 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

Isfahan University of Medical Sciences

Full name of responsible person

Mohsen Shahriari

Position

Associated professor

Other areas of specialty/work

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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