# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

17 Sep 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 Suger, 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 Measurment

## 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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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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*