

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

The efficacy of erythropoietin in the treatment of anemia in ICU patients

Protocol summary

Summary

The aim of the study was to evaluate the efficacy of erythropoietin in the treatment of anemia in patients hospitalized in ICU. Our study is a randomized single-blind clinical study. In this study after selection of patients based on inclusion and exclusion criteria, their data will be formed as a check list. Inclusion criteria; age of 18 and above, Hematocrite more than 38% , Hospitalization in ICU for more than 7 days Exclusion criteria; Uncontrolled hypertension, Uncontrolled seizure, Grade 3 and above burns, Pregnancy or breast feeding, Dialysing patients, The possibility of discharge from the hospital in less than 48 hours, Pulmonary embolism, Deep Vein Thrombosis and Chronic hypercoagulopathy The total volume of the study is 70 people in the 2 group of 35 people. In this study erythropoietin will be used to intervention group and packed cell in control group in case of hemoglobin below 7. Hematological indexes and clinical status of patients will be evaluated and results will be analyzed by the statistical software.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014071718517N1**

Registration date: **2014-09-12, 1393/06/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-09-12, 1393/06/21

Registrant information

Name

Majid Saraei

Name of organization / entity

Ardabil University of medical sciences and health servi

Country

Iran (Islamic Republic of)

Phone

+98 49 2214 2668

Email address

s.mostafapour@arums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Ardabil University of Medical Sciences

Expected recruitment start date

2014-02-20, 1392/12/01

Expected recruitment end date

2014-07-11, 1393/04/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The efficacy of erythropoietin in the treatment of anemia in ICU patients

Public title

The efficacy of erythropoietin in the treatment of anemia in patients hospitalized in Intensive Care Unit(ICU)

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria; age of 18 and above, Hematocrite more than 38% , Hospitalization in ICU for more than 7 days Exclusion criteria; Uncontrolled hypertension, Uncontrolled seizure, Grade 3 and above burns, Pregnancy or breast feeding, Dialysing patients, The possibility of discharge from the hospital in less than 48 hours, Pulmonary embolism, Deep Vein Thrombosis and Chronic hypercoagulopathy

Age

From **18 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **70**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
After selection of patients, subjects will be divided randomized into two groups(case and control)according to admission document number.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Ardabil University of Medical Sciences and health services

Street address

Ardabil University of medical sciences and health services, Daneshgah street

City

Ardabil

Postal code

5618953141

Approval date

2014-02-09, 1392/11/20

Ethics committee reference number

Arums.Rec.92.32

Health conditions studied

1

Description of health condition studied

Anaemia

ICD-10 code

D64.9

ICD-10 code description

Anaemia, unspecified

Primary outcomes

1

Description

Hemoglobin

Timepoint

Before the intervention, daily until discharge or death

Method of measurement

with Complete blood cell count

Secondary outcomes

1

Description

Blood pressure

Timepoint

Daily

Method of measurement

mmHg with barometer

Intervention groups

1

Description

Intervention group: Erythropoietin, 4000 international Unit per 1 ml, Subcutaneous, 3 times in week, until discharge or death, made in Pooyesh Darou Pharmaceutical co. Tehran

Category

Treatment - Drugs

2

Description

Control group: Packed cell, 1 International Unit, intra venus, if hemoglobin below 7, during admission

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khumeini hospital of Ardabil

Full name of responsible person

Asghar Pirzadeh

Street address

Imam Khumeini Hospital, Shahid Sarhang Ghafour Jeddi street, Ardabil

City

Ardabil

2

Recruitment center

Name of recruitment center

Fatemi hospital of Ardabil

Full name of responsible person

Asghar Pirzadeh

Street address

Fatemi hospital, Shariati square

City

Ardabil

Fax**Email**

i.feizi@arums.ac.ir

Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice Chancellor for research of Ardabil University of Medical Sciences

Full name of responsible person

Iraj Feizi

Street address

Fatemi hospital, Shariati square

City

Ardabil

Grant name

-

Grant code / Reference number

-

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

Yes

Title of funding source

Vice Chancellor for research of Ardabil 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**

Ardabil University of Medical Sciences and health services

Full name of responsible person

Iraj Feizi

Position

Assistant Professor

Other areas of specialty/work**Street address**

Fatemi hospital, Shariati square

City

Ardabil

Postal code

56147

Phone

+98 45332232520

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

Ardabil University of Medical Sciences and health services

Full name of responsible person

Asghar Pirzadeh

Position

Assistant Professor

Other areas of specialty/work**Street address**

Imam Khomeini Hospital, Shahid Sarhang Ghafour Jeddi street, Ardabil

City

Ardabil

Postal code**Phone**

+98 45332251401

Fax**Email**

emamhe@arums.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Ardabil University of Medical Sciences and health services

Full name of responsible person

Majid saraei

Position

Student

Other areas of specialty/work**Street address**

Ardabil-Ardabil University of Medical Sciences and health services

City

Ardabil

Postal code

5618953141

Phone

+98 45 3351 2000

Fax**Email**

i.feizi@arums.ac.ir

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