

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

12 Jun 2026

### Comparing the effectiveness of ferric carboxymaltose and oral iron in treatment of chronic iron deficiency anemia in colon cancer patients

#### Protocol summary

##### Summary

(1) Objectives: Comparing the effectiveness of a new form of intravenous iron (ferric carboxymaltose) with the oral form ferrous sulfate in Iran. (2) Design: Sixty colon cancer patients who admit in single clinical center will be randomly divided into two groups based on balanced block randomization method. (3) Setting and conduct: After dividing, patients in group I will be treated two months duration, but group II patients will receive one drug dose. Lab test will be repeated 8 weeks in both groups. (4) Participants including colon cancer patients with chronic iron deficiency anemia. (5) Intervention: Patients will be treated with oral iron tablets and intravenous iron injection in group I and II, respectively. (6) Primary outcome variables include hemoglobin and ferritin serum level changes in all patients.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015092111560N9**  
Registration date: **2015-12-12, 1394/09/21**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2015-12-12, 1394/09/21

##### Registrant information

##### Name

Tayeb Ramim

##### Name of organization / entity

Sina Trauma and Surgery Research Center, Tehran  
University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 6312 0000

##### Email address

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##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Iran University of Medical Sciences

##### Expected recruitment start date

2015-07-23, 1394/05/01

##### Expected recruitment end date

2015-09-23, 1394/07/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparing the effectiveness of ferric carboxymaltose and oral iron in treatment of chronic iron deficiency anemia in colon cancer patients

##### Public title

Effect of intravenous iron in the treatment of chronic iron deficiency anemia in colon cancer patients

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria : colon cancer; chronic iron deficiency anemia. Exclusion criteria: severe drug reaction; lost to follow up; low level of consciousness due to underlying disease and death.

##### Age

No age limit

##### Gender

Both

**Phase**

2-3

**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****Secondary Ids**

empty

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

Ethics committee of Iran University of Medical Science

**Street address**

Central division of Iran University of Medical Sciences, Hemat gateway

**City**

Tehran

**Postal code****Approval date**

2015-09-23, 1394/07/01

**Ethics committee reference number**

IR.IUMS.REC.139527216

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

Iron deficiency anaemia

**ICD-10 code**

D-50

**ICD-10 code description**

Iron deficiency anaemia

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

Hemoglobin

**Timepoint**

Pre treatment; 8 weeks following end of treatment

**Method of measurement**

gram/ deciliter using of blood sample

**2****Description**

Ferritin

**Timepoint**

Pre treatment; 8 weeks following end of treatment

**Method of measurement**

nanogram/ milliliter using of blood sample

**Secondary outcomes**

empty

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

1500 mg bolus injection of ferric carboxymaltose (Injectafer®)

**Category**

Treatment - Drugs

**2****Description**

65mg/TDS ferrous sulfate (Daru Yab. Co) until two month, 180 tables

**Category**

Treatment - Drugs

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

Rasool Akram Hospital

**Full name of responsible person**

Naffise Ansari Nejad

**Street address**

Niayesh St, Tohid Sq.

**City**

Tehran

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

Vice Chancellor for research, Iran University of Medical Sciences

**Full name of responsible person**

Seeid Ali Javad Mosavi

**Street address**

Central division of Iran University of Medical Sciences, Hemat gateway

**City**

Teharn

**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, Iran 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**

Iran University of Medical Sciences

**Full name of responsible person**

Naffiseh Ansarinejad

**Position**

MD

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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*