

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

24 Jun 2026

### Effects of oral administration of selenium on serum ferritin level and serum iron concentration in patients with Beta Thalassemia major

#### Protocol summary

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##### Summary

In this study 34 chronically transfused Beta Thalassemia patients who are receiving Iron chelators will included. Patients whose iron chelators change during the study; Patients whose pattern of blood infusion changes during the study; Pregnant women; Patients with renal failure and creatinine clearance (GFR) lower than 30 ml/min will excluded from the study. Patients will take 200 micrograms of selenium supplement daily for one month. Blood sample will be taken from patients before intervention and afterwards at the end of the month. Serum level of ferritin, Iron, Glutation peroxidase and selenium will be measured at baseline and after a month.

##### Recruitment status

**Recruitment complete**

##### Funding source

Shahid Ghazi hematology and oncology research center

##### Expected recruitment start date

2017-01-24, 1395/11/05

##### Expected recruitment end date

2017-03-18, 1395/12/28

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017021226998N3**

Registration date: **2017-06-01, 1396/03/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-06-01, 1396/03/11

##### Registrant information

###### Name

Saba Ghaffary

###### Name of organization / entity

Faculty of Pharmacy, Tabriz University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 33266042

###### Email address

##### Scientific title

Effects of oral administration of selenium on serum ferritin level and serum iron concentration in patients with Beta Thalassemia major

##### Public title

Effects of oral administration of selenium on serum ferritin level and serum iron concentration in patients with Beta Thalassemia major

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion criteria: Patients with Beta Thalassemia major  
Exclusion criteria: Patients whose iron chelators change during the study; Patients whose pattern of blood infusion changes during the study; Pregnant women; Patients with renal failure and creatinine clearance (GFR) lower than 30 ml/min

##### Age

From **12 years** old

##### Gender

Both

##### Phase

N/A

### Groups that have been masked

No information

### Sample size

Target sample size: 34

### Randomization (investigator's opinion)

N/A

### Randomization description

### Blinding (investigator's opinion)

Not blinded

### Blinding description

### Placebo

Not used

### Assignment

Single

### Other design features

## Secondary Ids

empty

## Ethics committees

1

### Ethics committee

#### Name of ethics committee

Vice Chancellor for Research (VCR) of Tabriz  
University of Medical Sciences

#### Street address

Daneshgah street, Daneshgah square

#### City

Tabriz

#### Postal code

### Approval date

2017-04-10, 1396/01/21

### Ethics committee reference number

IR.TBZMED.REC.1396.13

## Health conditions studied

1

### Description of health condition studied

BetaThalassemia major

### ICD-10 code

17

### ICD-10 code description

ناهنجاری های مادرزادی، اختلال در شکل گیری و ناهنجاری های  
کروموزومی

## Primary outcomes

1

### Description

Ferritin

### Timepoint

Before and after

### Method of measurement

Labratory blood test

## Secondary outcomes

1

### Description

Liver function test

### Timepoint

1 month

### Method of measurement

Labratory blood test

## Intervention groups

1

### Description

Tablet selenium 200 microgram daily for one month

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Shahid Ghazi hospital

#### Full name of responsible person

Dr Saba Ghaffary

#### Street address

Shahid ghazi hospital, Daneshgah street, Daneshgah  
square

#### City

Tabriz

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Hematology and Oncology research center, Tabriz  
University of Medical Sciences

#### Full name of responsible person

Saba Ghaffary

#### Street address

Shahid ghazi hospital, Daneshgah street, Daneshgah  
square

#### City

Tabriz

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Hematology and Oncology research center, Tabriz  
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*

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**Web page address**

## Person responsible for general inquiries

### Contact

**Name of organization / entity**  
Tabriz University Of Medical Sciences  
**Full name of responsible person**  
Saba Ghaffary  
**Position**  
Assistant Professor of Clinical Pharmacy  
**Other areas of specialty/work**  
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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

### Contact

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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*