

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

25 Feb 2026

### The assessment of effect of Rosuvastatin use on reduce of inflammatory markers in patients with venous thromboembolism

#### Protocol summary

##### Study aim

The assessment of effect of Rosuvastatin use on reduce of inflammatory markers including neutrophil to lymphocyte ratio, platelet to lymphocyte ratio, mean platelet volume and di-dimer in patients with venous thromboembolism

##### Design

Two arm parallel group randomised trial with blinded postoperative care; phase 3. 220 patients are enrolled. Intervention group will receive standard treatment of vein thromboembolism and rosuvastatin (10 mg) for 3 months.

##### Settings and conduct

Both study groups (intervention and control) received anticoagulant therapy. In the intervention group, in addition, they receive rosuvastatin, 10 mg daily for 3 months. Peripheral blood samples are taken to evaluate neutrophil to lymphocyte ratio, platelet to lymphocyte ratio, mean platelet volume and Di-dimer before treatment and 3 months later.

##### Participants/Inclusion and exclusion criteria

Patients diagnosed with venous thromboembolism, including deep vein thrombosis and pulmonary embolism without a history of inflammatory diseases such as rheumatic diseases, a history of blood diseases affecting neutrophils, lymphocytes and platelets, a history of regular use of anticoagulants or partial anticoagulant use in recent year, history of statin use, history of heart failure, history of liver disease, history of coagulopathy, previous history of venous thromboembolism, history of cancer and kidney patients undergoing dialysis

##### Intervention groups

Patients will managed according to the standard treatment for vein thromboembolism. Intervention group will receive standard treatment for vein thromboembolism and rosuvastatin for 3 months. Control group will receive standard treatment for vein thromboembolism alone. All patients will followed-up in the outpatient clinic for 3 months.

##### Main outcome variables

Inflammatory complications of thrombotic disease such as post-thrombotic syndrome

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210416050990N1**

Registration date: **2021-04-24, 1400/02/04**

Registration timing: **prospective**

Last update: **2021-04-24, 1400/02/04**

Update count: **0**

##### Registration date

2021-04-24, 1400/02/04

##### Registrant information

##### Name

Toktam Alirezaei

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 2271 2188

##### Email address

alirezaei.toktam@sbfmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-04-26, 1400/02/06

##### Expected recruitment end date

2021-05-25, 1400/03/04

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

The assessment of effect of Rosuvastatin use on reduce of inflammatory markers in patients with venous thromboembolism

**Public title**

The assessment of effect of Rosuvastatin use in venous thromboembolism

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

patients with venous thromboembolism In the age range of 20-75 years

**Exclusion criteria:**

History of inflammatory disease such as antiphospholipid syndrom History of hematologic disorders that influence on lymphocyte, neutrophil and platetet History of regular use of anticoagulant drugs ( valvular heart disease..) or use of anticoagulant in recent one year Use of statins or fibrate or ezetymab History of heart failure history of coagulopathy History of vein thromboembolism History of cancer Kidney disease under dialysis Liver disease

**Age**

From **20 years** old to **75 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **220**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Recruited patients are randomly allocated to either intervention or control arm. Both arms are in equal size. Randomization sequence is generated by Random Allocation Software version 1.0 May 2004, using a simple random method. It generates a randomization code for each participant (individual randomization).

Randomization is run just one time at the beginning of the study. Then participants' crossover based on the first randomized allocation. Sequentially numbered sealed opaque envelopes are used to conceal the allocation. Each participant receives one envelope containing the randomization code.

**Blinding (investigator's opinion)**

Not 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 Shahid Beheshti University of Medical Sciences

**Street address**

Tajrish square, Shohada-e-tajrish hospital

**City**

Tehran

**Province**

Tehran

**Postal code**

1989934148

**Approval date**

2019-07-30, 1398/05/08

**Ethics committee reference number**

IR.SBMU.MSP.REC.1398.454

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

Venous thromboembolism includes deep vein thrombosis and pulmonary embolism

**ICD-10 code**

Code I82

**ICD-10 code description**

venous embolism and thrombosis

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

Reduce in inflammatory markers

**Timepoint**

At the moment of start of treatment and 3 months later

**Method of measurement**

Peripheral blood sample

**Secondary outcomes****1****Description**

Reduce of inflammation

**Timepoint**

3 months later

**Method of measurement**

Blood sample

## Intervention groups

1

### Description

Intervention group: In addition to the standard treatment of venous thromboembolism, from the first day of treatment, they receive rosuvastatin 10 mg dose from Dr. Abidi company, one tablet daily for 3 months

### Category

Treatment - Drugs

2

### Description

Control group: They receive standard treatment for venous thromboembolism (anticoagulants only)

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Shahid Beheshti University hospitals

#### Full name of responsible person

Hanieh Sattari

#### Street address

Tajrish hospital, Tajrish square

#### City

Tehran

#### Province

Tehran

#### Postal code

1989934148

#### Phone

+98 21 2271 2188

#### Fax

+98 21 2271 9014

#### Email

Alirezaei.toktam@sbm.ac.ir

#### Web page address

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Afshin Zarghi

#### Street address

Shahid Shahryari square, Shahid Chamran highway

#### City

Tehran

#### Province

Tehran

#### Postal code

1983969411

#### Phone

+98 21 2243 1919

#### Fax

+98 21 2243 1607

#### Email

mpd@sbm.ac.ir

#### Grant name

#### Grant code / Reference number

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

No

#### Title of funding source

-

#### Proportion provided by this source

1

#### Public or private sector

Public

#### Domestic or foreign origin

Domestic

#### Category of foreign source of funding

empty

#### Country of origin

#### Type of organization providing the funding

Academic

## Person responsible for general inquiries

### Contact

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Toktam Alirezaei

#### Position

Associate professor

#### Latest degree

Specialist

#### Other areas of specialty/work

Cardiology

#### Street address

Tajrish S.Q. , Tajrish Hospital

#### City

Tehran

#### Province

Tehran

#### Postal code

1989934148

#### Phone

009822712188

#### Email

alirezaei.toktam@sbm.ac.ir

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Toktam Alirezaei

#### Position

Associated professor

#### Latest degree

Specialist  
**Other areas of specialty/work**  
Cardiology  
**Street address**  
ShohadaTajrish hospital  
**City**  
Tehran  
**Province**  
Tehran  
**Postal code**  
1989934148  
**Phone**  
+98 21 2271 2188  
**Fax**  
**Email**  
alirezaei.toktam@sbmu.ac.ir

## Person responsible for updating data

**Contact**  
**Name of organization / entity**  
Shahid Beheshti University of Medical Sciences  
**Full name of responsible person**  
Toktam Alirezaei  
**Position**  
Associated professor  
**Latest degree**  
Specialist  
**Other areas of specialty/work**  
Cardiology  
**Street address**  
ShohadaTajrish hospital  
**City**

Tehran  
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**Postal code**  
1989934148  
**Phone**  
+98 21 2271 2188  
**Fax**  
**Email**  
alirezaei.toktam@sbmu.ac.ir

## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

### Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

### Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

### Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

### Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

### Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

### Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available