Clinical Trial Protocol
Iranian Registry of Clinical Trials

26 Jun 2026

Comparative study of the frequency of complications due to high-risk pulmonary thromboembolism after rapid performance of the team responsible for pulmonary embolism (TIMAR) compared to conventional performance

Protocol summary

Study aim

Comparative study of the frequency of complications due to high-risk pulmonary thromboembolism after rapid performance of the team responsible for pulmonary embolism (TIMAR) compared to conventional performance

Design

Clinical trial with control group with parallel groups, phase 2-3 on 74 patients

Settings and conduct

This study is performed in Shahid Chamran Hospital in Isfahan. Patients will be treated in two ways and the mortality rate, complications and cardiac function will be compared between groups.

Participants/Inclusion and exclusion criteria

Inclusion criteria: age 18 to 75 years old; diagnosis of pulmonary thromboembolism based on the GENEVA criteria; patients with high-risk pulmonary embolism; satisfaction with entering this study. Exclusion criteria: dissatisfaction with continue participation in the study.

Intervention groups

Intervention group: Patients in this group, whose thromboembolism has been previously proven by CT scan and Geneva criteria, are visited and evaluated by a cardiology resident and treated if patients are at high risk for thromboembolism, they will be treated according to the protocol provided by the Timar team members and the treatment plan will be implemented within a maximum of 60 minutes. Mortality and treatment complications as well as cardiac function in patients after interventions will be measured by echocardiography and checklist. Control group: patients in this group, as usual and according to hospital protocols, will be examined by a cardiology resident and their thromboembolism will be diagnosed by CT scan and Geneva criteria and will be treated by the cardiology service. Mortality and treatment complications as well as cardiac function in patients after interventions will be measured by echocardiography and checklist.

Main outcome variables

The mortality rate; complications and cardiac function

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210613051561N1**
Registration date: **2021-06-21, 1400/03/31**
Registration timing: **prospective**

Last update: **2021-06-21, 1400/03/31**
Update count: **0**

Registration date

2021-06-21, 1400/03/31

Registrant information

Name

farid esmaeili

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3778 0897

Email address

farid.esmaeili@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-08-05, 1400/05/14

Expected recruitment end date
2021-09-06, 1400/06/15
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparative study of the frequency of complications due to high-risk pulmonary thromboembolism after rapid performance of the team responsible for pulmonary embolism (TIMAR) compared to conventional performance

Public title
Complications of pulmonary thromboembolism after rapid performance of the team responsible for pulmonary embolism
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Age 18 to 75 years old Diagnosis of pulmonary thromboembolism based on the GENEVA criteria Patients with high-risk pulmonary embolism Satisfaction with entering this study
Exclusion criteria:
Dissatisfaction to continue participation in the study
Age
From **18 years** old to **75 years** old
Gender
Both

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **74**
Randomization (investigator's opinion)
N/A
Randomization description
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 Esfahan university of Medical sciences
Street address
No. 18, Hezar Jarib Ave., Daneshgah Blvd., Isfahan
City
Isfahan
Province
Isfehan
Postal code
8137866515
Approval date
2019-10-14, 1398/07/22
Ethics committee reference number
IR.MUI.MED.REC.1398.367

Health conditions studied

1

Description of health condition studied
Pulmonary embolism
ICD-10 code
I26
ICD-10 code description
Pulmonary embolism

Primary outcomes

1

Description
Mortality rate
Timepoint
After interventions
Method of measurement
Check list

2

Description
Time of hospitalization
Timepoint
After interventions
Method of measurement
Check list

3

Description
Heart function
Timepoint
After interventions
Method of measurement
Eco cardiography

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: patients in this group, whose thromboembolism has been previously proven by CT scan and Geneva criteria, are visited and evaluated by a cardiology resident and treated if patients are at high risk for thromboembolism, they will be treated according to the protocol provided by the Timar team members and the treatment plan will be implemented within a maximum of 60 minutes. Mortality and treatment complications as well as cardiac function in patients after interventions will be measured by echocardiography and checklist.

Category
Treatment - Other

2

Description
Control group: patients in this group, as usual and according to hospital protocols, will be examined by a cardiology resident and their thromboembolism will be diagnosed by CT scan and Geneva criteria and will be treated by the cardiology service. Mortality and treatment complications as well as cardiac function in patients after interventions will be measured by echocardiography and checklist.

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Shahid Chamran hospital

Full name of responsible person
Mohammad Hadi Mansouri

Street address
No. 22, Roshd Ave., Daneshgah Blvd., Isfahan

City
Isfahan

Province
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8174673461

Phone
+98 31 3668 0042

Email
mansouri.hadi@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences

Full name of responsible person
Shaghayegh Haghjoo

Street address
No. 18, Hezar Jarib Ave., Daneshgah Blvd., Isfahan

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haghjoo.sh@med.mui.ac.ir

Grant name

Grant code / Reference number

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

Title of funding source
Esfahan University of Medical Sciences

Proportion provided by this source
100

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
Esfahan University of Medical Sciences

Full name of responsible person
Mohammad Hadi Mansouri

Position
Assistant professor

Latest degree
Specialist

Other areas of specialty/work
Cardiology

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Person responsible for scientific inquiries

Contact

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Esfahan University of Medical Sciences

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available

Study Protocol
Yes - There is a plan to make this available

Statistical Analysis Plan
Yes - There is a plan to make this available

Informed Consent Form
Yes - There is a plan to make this available

Clinical Study Report
Yes - There is a plan to make this available

Analytic Code
Yes - There is a plan to make this available

Data Dictionary
Yes - There is a plan to make this available

Title and more details about the data/document
All data can be shared after people have requested.

When the data will become available and for how long
Six months after publishing the results.

To whom data/document is available
Academic researchers

Under which criteria data/document could be used
Scientific uses

From where data/document is obtainable
Website of the Research Committee of Isfahan University of Medical Sciences

What processes are involved for a request to access data/document
Clear request on the site to access the data by the individual and then review the request by the research assistant within 2 weeks and then allow access to the data.

Comments