Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

The effect of reteplase on the dysfunctional permanent central venous catheter of hemodialysis

Protocol summary

Study aim
The effect of reteplase on the dysfunctional permanent central venous catheter of hemodialysis
Design
The clinical trial with a control group, parallel-group, double-blinded, Randomized, In 60 patients, A randomization method is used with the STATA software.
Settings and conduct
In this study, in patients with impaired hemodialysis central venous catheter function, 0.04 units of reteplase were injected and after 30 minutes, catheter function was evaluated. The study is performed in Ali Ibn Abitaleb Hospital in Zahedan. The patient and the analyst are unaware of the type of injectable drug.
Participants/Inclusion and exclusion criteria
Lack of blood flow in the catheter lumen ability to aspiration of heparin from the lumen flow rate less than 150 ml/min
Intervention groups
Intervention group: Injection of 2 ml of Reteplase containing 0.4 units of drug Control group: Injection of 2 ml of heparin
Main outcome variables
Catheter function correction

General information

Reason for update
Acronym
IRCT registration information
IRCT registration number: **IRCT20201101049227N1**
Registration date: **2020-11-28, 1399/09/08**
Registration timing: **prospective**

Last update: **2020-11-28, 1399/09/08**
Update count: **0**
Registration date
2020-11-28, 1399/09/08

Registrant information
Name
Seyed Morteza Hashemizadeh
Name of organization / entity
Country
Iran (Islamic Republic of)
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+98 54 3329 5570
Email address
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Recruitment status
Recruitment complete
Funding source

Expected recruitment start date
2020-12-05, 1399/09/15
Expected recruitment end date
2021-06-05, 1400/03/15
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
The effect of reteplase on the dysfunctional permanent central venous catheter of hemodialysis

Public title
The effect of reteplase on the dysfunctional permanent central venous catheter of hemodialysis
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Lack of blood flow in catheter lumen ability to aspiration of heparin from lumen flow rate less than 150 ml/min
Exclusion criteria:
Age
No age limit

Gender
Both

Phase
N/A
Groups that have been masked

- Participant
- Data analyser

Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
A simple randomization method is used individually with the STATA software. The software randomly determines whether patients receive heparin or reteplase.
Blinding (investigator's opinion)
Double blinded
Blinding description
Patients and analysts do not know which group they belong to.
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of zahedan university of medical sciences
Street address
ZAUMS Main campus, Hesabi square, Zahedan, Sistan and Baluchestan, Iran
City
Zahedan
Province
Sistan-va-Balouchestan
Postal code
9816743463
Approval date
2020-09-20, 1399/06/30
Ethics committee reference number
IR.ZAUMS.REC.1399.315

Health conditions studied

1

Description of health condition studied
Central venous catheter
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Catheter function correction
Timepoint
30 minutes
Method of measurement
Lumen flow more than 250 ml per minute

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Injection of 2 ml of Reteplase containing 0.4 units of drug
Category
Treatment - Drugs

2

Description
Control group: Injection of 2 ml of heparin
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Ali ebne Abitaleb Hospital
Full name of responsible person
Seyed Morteza Hashemizade
Street address
Salamat Blvd, Persian Gulf Expressway
City
Zahedan
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+98 54 3329 5715
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person

Vice-president for Research and Technology

Street address

ZAUMS Main campus, Hesabi square, Zahedan, Sistan and Baluchestan, Iran

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9816743463

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Email

zaums.research@gmail.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Seyed Morteza Hashemizadeh

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

Street address

Alĭ-ebn- abitaleb Hospital, Khalij Fars Blvd, Zahedan

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Person responsible for scientific inquiries

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Position

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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 include the outcomes of the two groups can be published after being unidentified.

When the data will become available and for how long

Access to information will be granted after article publishment.

To whom data/document is available

Data will be access by researchers from medical universities.

Under which criteria data/document could be used

Data will be access by researchers from medical universities.

From where data/document is obtainable

Dr. Seyed Moeteza Hashemizade, MD. General surgery resident, Email: dr_hashemizadeh@yahoo.com Tell: +989128206466, Address:Ali ebne Abitaleb Hospital, Salamat Blvd, Persian Gulf Expressway, Zahedan

What processes are involved for a request to access data/document

The people that wanted the data should email requested the data.

Comments