

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Assessment of the effect of three heparinization methods of hemodialysis set on coagulation condition and dialysis efficacy in 25 patients under hemodialysis in Fateme Zahra Hospital Mehriz(1392)

Protocol summary

Summary

In this clinical trial study 25 patients of ESRD under hemodialysis in Fateme Zahra Hospital Mehriz Yazd in 1392, by purpose to recognize the best methods of Dialysis set heparinization, is assessed and heparinated by one of three methods of heparinization(1 - 2500u heparin stat and two times 200cc N/S infusion 2 -2000u heparin stat and 1000u/h to 1hr before end of dialysis 3 -2500u heparin stat and 2500u 2hr later) .The PTT and UREA is checkek before and after of dialysis and assessed the different in two stages.The clot measurement is evaluated by one of four degree (no clot:0 - low clot:1 - moderate clot:2 - severe clot:3)in end of dialysis.This patients must be tolerated 4 hr Dialysis and have not coagulation problems or blood transfusion from one week ago.For assessment of dialysis efficacy and coagulation condition PTT and UREA will check and compare before and after of dialysis .Coagulation scale is (no clot:no evidence of clot in dialysor,low clot:clot in 1/4 diameter of dialysor,moderate clot:clot in 1/4 to 1/2 diameter of dialysor,severe clot:clot in above of 1/2 diameter of dialysor). Assessment of clot will be reliable because the clot will observe by one person.Sampling,speed of dialysis,method of access,kind of dialysor,dialysis solution,temperature,hydration,system of dialysis machine,dialysis set ,... for whole samples is equal.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013021712498N1**
Registration date: **2013-08-12, 1392/05/21**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-08-12, 1392/05/21

Registrant information

Name

Habib Ollah Babaei Baghdad Abadi

Name of organization / entity

Fateme Zahra Hospital

Country

Iran (Islamic Republic of)

Phone

+98 35 2522 3001

Email address

habib.babaei49@gmail.com

Recruitment status

Recruitment complete

Funding source

Shahid Sadughi Yazd University Of Medical Science

Expected recruitment start date

2013-04-30, 1392/02/10

Expected recruitment end date

2013-07-01, 1392/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of the effect of three heparinization methods of hemodialysis set on coagulation condition and dialysis efficacy in 25 patients under hemodialysis in Fateme Zahra Hospital Mehriz(1392)

Public title

Effect of three heparinization methods of hemodialysis

set on coagulation condition and dialysis efficacy in patients under hemodialysis

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Age above 14 years;End Stage Of Renal Disease disorder certificated by nephrologist;No coagulative disorder(Hemophilia; DIC);No oral anticoagulation drugs(Aspirin;Warfarin);No clinical symptoms of Infection ,No Blood transfusion from one week ago ,No susceptible to bleeding by assessment PTT (normal range 25-35 second before Dialysis) , Exclusion criteria: Acute Renal Failure;Emergency dialysis; Dialysis by shunt access;Hepatitis type B & C ; Guess patients;Intolerance of dialysis(severe hypotension;hemorrhagia) blood transfusion;Cancer

Age

From **14 years** old to **85 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **25**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Yazd Shahid Sadughi University Of Medical Sciences

Street address

Central Building, Bahonar SQ

City

Yazd

Postal code

89819

Approval date

2013-04-29, 1392/02/09

Ethics committee reference number

20261

Health conditions studied

1

Description of health condition studied

Chronic Renal Failure

ICD-10 code

N 17 - N 1

ICD-10 code description

Acute Renal Failure_ Unspecified Kidney Failure

Primary outcomes

1

Description

clot

Timepoint

after dialysis time

Method of measurement

check list,clot observation

2

Description

Dialysis Efficacy

Timepoint

Before and after of Dialysis

Method of measurement

Urea test an check list

3

Description

PTT measurement

Timepoint

before and after of dialysis

Method of measurement

PTT test and check list

Secondary outcomes

1

Description

clot

Timepoint

in time& end of dialysis

Method of measurement

check list ,PTT measurement by autoanalyser BT 3000,,
Urea measurement by autoanalyser BT 3000

Intervention groups

1

Description

Heparin injection by method:2500u stat before Dialysis in Arterial line and two times infusion 200cc N/S in Dialysis set .Each person is compared by own in the else method.

Category

Prevention

2

Description

Heparin injection by method:2000u stat before Dialysis in Arterial line & 1000u/h heparin drip by pump to 1 hour before end of dialysis. Each person is compared by own in the else method.

Category

Prevention

3

Description

Heparin injection by method: 2500u stat in Arterial line & 2500 u 2 hours later in Arterial line.Each person is compared by own in the else method.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Mehriz Fateme Zahra Hospital

Full name of responsible person

Habib Ollah Babaei Baghdad Abadi

Street address

Fateme Zahra Hospital, Mehriz, Yazd

City

Mehriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadughi University Of Medical Sciences,
Mehriz, Fateme Zahra Hospital

Full name of responsible person

Habib Ollah Babaei Baghdad Abadi

Street address

No 9 Bustan, Waliasr Shahrak,mehriz

City

Mehriz

Grant name

Grant code / Reference number

20261

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

Yes

Title of funding source

Shahid Sadughi University Of Medical Sciences, Mehriz,
Fateme Zahra Hospital

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

Fateme Zahra Hospital, Mehriz)

Full name of responsible person

Habib Ollah Babaei Baghdad Abadi

Position

Head Nurse

Other areas of specialty/work

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Person responsible for scientific inquiries

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Person responsible for updating data

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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