

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

comparison between effect of systemic antibiotic with and without ethanol lock solution in treatment of hemodialysis catheter related infection

Protocol summary

Summary

The aim of this study is comparison between the effect of systemic antibiotic with and without ethanol lock solution in treatment of hemodialysis catheter related infection in patients with renal failure. Inclusion criteria: Adult patient with renal failure who develop fever and chills During dialysis Exclusion criteria: other sources of infection outside the dialysis catheter ; death because of any reason other than catheter infection ; catheter removal due to maturation of arteriovenous fistulas or grafts . participants are 64 adult patients with renal failure needed hemodialysis with catheter who are divided into 2 groups; in both of them empirical antibiotic with vancomycin and 3th generation cephalosporin or aminoglycoside begins and will modify after obtaining the blood culture results . in control group for performing hemodialysis 1cc heparin(5000u)uses in lumen of catheter according to standard rules ; in intervention arm 1cc heparin(5000u) locked catheter and 2cc ethanol 60%will use for hemodialysis ; after 3 weeks of treatment catheter infection will compare in two groups .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201106062858N4**

Registration date: **2011-08-15, 1390/05/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-08-15, 1390/05/24

Registrant information

Name

Hamid Taieby Khosroshahy

Name of organization / entity

Tabriz University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Tabriz University Of Medical Sciences

Expected recruitment start date

2009-06-22, 1388/04/01

Expected recruitment end date

2011-06-21, 1390/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison between effect of systemic antibiotic with and without ethanol lock solution in treatment of hemodialysis catheter related infection

Public title

Effect of ethanol lock in treatment of hemodialysis catheter infection

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Adult patient with renal failure who develop fever and chills During dialysis Exclusion criteria: other sources of infection outside the dialysis catheter ;

death because of any reason other than catheter infection ; catheter removal due to maturation of arteriovenous fistulas or grafts

Age

From **15 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **64**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Medical faculty,Tabriz University of medical sciences

Street address

Emam Reza hospital,Daneshgah ave.

City

Tabriz

Postal code

5166614756

Approval date

2010-07-08, 1389/04/17

Ethics committee reference number

5/4/2712

2

Ethics committee

Name of ethics committee

Medical faculty,Tabriz University of medical sciences

Street address

Emam Reza hospital,Daneshgah ave.

City

Tabriz

Postal code

5166614756

Approval date

2010-07-08, 1389/04/17

Ethics committee reference number

5/4/2712

Health conditions studied

1

Description of health condition studied

infection of hemodialysis catheter

ICD-10 code

T82.4

ICD-10 code description

Mechanical complication of vascular dialysis catheter

Primary outcomes

1

Description

infection of hemodialysis catheter

Timepoint

before the intervention In case of fever and chills during the dialysis blood cultures and cultures of the catheter is taken

Method of measurement

blood culture;Culture of fluid aspirated from the catheter lumen

Secondary outcomes

1

Description

fever and chills

Timepoint

Before the intervention and during each dialysis

Method of measurement

Using a thermometer and a temperature above 38

Intervention groups

1

Description

One cc of heparin 5000 units and 2cc of ethanol 60% three weeks of dialysis;Lock the catheter after each dialysis Plus systemic antibiotics for three weeks in the intervention group

Category

Treatment - Drugs

2

Description

One cc of heparin 5000 units three weeks of dialysis;Lock the catheter after each dialysis Plus systemic antibiotics for three weeks in the control group

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza hospital

Full name of responsible person

Dr.Hamid tayeby khosroshahy

Street address

Emam Reza hospital,daneshgah ave.Tabriz,Province
east Azerbaijan -Iran, Islamic Republic Of

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz university of medical sciences

Full name of responsible person

Dr.hamid tayeby khosroshahy

Street address

Emam Reza hospital,Daneshgah ave.

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

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

Person responsible for general inquiries

Contact

Name of organization / entity

Tabriz university of medical sciences

Full name of responsible person

Dr.hamid tayeby khosroshahy

Position

Internal medicine specialist/nephrology sub
specialist/Chief of nephrology ward of Emam reza
hospita

Other areas of specialty/work

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Person responsible for updating data

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Full name of responsible person

Dr.Hamid Tayeby Khosroshahy

Position

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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