

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effect of Ceftazidime and Cloxacillin as an antibiotic lock solution for prevention of hemodialysis tunneled-catheter related blood stream infection in patients with chronic kidney disease

Protocol summary

Summary

The aim of this clinical trial study was to evaluate the effect of Ceftazidime and Cloxacillin as an antibiotic lock solution for prevention of hemodialysis tunneled-catheter related blood stream infection. From patients with chronic kidney disease requiring dialysis with tunneled hemodialysis catheter referring to hemodialysis center of Tohid hospital, Sanandaj, Iran total of 40 patients were selected and randomly divided into intervention and control groups. Inclusion criteria included: patients with chronic kidney disease requiring dialysis with tunneled hemodialysis catheter. Exclusion criteria included: changing vascular access to AVF, kidney transplant during the study, transferring patients to other centers, patients' unwillingness to participate in the study, using Taurolock as lock solution, patients who were candidate for antibiotic prescription for reasons other than CRBSI. In the intervention group based on the volume recorded on the catheter 10 mg / ml ceftazidime plus 100 mg / ml cloxacillin and 5000 units of heparin injected into the lumen of the catheter after each hemodialysis session and catheter locked. In the control group only 5000 units of heparin injected into the lumen of the catheter after each hemodialysis session and catheter locked. All patients were examined during the dialysis for catheter infection, adverse drug reactions, skin reactions and other side effects.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017060212789N15**
Registration date: **2017-07-18, 1396/04/27**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-07-18, 1396/04/27

Registrant information

Name

Masoud Rasolabady

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 87 3366 4654

Email address

rasolabady@muk.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research of Kurdistan University of Medical Sciences

Expected recruitment start date

2016-09-22, 1395/07/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Ceftazidime and Cloxacillin as an antibiotic lock solution for prevention of hemodialysis tunneled-catheter related blood stream infection in patients with chronic kidney disease

Public title

Effect of Ceftazidime and Cloxacillin for prevention of

hemodialysis tunneled -catheter related blood stream infection

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients with chronic kidney disease requiring dialysis with tunneled hemodialysis catheter. Exclusion criteria: changing vascular access to AVF; kidney transplant during the study; transferring patients to other centers; patients' unwillingness to participate in the study; using Taurolock as lock solution; patients who were candidate for antibiotic prescription for reasons other than CRBSI.

Age

From **18 years** old to **70 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

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 Kurdistan university of Medical Sciences

Street address

Kurdistan university of Medical Sciences, Pasdaran St., Sanandaj, Iran

City

Sanandaj

Postal code

Approval date

2016-05-14, 1395/02/25

Ethics committee reference number

IR.MUK.REC.1395.60

Health conditions studied

1

Description of health condition studied

Bacterial infection, unspecified

ICD-10 code

A49.9

ICD-10 code description

Bacteraemia NOS

Primary outcomes

1

Description

Catheter-related bloodstream infection (CRBSI)

Timepoint

After each session hemodialysis for six months

Method of measurement

Clinical examination of infection and blood culture

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: based on the volume recorded on the catheter 10 mg / ml ceftazidime plus 100 mg / ml cloxacillin and 5000 units of heparin injected into the lumen of the catheter after each hemodialysis session and catheter locked

Category

Treatment - Drugs

2

Description

Control group: 5000 units of heparin injected into the lumen of the catheter after each hemodialysis session and catheter locked.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Tohid Hospital

Full name of responsible person

Dr. Jamal Modares Gorgi

Street address

Tohid Hospital, Geryashan St., Basij Sq., Sanandaj, Iran

City

Sanandaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research of Kurdistan University of Medical Sciences

Full name of responsible person

Dr. Ebrahim Ghaderi

Street address

Kurdistan university of Medical Sciences, Pasdaran St., Sanandaj , Iran

City

Sanandaj

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice Chancellor for Research of Kurdistan 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**

Kurdistan University of Medical Sciences

Full name of responsible person

Dr. jamal Modares Gorji

Position

Internal Medicine Resident

Other areas of specialty/work**Street address**

Tohid Hospital, Geryashan St., Basij Sq., Sanandaj, Iran

City

Sanandaj

Postal code**Phone**

+98 87 3328 6112

Fax**Email**

drmodresgrgj@gmail.com

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Kurdistan University of Medical Sciences

Full name of responsible person

Dr. Mohammad Saad Forghani

Position

Nephrologist

Other areas of specialty/work**Street address**

Tohid Hospital, Geryashan St., Basij Sq., Sanandaj, Iran

City

Sanandaj

Postal code**Phone**

+98 87 3328 6117

Fax**Email**

forghani1979@gmail.com

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Kurdistan University of Medical Sciences

Full name of responsible person

Dr. Jamal Modares Gorji

Position

Internal Medicine Resident

Other areas of specialty/work**Street address**

Tohid Hospital, Geryashan St., Basij Sq., Sanandaj, Iran

City

Sanandaj

Postal code**Phone**

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Fax**Email****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