

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 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

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Masoud Rasolabady

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

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##### 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

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## Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Position**

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## Person responsible for updating data

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

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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*