

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

Lasix effect in two ways at once and infusion therapy in patients with a kidney transplant in Imam Reza Hospital Tabriz

Protocol summary

Summary

Clinical trial study will be carried out. 80 Patients, who have had kidney transplant indications, received dialysis 24 hours preoperatively. Biochemical tests were done and recorded in information form, together with individual characteristics. Patients were divided into two groups, each with 40 patients. Then, each patient received a code and assigned to a group, based on a protocol that determines which code will receive which treatment regimen. One group was named the "Lasix bolus Group" and the other was named the "infusion Lasix". The bolus dose was initiated within immediately one minute before arterial de-clamping. Infusion was initiated within 30 minutes before arterial de-clamping. Following arterial and venous anastomosis, ureter clamp taking time was checked and recorded in patient's information form. Diuresis initiation time will be recorded in the samples studied. Finally, urinary output volume was measured until an hour after anastomosis and after each 3 hours for 24 hours, and then in second and third days in ward. Diuresis times in both groups will be determined and compared with each other. The person in charge of measuring will be unaware of Lasix administration method. In addition, the levels of sodium, potassium, BUN, and creatinine will be recorded preoperatively and postoperatively for 4 days.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016042023559N3**
Registration date: **2016-08-26, 1395/06/05**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-08-26, 1395/06/05

Registrant information

Name

Somaieh Matin

Name of organization / entity

Ardabil University of Medicine Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2017-03-20, 1395/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Lasix effect in two ways at once and infusion therapy in patients with a kidney transplant in Imam Reza Hospital Tabriz

Public title

Lasix effect in kidney transplant patients

Purpose

Treatment

Inclusion/Exclusion criteria

Included criteria: diagnosis of ESRD, indicated for kidney transplants; admission in Tabriz Imam Reza Hospital;

male and female gender; 15-65 years old. Excluded criteria: patients with severe psychiatric problems; metastatic cancer patients; patients over 65 years old; patients with hemodynamic changes following their transplantation (reducing blood pressure less than 50 / 80 for more than half an hour); the constant drug abuse; chronic liver disease; reversible urinary tract infections; anomalies of the urinary system; aeortoiliac disease.

Age

From **15 years** old to **65 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, University Avenue,

City

Tabriz

Postal code

Approval date

2016-03-07, 1394/12/17

Ethics committee reference number

IR.REC.TBZMED.1394.1141

Health conditions studied

1

Description of health condition studied

Kidney transplant

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The volume of urine output

Timepoint

After vascular anastomosis to an hour, then every three hours for 24 hours then the second and third day after kidney transplant

Method of measurement

milliliter

Secondary outcomes

1

Description

Na

Timepoint

Before surgery and then daily until 4 days after kidney transplant

Method of measurement

meq/ml

2

Description

K

Timepoint

Before surgery and then daily until 4 days after kidney transplant

Method of measurement

meq/ml

3

Description

BUN

Timepoint

Before surgery and then daily until 4 days after kidney transplant

Method of measurement

mg/dl

4

Description

Creatinine

Timepoint

Before surgery and then daily until 4 days after kidney transplant

Method of measurement

mg/dl

Intervention groups

1

Description

Bolus injection (one minute immediately before declamping arteries) Lasix during kidney transplant

surgery.
Category
Treatment - Drugs

2

Description

Infusion injection(over 30 minutes immediately before declamping arterial) Lasix during kidney transplant surgery.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Kidney transplant ward, The Imam Reza Hospital
Tabriz
Full name of responsible person
Street address
The Imam Reza Hospital Tabriz
City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Mohammad Reza Rashidi M.D. Deputy of Research and Technology
Street address
Vice Chancellor for Research and Technology,
University of Medical Sciences, Tabriz
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
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Full name of responsible person
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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

Contact

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00
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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