

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jun 2026

Clinical trials of effect of fluid therapy with half saline compared to normal saline on Creatinine level in post-renal transplant patients

Protocol summary

Summary

Objectives: The current study will aim to compare the effect of fluid therapy with normal saline and half saline on Creatinine level in patients after renal transplant.

Design: This is a triple-blind, randomized clinical trial.

Setting and conduct: One hundred patients using random block method were randomly assigned into two groups. In one group half saline serum plus 250 milliequivalents Sodium Bicarbonate and in the second group, normal saline serum plus 50 milliequivalents Sodium Bicarbonate will be infused. This clinical trial is a phase 3 study. This is a triple-blind randomized clinical trial. In this study, the patients, those who measure the outcomes of study (researchers) and Data Monitoring Committee (analyzers) will be unaware about intervention. **Inclusion criteria:** Age between 18 to 65 years; **Exclusion criteria:** The patient's potassium is higher than 5.5; Patients with chronic heart failure Ejection Fraction less than 30%; Patients with liver failure; The patient needs to have colloidal fluid and blood intake; Severe acidosis; **Main outcome measures (variables):** The level of creatinine, urine volume, blood pressure, heart rate, blood BUN, etc. will be recorded on the first, second, third and seventh days after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017080535510N1**
Registration date: **2017-09-13, 1396/06/22**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-09-13, 1396/06/22

Registrant information

Name

Pejman Pourfakhr

Name of organization / entity

Tehran University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2017-07-23, 1396/05/01

Expected recruitment end date

2017-10-23, 1396/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical trials of effect of fluid therapy with half saline compared to normal saline on Creatinine level in post-renal transplant patients

Public title

Effect of fluid therapy on Creatinine level in post-renal transplant patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age between 18 to 65 years; Exclusion criteria: The patient's potassium is higher than 5.5; Patients with chronic heart failure Ejection Fraction less

than 30%; Patients with liver failure; The patient needs to have colloidal fluid and blood intake; Severe acidosis;

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple 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 Tehran University of Medical Sciences

Street address

Tehran University of Medical Sciences, Keshvarz Blvd

City

Tehran

Postal code

Approval date

2016-12-26, 1395/10/06

Ethics committee reference number

IR.TUMS.VCR.REC.1395.1565

Health conditions studied

1

Description of health condition studied

Chronic kidney disease

ICD-10 code

N18

ICD-10 code description

Chronic kidney disease

Primary outcomes

1

Description

Creatinine

Timepoint

In the first, second, third and seventh days after the intervention

Method of measurement

Blood test

2

Description

Urine volume

Timepoint

In the first, second, third and seventh days after the intervention

Method of measurement

Urine test

Secondary outcomes

1

Description

Systolic blood pressure

Timepoint

In the first, second, third and seventh days after the intervention

Method of measurement

Invasive blood pressure monitor

2

Description

Systolic blood pressure

Timepoint

In the first, second, third and seventh days after the intervention

Method of measurement

Invasive blood pressure monitor

3

Description

Heart rate per minute

Timepoint

In the first, second, third and seventh days after the intervention

Method of measurement

Invasive blood pressure monitor

Intervention groups

1

Description

Control group: Serum normal saline plus 50 milli-Equivalents Sodium Bicarbonate will be infused.

Category

Prevention

2

Description

Intervention group: Serum half Saline plus 250 mili-Equivalents Sodium Bicarbonate will be infused.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina Hospital of Tehran University of Medical Sciences

Full name of responsible person

Mohadeseh Shafiee

Street address

Hassan Abad square, Emam Khomeini Street

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tehran University of Medical Sciences

Full name of responsible person

Dr. Masoud Yunesian

Street address

Tehran University of Medical Sciences, Keshavarz Blvd

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Tehran

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, Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Mohadeseh Shafiee

Position

Student/Anesthesiology resident

Other areas of specialty/work

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Other areas of specialty/work

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Person responsible for updating data

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Web page address

empty

Sharing plan

Informed Consent Form

empty

Deidentified Individual Participant Data Set (IPD)

Clinical Study Report

empty

empty

Study Protocol

Analytic Code

empty

empty

Data Dictionary

Statistical Analysis Plan

empty