

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 2026

The Effect of Prophylactic Dialysis on the Mortality and Morbidity of Patients with Moderate Chronic Kidney Diseases undergoing Coronary Artery Bypass.

Protocol summary

Summary

In our study we evaluate the effect of prophylactic hemodialysis in patients with chronic kidney disease stage 3-4 who undergo coronary artery bypass graft. In our randomized non-blinded trial, 120 patients with established chronic kidney disease stage 3-4 will be enrolled into the study after signing the written consent. They will be randomly allocated as case (dialysis group) and control groups (non-dialysis group). The case group will be dialysed 3 sessions before surgery. The patients will be followed for mortality and morbidity during hospitalization and for one month after discharge from the hospital. The data will be analysed and compared within two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201011065113N1**

Registration date: **2012-02-02, 1390/11/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-02-02, 1390/11/13

Registrant information

Name

Seyyed Mohammad Reza Khatami

Name of organization / entity

Nephrology Research Center, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6119 2659

Email address

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Recruitment status

Recruitment complete

Funding source

by a grant of deputy research of Tehran University of Medical Sciences

Expected recruitment start date

2011-07-01, 1390/04/10

Expected recruitment end date

2012-10-01, 1391/07/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Prophylactic Dialysis on the Mortality and Morbidity of Patients with Moderate Chronic Kidney Diseases undergoing Coronary Artery Bypass.

Public title

Prophylactic Dialysis in CABG Patients with Moderate Renal Failure

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: age more than 18 years; patients with GFR between 15 and 59 ml/min/1.73 m² body surface; patients undergoing CABG exclusion criteria: CABG for second time or more; CABG in Association with other heart surgery; patients with acute kidney injury

Age

From **18 years** old

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **120**

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
the ethic committee of deputy research of Tehran University of Medical Sciences

Street address
Central Campus of Tehran University of Medical Sciences, Keshavarz Blvd.

City
Tehran

Postal code

Approval date
2010-09-23, 1389/07/01

Ethics committee reference number
04V

Health conditions studied

1

Description of health condition studied
Chronic Kidney Disease stage 3-4

ICD-10 code
N18.3 and

ICD-10 code description
فیلتراسیون گلوмерولی کمتر از 60 میلی ایتر در دقیقه و بالاتر از 15 میلی لیتر در دقیقه

Primary outcomes

1

Description
Hospital stay

Timepoint

Daily

Method of measurement
The time of discharge

2

Description
Acute kidney injury

Timepoint
Daily

Method of measurement
Serum Creatinine

3

Description
Cerebro vascular accident

Timepoint
Daily

Method of measurement
MRI

4

Description
Transient ischemic attack

Timepoint
Daily

Method of measurement
neurologic exam

5

Description
Atrial arrhythmia after surgery

Timepoint
Daily

Method of measurement
Ekg monitoring

6

Description
Sternum infection

Timepoint
Daily

Method of measurement
Clinical evaluation and culture

7

Description
Re operation due to bleeding

Timepoint
Daily

Method of measurement
Observation

8

Description
Lung complications

Timepoint
Daily

Method of measurement

Observation and paraclinic evaluation like chest x ray

9

Description

Duration of being on ventilator

Timepoint

Daily

Method of measurement

Patients' medical file

10

Description

Staying time in I C U

Timepoint

Daily

Method of measurement

Medical file

11

Description

mortality and morbidity

Timepoint

Time of death

Method of measurement

Death

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: An central catheter will be inserted 6 days before surgery in case group and 3 sessions hemodialysis will be delivered in everyother day . The first session for 2 hours, the second session for 3 hours and the last session for 4 hours

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Tehran Heart Center

Full name of responsible person

Seyyed Mohammad Reza Khatami

Street address

Imam khomeini hospital

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Nephrology Research Center, Tehran University of Medical Sciences

Full name of responsible person

Seyyed Mohammad Reza Khatami

Street address

Imam khomeini hospital, keshavarz blvd.

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Nephrology Research Center, 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

Nephrology Research Center

Full name of responsible person

Seyyed Mohammad Reza Khatami

Position

Associate Professor

Other areas of specialty/work

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Imam Khomeini Hospital, Keshavarz Blvd

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Email

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Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Imam Khomeini Hospital

Full name of responsible person

Rogheyeh Borji

Position

Assistant

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

Keshavarz Blvd. Imam Khomeini Hospital

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soheila1111@yahoo.com

Web page address**Person responsible for updating data****Contact****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