

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

29 May 2026

### Efficacy of short-term high-dose lovastatin in prevention of contrast-induced acute kidney injury in patients receiving intravenous contrast drugs

#### Protocol summary

##### Summary

This study is designed to evaluate the effect of lovastatin on the prevention of contrast-induced nephropathy in receiving intravenous contrast patients. Single center randomized, double-blind study will be conducted on 122 patients. After consent obtaining, patients information's such as age, sex, history of chronic and acute renal disease, underlying disease, diagnostic intervention, drug history, previous use of statins and known history of statins hypersensitivity will be recorded. The subjects randomly will be divided into drug and placebo groups. In the lovastatin group, 60 milligrams lovastatin will be administered 24 hours before diagnostic procedures, the day of the procedure and 24 hours after contrast injection. In the placebo group, placebo will be administered 24 hours before, the day of the procedure and 24 hours after contrast injection. In the first time and 48 hours after contrast injection to measure serum creatinine, blood samples will be taken. Increased serum creatinine greater than 0.5 mg per deciliter or an increased more than 25 percent of the base is considered as contrast-induced acute kidney injury.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017041033359N1**

Registration date: **2017-05-15, 1396/02/25**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2017-05-15, 1396/02/25

##### Registrant information

##### Name

Mohammad saad forghani

##### Name of organization / entity

Kurdistan university of medical sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 918 875 2138

##### Email address

m.s.forghani@muk.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Kurdistan University of Medical Sciences

##### Expected recruitment start date

2017-03-21, 1396/01/01

##### Expected recruitment end date

2017-06-21, 1396/03/31

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Efficacy of short-term high-dose lovastatin in prevention of contrast-induced acute kidney injury in patients receiving intravenous contrast drugs

##### Public title

lovastatin effect in preventing of contrast induced acute kidney injury

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion criteria: patients that need intravenous contrast administration. Exclusion criteria: Acute kidney injury;

acute coronary syndrome and acute myocardial infarction; statin sensitivity; patients Dissatisfaction

## Age

From **18 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **122**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

## Placebo

Used

## Assignment

Single

## 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 scieces, Pasdran St, sanandaj,Iran, Islamic Republic Of

##### City

Sanandaj

##### Postal code

6617713446

#### Approval date

2015-07-23, 1394/05/01

#### Ethics committee reference number

MUK.REC. 1394/143

## Health conditions studied

### 1

#### Description of health condition studied

Contrast induced acute kidney injury

#### ICD-10 code

N17.8

#### ICD-10 code description

Other acute renal failure

## Primary outcomes

### 1

#### Description

Acute kidney injury

#### Timepoint

Basline and 4h hours after diagnostic intervention

#### Method of measurement

Serum creatinine and MDRD e GFR

### 2

#### Description

Acute kidney injury

#### Timepoint

48 h after intervention

#### Method of measurement

Serum creatinine and MDRD e GFR

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

In the intervention group, 60 milligrams of lovastatin administered on the day before the procedure, the day of the procedure, and the day after the procedure.

#### Category

Treatment - Drugs

### 2

#### Description

The control group received placebo similar to lovastatin tabletes.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Tohid hospital

##### Full name of responsible person

Khaled Fathizadeh

##### Street address

Pasdaran St.

##### 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**

Ebrahim Ghaderi

**Street address**

Kurdistan University of Medical Sciences, Pasdaran St, Iran, Islamic Republic Of

**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**

Khled fathizadeh

**Position**

Internal Medicine resident

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

University of Medical Sciences, Pasdaran St, Kurdistan, Iran, Islamic Republic Of

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+98 87 3328 6117

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khaledfathizadeh54@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**

Mohammad Saad Forghani

**Position**

Nephrologist

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

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**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

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**Full name of responsible person**

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**Position**

Internal medicine resident

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

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**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*