Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

Effect of Simvastatin on inflammatory marker and improvement of GFR in CRF patient

Protocol summary

Summary

The objective of this study was to assess the effect of Simvastatin on the inflammatory factors and GFR of patients with chronic renal failure. 40 patients with chronic renal failure aged between 15 and 70, GFR between 20 and 70 and LDL more than were divided to two groups. Intervention group received Simvastatin 20 mg daily and control groups didn't receive any treatment. Lipid profile (cholesterol, triglyceride, LDL, and HDL), inflammatory markers (IL-6, CRP, and HS) and renal function (GFR, BUN, and creatinin) were measured and compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138712071698N3**
Registration date: **2009-10-26, 1388/08/04**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2009-10-26, 1388/08/04

Registrant information

Name

Mahmood Akhzari

Name of organization / entity

Shiraz University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 71 1647 0191

Email address

akhzari@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2007-12-22, 1386/10/01

Expected recruitment end date

2008-12-21, 1387/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Simvastatin on inflammatory marker and improvement of GFR in CRF patient

Public title

Effect of Simvastatin on inflammatory marker and improvement of GFR in CRF patient

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 15-70 years, presence of chronic renal failure, LDL more than 100 Exclusion criteria: Immune deficiency, receiving corticosteroid, NSAID or other drugs that affect on lipid profile, LDL>100, presence of malignancy or connective tissue disorder, hypersensitivity to Simvastatin

Age

From **15 years** old to **70 years** old

Gender

Both

Phase

N/A

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
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Shiraz University of Medical Sciences

Street address
Zand street

City
Shiraz

Postal code

Approval date
2008-09-15, 1387/06/25

Ethics committee reference number
CT-78-4183

Health conditions studied

1

Description of health condition studied
Chronic Renal Failure

ICD-10 code
N18.0

ICD-10 code description
Diseases of the genitourinary system

Primary outcomes

1

Description
Renal Function Test

Timepoint
Baseline and 4 months after intervention

Method of measurement
GFR, BUN, Creatinine

Secondary outcomes

1

Description
IL6

Timepoint
Baseline and 4 months after intervention

Method of measurement
Direct Serum Measurement (ELISA)

2

Description
Lipid profile (TG, CHOLESETROL, HDL, LDL)

Timepoint
Baseline and 4 months after intervention

Method of measurement
Direct measurement of TG, Cholestrol, and HDL, and LDL by formula

3

Description
HS-CRP

Timepoint
Baseline and 4 months after intervention

Method of measurement
Direct Serum Measurement (ELISA)

Intervention groups

1

Description
Simvastatin, 20 mg daily, for 4 months

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Nemazee hospital, Nephrology clinic

Full name of responsible person
Dr. Mahmood Akhzari

Street address
Nemazee Hospital, Internal Medicine Office

City
Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
Dr.Dabbaghmanesh

Street address
Shiraz University of Medical Sciences, Vice-chancellor for Research

City
Shiraz

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shiraz 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
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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