

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 2026

Evaluation of Curcumin's effect on inflammatory markers(Erythrocyte Sedimentation Rat, Interleukin-6, Ferritin, C-Reactive Protein) in End Stage Renal Disease patient under hemodialysis

Protocol summary

Registration timing: **prospective**

Study aim

Comparison of Interleukin-6, Erythrocyte Sedimentation Rate, Ferritin level and C-Reactive Protein level before and after consumption of curcumin in patients with End Stage Renal Disease under hemodialysis

Last update: **2020-07-05, 1399/04/15**

Update count: **0**

Registration date

2020-07-05, 1399/04/15

Design

This study is a before and after clinical trial in which each study sample is considered as control group (before intervention) and as case group(after intervention).

Sample size is 42.

Registrant information

Name

Mohammad Ali Torabi

Name of organization / entity

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Iran (Islamic Republic of)

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Settings and conduct

This study will be done in hemodialysis ward's Sina hospital of Tabriz medical Science university. Sampling method is convenience method.

Participants/Inclusion and exclusion criteria

Entry requirement: Patients with chronic renal failure under hemodialysis No entry requirement: Patients with history of bleeding from fistula

Recruitment status

Recruitment complete

Funding source

Intervention groups

After selecting of samples, Interleukin 6 level, Erythrocyte Sedimentation Rate, C-Reactive Protein level and ferritin level will be analyzed. Then Curcumin tablet 47.5 mg will be prescribed daily for 4 months and at the end Interleukin 6 level, Erythrocyte Sedimentation Rate, C-Reactive Protein level and ferritin level will be analyzed again.

Expected recruitment start date

2020-09-22, 1399/07/01

Expected recruitment end date

2021-02-19, 1399/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Main outcome variables

Interleukin 6 level, Erythrocyte Sedimentation Rate, C-Reactive Protein level and ferritin level

Scientific title

Evaluation of Curcumin's effect on inflammatory markers(Erythrocyte Sedimentation Rat, Interleukin-6, Ferritin, C-Reactive Protein) in End Stage Renal Disease patient under hemodialysis

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200613047751N1**

Registration date: **2020-07-05, 1399/04/15**

Public title

Evaluation of Curcumin's effect on inflammation in hemodialysis patients.

IR.TBZMED.REC.1399.159

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Interest to participate in the study Suffering from chronic renal failure Lack of consumption of nonsteroidal anti-inflammatory drugs lack of consumption of Curcumin at least one month before study

Exclusion criteria:

Suffering from active cancer History of cancer Consumption of anti-coagulation drugs Suffering of inflammatory and rheumatoid diseases Suffering of active infection History of bleeding through fistula No consumption of 15 percent of tablets

Age

From **25 years** old to **75 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **42**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

5C, Arjang building, Lale stree, Negarestn, Sarvestan, Roshdei

City

Tabriz

Province

East Azarbaijan

Postal code

5155893747

Approval date

2020-05-18, 1399/02/29

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

End Stage Renal Disease

ICD-10 code

N18.6

ICD-10 code description

End stage renal disease

Primary outcomes

1

Description

Serum's level of interleukin-6

Timepoint

Before intervention and 4 months after intervention

Method of measurement

ELISA test

2

Description

Erythrocyte sedimentation rate

Timepoint

Before intervention and 4 months after intervention

Method of measurement

Modified Westergren

3

Description

Serum's level c- reactive protein

Timepoint

Before intervention and 4 months after intervention

Method of measurement

Latex Agglutinasition

4

Description

Serum's level of ferritin

Timepoint

Before intervention and 4 months after intervention

Method of measurement

chemiluminescence

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Studying unites receive curcumin tablet orally once a day for 4 months. these tablets are

curcuma brand of Dine company and have 475 mg curcumin.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hemodialysis ward of Sina hospital of Tabriz
University of Medical Sciences

Full name of responsible person

Hamid Noshad

Street address

Sina hospital, Azadi Street

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East Azarbaijan

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5163639888

Phone

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Fax

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Email

hosp_sina@sina.tums.ac.ir

Web page address

<http://www.sinahospital.tums.ac.ir>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Mohammad Samii

Street address

Third floor, Second building of Tabriz University of
medical Sciences, Gogasht street

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Email

research-vice@tbzmed.ac.ir

Web page address

<https://researchvice.tbzmed.ac.ir>

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

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Ali BanagozarMohammadi

Position

Assistant Professor

Latest degree

Subspecialist

Other areas of specialty/work

Toxicology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Maryam Zaare Nahandi

Position

Assistant Professor

Latest degree

Subspecialist

Other areas of specialty/work

Internal Medicine

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Person responsible for updating data

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Web page address
<https://sinahosp.tbzmed.ac.ir>

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

All of the study variables will be shared without patient profiles

When the data will become available and for how long

From immediately after printing until a year later

To whom data/document is available

Researchers from scientific and research institutes

Under which criteria data/document could be used

Data will be usable just for checking methodology and data analysis methods without publication right

From where data/document is obtainable

Mohammad Ali Torabi Address: central building of Tabriz university of medical science Phone number:00989332718044 Email: torabim@tbzmed.ac.ir

What processes are involved for a request to access data/document

1.Send a Written request to Email address 2.Review the request by project partners within a week 3.Send requested information within 2 weeks from request time provided with the consent of partners

Comments