Clinical Trial Protocol
Iranian Registry of Clinical Trials

11 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

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

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.

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

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.

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

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200613047751N1**
Registration date: **2020-07-05, 1399/04/15**
Registration timing: **prospective**

Last update: **2020-07-05, 1399/04/15**
Update count: **0**

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

Registrant information

Name
Mohammad Ali Torabi

Name of organization / entity

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Iran (Islamic Republic of)

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+98 41 3668 7845

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Recruitment status
Recruitment complete

Funding source

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

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

Public title

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

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
IR.TBZMED.REC.1399.159

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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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 Sciencs, Gogasht street

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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

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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