

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jul 2026

Effect of Curcumin on the Blood Fructoseamine, Lipid profile and Lipid peroxidation in Type 2 Diabetic Patients

Protocol summary

Summary

This study will assess the effect of curcumin on fructoseamine, lipids profile and lipid peroxidation in type 2 diabetic patients. This study is a clinical trial. Sixty type 2 diabetic patients will randomly categorize into two groups of intervention and control. The intervention group will receive two capsules of 600 mg curcumin and the control group will take placebo daily for 6 weeks. The blood samples will collect in both groups at the beginning and end of the experiment. The lipid profile will measure by autoanalyzer. The rest of serums will freeze for measuring fructoseamine and malondialdehyde. These tests will repeat after six weeks. Statistical analysis will be done using Spss 15 and paired and independent t tests.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201102045697N2**

Registration date: **2015-08-01, 1394/05/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-08-01, 1394/05/10

Registrant information

Name

Nayerreh Parsaeyan

Name of organization / entity

Shahid Sadoughi University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences, Diabetic Center of Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2013-08-23, 1392/06/01

Expected recruitment end date

2013-10-07, 1392/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Curcumin on the Blood Fructoseamine, Lipid profile and Lipid peroxidation in Type 2 Diabetic Patients

Public title

Effect of Curcumin for Treatment of Diabetes

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria age 40 to 60, history of diabetes less than 10 years, fasting blood glucose 130 to 200 mg%, 2 hours blood glucose 160 to 250mg%, type of medicine for controlling blood glucose: solphonyl urea and metformin. Exclusion criteria people who had surgery, pregnant and lactating women, no change in food habits and physical activity and consumption of medicines which effect on the blood lipids and glucose.

Age

From **40 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

-

Secondary trial Id

-

Registration date

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Yazd Shahid Sadoughi University of Medical Sciences

Street address

Central Building of Shahid sadoughi University of Medical Sciences, Bahonar Ring, Yazd

City

Yazd

Postal code

Approval date

2014-08-13, 1393/05/22

Ethics committee reference number

17/1/102061

Health conditions studied

1

Description of health condition studied

diabetes mellitus

ICD-10 code

-

ICD-10 code description

-

Primary outcomes

1

Description

Fructoseamine

Timepoint

before intervention and one and half month after intervention

Method of measurement

micromole per liter

Secondary outcomes

1

Description

Malondialdehyde

Timepoint

before intervention and one and half month after intervention

Method of measurement

nanomole per liter

Intervention groups

1

Description

The intervention group will be 30 type 2 diabetic patients with retinopathy. They will consume two curcumin c power capsules (575 mg curcumin c and 25 mg bioperine purchased from Asmi Direct Marketing Pvt.Ltd banglore 560034 India) daily between their meals for 6 weeks which will be prescribed by doctor.

Category

Treatment - Drugs

2

Description

The control group will be 30 type 2 diabetic patients without retinopathy.They will match in terms of age and sex with case group.They will consume two cellulose capsule (sigma) between their meal for six weeks.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Diabetes Center of Yazd Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Nayerreh Parsaeyan

Street address

Diabetes Research Center, Shahid Sadoughi Boulevard, Yazd

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Diabetes Research Center of Yazd Shahid Sadoughi
University of Medical Sciences

Full name of responsible person

Mrs akram barzegary

Street address

Diabetes Research Center of Yazd Shahid Sadoughi
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Yazd

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

Yes

Title of funding source

Diabetes Research Center of Yazd Shahid Sadoughi
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**

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Full name of responsible person

Nayereh Parsaeyan

Position

M Sc, Instructor

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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