

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

The effects of curcumin-piperine supplementation on inflammatory, oxidative stress and metabolic indicators in patients with ischemic stroke in the rehabilitation phase: a double-blind clinical trial study

Protocol summary

Study aim

The effects of curcumin-piperine supplementation on inflammatory, oxidative stress and metabolic indicators in patients with ischemic stroke in the rehabilitation phase: a double-blind clinical trial study

Design

Randomized, double-blind, placebo-controlled clinical trial

Settings and conduct

In this study, 60 patients with a stroke referred to the Imam Moosa Sadr Clinic were randomly divided into intervention (Curcumin-piperine 500 mg) and placebo (maltodextrin) according to inclusion and exclusion criteria. , so the researcher did not know the intervention type in addition to the participants themselves. To double-blind this study, all capsules were coded as A and B prior to study initiation, so that the researcher did not know the intervention type addition to the participants themselves.

Participants/Inclusion and exclusion criteria

Inclusion criteria: The person has had a stroke only once, At least 3-6 months have passed since the stroke (sub acute and chronic phase), NIHSS =5-24, diagnosis of stroke by CT-scan and MRI, Age=20-65 years old, BMI=18/5-35, Tendency to participate in the study. Exclusion criteria: Taking anticoagulants such as aspirin, heparin, warfarin, etc. Taking antioxidant and multivitamin supplements and omega-3 supplements. Having malignant diseases and cancers

Intervention groups

Intervention group a daily curcumin-piperine capsule(500 mg curcumin+ 5 mg piperine) and placebo group a daily maltodextrin capsule will receive after meal for 12 weeks.

Main outcome variables

TG; TC; HDL; LDL; Weight; BMI; Waist circumference; Total antioxidant capacity; Fibrinogen; Hs-CRP; BP

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20121216011763N48**

Registration date: **2020-12-18, 1399/09/28**

Registration timing: **prospective**

Last update: **2023-01-11, 1401/10/21**

Update count: **1**

Registration date

2020-12-18, 1399/09/28

Registrant information

Name

Gholamreza Askari

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 31 1792 2110

Email address

askari@mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-12-19, 1399/09/29

Expected recruitment end date

2021-04-18, 1400/01/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	
Scientific title	The effects of curcumin-piperine supplementation on inflammatory, oxidative stress and metabolic indicators in patients with ischemic stroke in the rehabilitation phase: a double-blind clinical trial study
Public title	Effect of curcumin-piperine in patients with ischemic stroke
Purpose	Treatment
Inclusion/Exclusion criteria	
Inclusion criteria:	The person has had a stroke only once At least 3-6 months have passed since the stroke (subacute and chronic phase) NIHSS =5-24 diagnosis of stroke by CT-scan and MRI Age=20-65 years old BMI=18/5-35 Tendency to participate in the study
Exclusion criteria:	Taking anticoagulants such as aspirin, heparin, warfarin, etc. Taking antioxidant and multivitamin supplements and omega-3 supplements Having malignant diseases and cancers
Age	From 20 years old to 65 years old
Gender	Both
Phase	N/A
Groups that have been masked	- Participant - Investigator
Sample size	Target sample size: 80
Randomization (investigator's opinion)	Randomized
Randomization description	Randomization will conduct based on permuted block randomization method. Each block will have capacity for 4 subjects. Then, within each block, subjects will be randomly assigned to treatment or placebo. Random assignment will be done using a random number table
Blinding (investigator's opinion)	Double blinded
Blinding description	In order to conduct this research in a double-blind manner, before starting the study, the relevant capsules are coded in A and B by a person other than the researcher, so that the researcher does not know the type of capsules received by both participants and researchers.
Placebo	Used
Assignment	Parallel
Other design features	
Secondary Ids	empty
Ethics committees	
1	
Ethics committee	
Name of ethics committee	Ethics committe of Isfahan University of Medical Sciences
Street address	Isfahan University of Medical Sciences, Hezar Jerib Avenue
City	Isfahan
Province	Isfahan
Postal code	8174673461
Approval date	2020-11-18, 1399/08/28
Ethics committee reference number	IR.MUI.RESEARCH.REC.1399.593
Health conditions studied	
1	
Description of health condition studied	Ischemic stroke
ICD-10 code	I63
ICD-10 code description	Cerebral infarction
Primary outcomes	
1	
Description	HS-CRP
Timepoint	The beginning and the end of the study
Method of measurement	ELISA kit
2	
Description	TAC
Timepoint	The beginning and the end of the study
Method of measurement	Laboratory method
3	
Description	Fibrinogen plasma level
Timepoint	

The beginning and the end of the study

Method of measurement

ELISA kit

4

Description

Lipid profile

Timepoint

The beginning and the end of the study

Method of measurement

Enzymatic method

5

Description

Systolic and diastolic blood pressure

Timepoint

The beginning and the end of the study

Method of measurement

Mercury Barometer

Secondary outcomes

1

Description

Weight

Timepoint

The beginning and the end of the study

Method of measurement

Digital scale

2

Description

Waist Circumference (WC)

Timepoint

The beginning and the end of the study

Method of measurement

Inelastic meters

3

Description

Body mass index (BMI)

Timepoint

The beginning and the end of the study

Method of measurement

Dividing the weight into kilograms by squared height by meter

Intervention groups

1

Description

Intervention group: A daily curcumin-piperine capsule(500 mg curcumin + 5 mg piperine) will receive after meal for 12 weeks.

Category

Treatment - Drugs

2

Description

Control group: A daily placebo capsule(505 mg maltodextrin) will receive after meal for 12 weeks

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Moosa Sadr Clinic

Full name of responsible person

Mohammad Bagherniya

Street address

Imam Moosa Sadr Clinic, Shohada Squre, Isfahan, Iran

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8135798111

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Web page address

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Shaghayegh Haghjou

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes
Title of funding source
Esfahan 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
Esfahan University of Medical Sciences
Full name of responsible person
Kosar Boshagh
Position
Masters student
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Person responsible for updating data

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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

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

The collected deidentified for the primary outcome measure only will be shared

When the data will become available and for how long

12 months after publication

To whom data/document is available

Researchers and academic and research institutes
Under which criteria data/document could be used
To do similar designs
From where data/document is obtainable
Answer the person

What processes are involved for a request to access data/document
The data will be sent to the person after receiving the request and reviewing the request.
Comments