

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of quercetin supplementation on serum level of Asymmetric Dimethylarginine in patients in the chronic Phase of Ischemic stroke

Protocol summary

Summary

This study is a double-blind clinical trial. Seventy two patients who are in the chronic phase of ischemic stroke (6 month-2 years), 50- 75 years old, Body mass index between 25- 35 will be selected. At first the disease in patients is diagnosed by a neurologist and if there are no exclusion criteria include Body mass index more than 35, Body mass index under 25, liver disease, kidney disease, hypo or hyper thyroid, Hemorrhagic stroke, Hormone therapy (HRT), intake of warfarin, they have the permission to participate in this study. Patients will be divided randomly into two groups. Thirty six patients in the intervention group will receive 2 capsules of 500 mg quercetin twice daily for two months. Thirty six patients in the control group will receive 2 capsules placebo twice daily for two months. We need blood samples of these patients at the beginning and the end of the study for comparison and evaluation of serum levels of Asymmetric Dimethylarginine, fasting blood sugar and lipid profile. Moreover we measure weight, height and blood pressure`s patients at the beginning and the end of study. Besides we have 24 hour recall questionnaires in order to check dietary intake of macronutrients and micronutrients in the first 3 days and last 3 days of supplementation. The data will analyze in SPSS.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202269142N1**
Registration date: **2012-08-04, 1391/05/14**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-08-04, 1391/05/14

Registrant information

Name

Farnaz Esmaeelzadeh

Name of organization / entity

Tehran University of Medical Sciences

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Iran (Islamic Republic of)

Phone

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farnaz_2500@yahoo.com

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2012-06-20, 1391/03/31

Expected recruitment end date

2012-09-19, 1391/06/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of quercetin supplementation on serum level of Asymmetric Dimethylarginine in patients in the chronic Phase of Ischemic stroke

Public title

Effect of quercetin in treatment of stroke

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients in the chronic phase of ischemic stroke (6 month- 2 years), 50- 75 years old, Body mass index between 25- 35. Exclusion criteria: Body mass index more than 35, Body mass index under

25, liver disease, kidney disease, hypo or hyper thyroid, Hemorrhagic stroke, Hormone therapy (HRT), intake of warfarin.

Age

From **50 years** old to **75 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **72**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tehran University of Medical Sciences

Street address

6th floor, Central building of Tehran University, Ghods St., Keshavarz blvd

City

Tehran

Postal code

Approval date

2012-06-05, 1391/03/16

Ethics committee reference number

91/130/264/5

Health conditions studied

1

Description of health condition studied

cerebral infarction(ischemic stroke)

ICD-10 code

I63

ICD-10 code description

Cerebral infarction

Primary outcomes

1

Description

Asymmetric Dimethylarginine

Timepoint

Start of survey and end of the second month

Method of measurement

Micromol/L with Human ADMA ELISA Kit

Secondary outcomes

1

Description

Total cholesterol

Timepoint

Start of survey and end of the second month

Method of measurement

mg/dl with kit

2

Description

Triglyceride

Timepoint

Start of survey and end of the second month

Method of measurement

mg/dl with kit

3

Description

Low density lipoprotein

Timepoint

Start of survey and end of the second month

Method of measurement

mg/dl with kit

4

Description

High density lipoprotein

Timepoint

Start of survey and end of the second month

Method of measurement

mg/dl with kit

5

Description

Fast blood glucose

Timepoint

Start of survey and end of the second month

Method of measurement

mg/dl with kit

6

Description

blood pressure

Timepoint

Start of survey and end of the second month
Method of measurement
mmgh

Intervention groups

1

Description
Quercetin, oral capsule 500 mg, twice a day in two months
Category
Treatment - Drugs

2

Description
placebo, oral capsules, twice a day in two months
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Firouzgar General Hospital
Full name of responsible person
Dr. Masoud Mehrpour
Street address
Behafarin St., Hafez St., Karim Khan Zand St.
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Akbar Fatouhi
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Sixth floor, Central building of Tehran University,
Ghods st, Keshavarz blvd
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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
Tehran 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
Tehran University of Medical Sciences
Full name of responsible person
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MS student in nutrition
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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