

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 May 2026

Boswellia resin extract effect on plasma levels of inflammatory cytokines in patients with Parkinson's disease

Protocol summary

Study aim

Investigation of anti-inflammatory effect of Boswellia resin extract on inflammatory factors in Parkinsons patients

Design

Two arm randomized trial, parallel groups, with control group, with blinding

Settings and conduct

This trial is performed in Imam Khomeini hospital complex based on block randomization in double blind manner. Every person who is involved in caring and treatment of patients including patient companions, physicians, nurses and investigators are blinded.

Participants/Inclusion and exclusion criteria

Inclusion criteria: UPDRS= mild and moderate stage, No family background of parkinson disease, BMI between 18-25, No peptic ulcer history, surgery or hemorrhage of gastrointestinal system, No NSAIDs or continuous systemic corticosteroid use for two previous months of research, No alcohol consumption, Age between 55 and 85, No record of other specific central nervous system disease like Alzheimer's disease, multifactorial dementia, medulla oblongata dementia, Huntington's disease, hydrocephalus, brain tumors, severe supra nuclear palsy, epilepsy, flocculation among brain tissue layers, or multiple sclerosis, Not taking drugs that might affect cognitive behaviour or perception like estrogen, deprenyl, vitamine E, neuroleptic compounds and anticholinergics, No consuming complements containing vitamine B12 or folic acid, No severe heart or vascular disease, No kidney or liver disorder Exclusion criteria: Acute viral, bacterial or severe infectious disease during research

Intervention groups

Boswellia resin extract group, Placebo group

Main outcome variables

Inflammatory blood factors

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170315033086N4**

Registration date: **2019-04-12, 1398/01/23**

Registration timing: **retrospective**

Last update: **2019-04-12, 1398/01/23**

Update count: **0**

Registration date

2019-04-12, 1398/01/23

Registrant information

Name

Saeed Karima

Name of organization / entity

Shahid Beheshti University of Medical Sciences (SBMU)

Country

Iran (Islamic Republic of)

Phone

+98 21 9666 1028

Email address

karima@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2017-06-22, 1396/04/01

Expected recruitment end date

2018-10-23, 1397/08/01

Actual recruitment start date

2017-10-02, 1396/07/10

Actual recruitment end date

2018-12-03, 1397/09/12

Trial completion date

2019-02-24, 1397/12/05

Scientific title

Boswellia resin extract effect on plasma levels of inflammatory cytokines in patients with Parkinson's disease

Public title

The effect of Boswellia resin extract on treatment of patients with Parkinson's disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

In accordance to UPDRS, only patients in mild and moderate stage will be recruited. No background of parkinson disease in patient's family. It must be recorded in the primary questionnaire. The substance consumed in this research make no conflict with prescribed medicines by the physician, and all the patients recruited in this study will receive the same combination of medicines. BMI between 18 to 25, this parameter is determined by researcher and physician. No background of peptic ulcer, any surgery of digesting system, or haemorrhage of digesting system. Age between 55 and 85. No severe heart or vascular disease. No kidney or liver disorder.

Exclusion criteria:

Acute or severe infectious disease (viral, bacterial) during research

Age

From **55 years** old to **85 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

Sample size

Target sample size: **50**

Actual sample size reached: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization is designed based on four-sized block randomization. An unordered computer list is generated by an epidemiologist. Codes are written on envelopes and medication bottles. Patients allocation and sequencing are done blind.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients allocation is done in a blinded manner. All staffs who are involved to perform the enrollment, physicians, nurses and investigator team are all masked.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahid Beheshti University of Medical Sciences, School of Medicine

Street address

Ground floor, medical faculty, Koodakyar Alley, Daneshjoo Blvd, Velenjak, Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1985717434

Approval date

2016-06-05, 1395/03/16

Ethics committee reference number

IR.SBMU.MSP.REC.1395.603

Health conditions studied

1

Description of health condition studied

Parkinson disease

ICD-10 code

G20

ICD-10 code description

Parkinson disease

Primary outcomes

1

Description

Pro- and anti-inflammatory factors

Timepoint

At the recruitment day and after intervention

Method of measurement

ELISA assay kit

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Boswellia Resin extract receiving group, 3 times/day (400 mg)

Category

Treatment - Drugs

2

Description

Control group: Placebo group, 3 times/day (400 mg)

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Complex Hospital

Full name of responsible person

Bahram Yaghmayi

Street address

Dr. Gharib St., Keshavarz Blv., Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1419733141

Phone

+98 21 6658 2678

Email

Imamhospital@tums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Bahram Yaghmayi

Street address

Velenjak St. , Shahid Chamran Highway, Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 2387 2570

Email

msp@sbmu.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Beheshti University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Other

Person responsible for general inquiries

Contact

Name of organization / entity

Bahram Yaghmayi

Full name of responsible person

Shahid Beheshti University of Medical Sciences

Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Biochemistry

Street address

Velenjak St. , Shahid Chamran Highway, Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1985717443

Phone

+98 21 2387 2570

Fax

Email

msp@sbmu.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

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Position

Professor

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Web page address

Person responsible for updating data

Contact

Name of organization / entity

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Web page address

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

Not applicable

Analytic Code

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

Data Dictionary

Not applicable

Title and more details about the data/document

collected deidentified IPD, IPD collected for the primary outcome measure only

When the data will become available and for how long

Deidentified data will be available starting from April, 2021

To whom data/document is available

People working in academic institutions or people working in businesses.

Under which criteria data/document could be used

No specific condition

From where data/document is obtainable

Bahram Yaghmayi, Shahid Madani St., Tehran, Iran, Tel: +982123872570 Mob. 09215450282

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

The process is: 1- Asking a written request contain the main reasons of data importance for the applicant 2- After receiving the request letter, data will be provided in two weeks.

Comments