

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jul 2026

Evaluating the effect of anti-inflammatory diet and flax seed on disease activity, inflammatory factors and quality of life in rheumatoid arthritis patients

Protocol summary

Study aim

Effect of anti-inflammatory diet with flaxseed on inflammatory factors, quality of life and disease activity criteria in people with rheumatoid arthritis

Design

In this double-blind study, we will test the effect of anti-inflammatory diet with this powder on disease activity, inflammatory factors, and quality of life in 120 patients. Patients are randomly divided into control and anti-inflammatory diet groups. At the beginning and at the end of the intervention, SF-36 and HAQ questionnaires will be completed. Finally, statistical analysis will be done using SPSS19 software.

Settings and conduct

Hafez Hospital of Shiraz, informed by patients informed consent, will be given to the intervention group anti-inflammatory training intervention and daily consumption of 30 grams of flaxseed powder using modular are recommended. questionnaires are completed and blood sampling in two stages At the end of the 3-month intervention, healthy control diet and toasted wheat powder will be given to the control group. During the study period, any changes in drug use will be recorded. Diet compliance is assessed weekly by telephone and any problems and side effects will be recorded.

Participants/Inclusion and exclusion criteria

Disease duration of at least 6 months, active disease with DAS28 criterion greater than 2.6 that is clinically established and controlled by the disease and range in age from 18 to 70 years. Individuals will not be included in the study if they have infectious diseases, cancer, and other inflammatory diseases such as liver and kidney failure, adherence to specific diets, drug dependence, alcohol consumption, and repeated use of herbal remedies.

Intervention groups

People with rheumatoid arthritis who are eligible for the study and have been enrolled with consent.

Main outcome variables

Anti-CCP, hs-CRP, EMS, ESR, DAS28, TJC, ESR, VAS, IL6, rheumatoid factor (RF)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190923044858N1**

Registration date: **2020-02-06, 1398/11/17**

Registration timing: **registered_while_recruiting**

Last update: **2020-02-06, 1398/11/17**

Update count: **0**

Registration date

2020-02-06, 1398/11/17

Registrant information

Name

Maryam Ghaseminasabparizi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3212 2566

Email address

ghaseminasab@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-01-21, 1398/11/01

Expected recruitment end date

2020-05-21, 1399/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the effect of anti-inflammatory diet and flax seed on disease activity, inflammatory factors and quality of life in rheumatoid arthritis patients

Public title

Evaluating the effect of anti-inflammatory diet and flax seed on disease activity in rheumatoid arthritis patients

Purpose

Supportive

Inclusion/Exclusion criteria**Inclusion criteria:**

Disease duration of at least 6 months, active disease with DAS28 criterion greater than 2.6, clinically established and controlled by the drugs and age range 18 to 70 years.

Exclusion criteria:

Individuals will not be included in the study if they have infectious diseases, cancer, and other inflammatory diseases such as liver and kidney failure, adherence to specific diets, drug dependence, alcohol consumption, and repeated use of herbal remedies.

Age

From **18 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be randomly divided into 2 groups (anti-inflammatory regimen with drug administration and control group with usual regimen with drug administration). Statistical software will be randomization tool.

Blinding (investigator's opinion)

Double blinded

Blinding description

This study is blinded to the use of flaxseed or placebo. Flaxseed and roasted wheat are powdered and packaged by someone other than the researcher and identified by the letters A and B.

Placebo

Used

Assignment

Other

Other design features

-

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Shiraz University of Medical Sciences

Street address

Headquarters of Shiraz University of Medical Sciences, Zand Street, opposite Palestine Street, Shiraz

City

Shiraz

Province

Fars

Postal code**Approval date**

2019-10-09, 1398/07/17

Ethics committee reference number

IR.SUMS.REC.1398.892

Health conditions studied**1****Description of health condition studied**

Rheumatoid arthritis

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Interlukin6

Timepoint

The beginning and the end of the study

Method of measurement

laboratory kit

2**Description**

Anti-CCP

Timepoint

The beginning and the end of the study

Method of measurement

laboratory kit

3**Description**

DAS28

Timepoint

The beginning and the end of the study

Method of measurement

Through examination

4

Description

Early Morning Stiffness

Timepoint

The beginning and the end of the study

Method of measurement

questionnaire

5

Description

Visual Analogue Scale

Timepoint

The beginning and the end of the study

Method of measurement

questionnaire

6

Description

Erythrocyte Sedimentation Rate

Timepoint

The beginning and the end of the study

Method of measurement

laboratory kit

Secondary outcomes

1

Description

Weight

Timepoint

The beginning and the end of the study

Method of measurement

Digital scales

2

Description

Waist

Timepoint

The beginning and the end of the study

Method of measurement

Tape measure

3

Description

Health Status

Timepoint

The beginning and the end of the study

Method of measurement

Health Status Questionnaire (SF-36)

4

Description

Health assessment

Timepoint

The beginning and the end of the study

Method of measurement

Stanford health assessment questionnaire(HAQ 8-item)

5

Description

3 days food record

Timepoint

The beginning, middle and end of the study

Method of measurement

food record

Intervention groups

1

Description

Intervention group1: Anti-inflammatory diet and flaxseed powder (30 g daily in two 15-g serving) for 3 months of diet and consumption of flaxseed

Category

Treatment - Other

2

Description

Intervention group II: Normal diet and flaxseed powder (30 g daily in two 15 gm serving) for 3 months

Category

Treatment - Other

3

Description

Control group: Normal diet and roasted wheat powder as placebo (30 g daily in two 15 gm serving) for 3 months

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hafez hospital

Full name of responsible person

Masoumeh Akhlaghi

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School of Nutrition and Food Sciences, Razi Blvd,
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Sponsors / Funding sources**1****Sponsor****Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source**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**

Shiraz University of Medical Sciences

Full name of responsible person

Masoumeh Akhlaghi

Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nutrition

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Position

associate professor

Latest degree

Ph.D.

Other areas of specialty/work

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Person responsible for updating data**Contact****Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

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Position

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

No more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available