

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Aug 2026

Comparative effects of flaxseed oil and vitamin E on non-invasive markers of liver in patients with nonalcoholic fatty liver disease.

Protocol summary

Summary

Objectives: Prescribing Flaxseed oil on the non invasive liver marker's in patients with non-alcoholic fatty liver disease. Design: Interventional- Not blinded. The major inclusion criteria are: The enzyme Aspartate Aminotransferase (AST) and Alanine Aminotransferase (ALT) at least 1.5 times above the normal limit, confirmed by the kidney sonography; Meeting at least one of the following criteria: Within the age range of 15-60 years old, diabetes, Hyperlipidemia, and Obesity. The major exclusion criteria are as follows: Consuming alcohol or having a history of drinking problems; Positive serology for viral hepatitis (C , B); Positive Anti-Nuclear Antibody (ANA) or Anti-Mitochondrial Antibodies (AMA) tests, Alpha-1 antitrypsin; Reduced serum levels of ceruloplasmin or increasing levels of Anti-smooth muscle (ASMA) and Liver kidney microsomal type 1 antibody (LKM1) antibodies; Ferritin level larger than 450, or Iron and Total iron binding capacity (IRON/TIBC) less than 45%; The patients being diagnosed with acute or chronic illnesses which cause disorders in LFT (liver function tests), before or during the medical intervention; the patients' consumption of drugs, before or during the medical intervention, which cause disorders in LFT; Pregnancy; Age less than 15 or above 60 years. Target sample size: 60 people Intervention group: Oral Flaxseed every day 3 times (1 gr) for 2 months; Control group: Oral E Vitamin 3 times a day for 2 months. Main outcome measure: Liver Enzyme (at the admission and 2 months after applying the intervention).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013111715427N1**

Registration date: **2014-01-21, 1392/11/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-01-21, 1392/11/01

Registrant information

Name

Ali Beheshti Namdar

Name of organization / entity

Imam Reza Hospital

Country

Iran (Islamic Republic of)

Phone

+98 915 110 8122

Email address

beheshtia901@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Mashhad University of Medical Medicine

Expected recruitment start date

2013-09-23, 1392/07/01

Expected recruitment end date

2014-01-21, 1392/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative effects of flaxseed oil and vitamin E on non-invasive markers of liver in patients with nonalcoholic fatty liver disease.

Public title

Comparative effects of flaxseed oil and vitamin E on non-invasive markers of liver in patients with nonalcoholic

fatty liver disease.

Purpose
Treatment

Inclusion/Exclusion criteria
The major inclusion criteria are: The enzyme Aspartate Aminotransferase (AST) and Alanine Aminotransferase (ALT) at least 1.5 times above the normal limit, confirmed by the kidney sonography; Meeting at least one of the following criteria: Within the age range of 15-60 years old, diabetes, Hyperlipidemia, and Obesity. The major exclusion criteria are as follows: Consuming alcohol or having a history of drinking problems; Positive serology for viral hepatitis (C , B); Positive Anti-Nuclear Antibody (ANA) or Anti-Mitochondrial Antibodies (AMA) tests, Alpha-1 antitrypsin; Reduced serum levels of ceruloplasmin or increasing levels of Anti-smooth muscle (ASMA) and Liver kidney microsomal type 1 antibody (LKM1) antibodies; Ferritin level larger than 450, or Iron and Total iron binding capacity IRON/TIBC less than 45%; The patients being diagnosed with acute or chronic illnesses which cause disorders in LFT (liver function tests), before or during the medical intervention; the patients' consumption of drugs, before or during the medical intervention, which cause disorders in LFT; Pregnancy; Age less than 15 or above 60 years.

Age
From **15 years** old to **60 years** old

Gender
Both

Phase
2

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
Not used

Assignment
Parallel

Other design features
the patients are randomly (and equally) divided into two groups, based on the table of random numbers; one group is administered Flaxseed oil and the other receives E vitamin

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee, Mashhad University of Medical

Sciences

Street address
Vice Chancellor for research of Mahhad University of Medical Sciences, Daneshgah Street, Ghoreishi Building, Mashhad

City
Mashhad

Postal code

Approval date
2013-02-20, 1391/12/02

Ethics committee reference number
910677/1/24

Health conditions studied

1

Description of health condition studied

Nonalcoholic fatty liver

ICD-10 code

K76.0

ICD-10 code description

Nonalcoholic fatty liver disease

Primary outcomes

1

Description

Liver Enzyme

Timepoint

Admission and 2 months after applying the intervention

Method of measurement

Blood Sampling

Secondary outcomes

1

Description

Blood Glucose

Timepoint

Admission and 2 months after applying the intervention

Method of measurement

Blood Sampling

Intervention groups

1

Description

Intervention group: Oral Flaxseed every day 3 times (1 gr) for 2 months

Category

Treatment - Drugs

2

Description

Control group: E Vitamin, Oral capsule, 3 times a day for 2 months

Category

Treatment - Drugs

Recruitment centers1**Recruitment center****Name of recruitment center**

Gastroenterology Clinic of Imam Reza Hospital

Full name of responsible person

Ali Beheshti Namdar

Street address

Imam Reza Hospital, Imam Reza Square, Ebnesina Street, Mashhad

City

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2**Recruitment center****Name of recruitment center**

Gastroenterology Clinic of GHAEM Hospital

Full name of responsible person

Ali Beheshti Namdar

Street address

Ghaem Hospital, Ahmadabad Street, Mashhad

City

Mashhad

Sponsors / Funding sources1**Sponsor****Name of organization / entity**

Vice Chancellor for research of Mashhad University of Medical Sciences

Full name of responsible person

Mohammad Ramezani

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Mashhad

Grant name**Grant code / Reference number**

-

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

Yes

Title of funding source

Vice Chancellor for research of Mashhad 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**

Imam Reza Hospital

Full name of responsible person

Ali Beheshti Namdar

Position

Student Subspecialist

Other areas of specialty/work**Street address**

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Position

student Subspecialist

Other areas of specialty/work

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Fax

Email

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