

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

The effect of low calorie diet with and without sibutramine on metabolic syndrome risk factors and sonographic findings in non alcoholic fatty liver

Protocol summary

Summary

This randomized double blind controlled trial was performed to determine the effect of low-calorie diet with and without sibutramine on risk factors of metabolic syndrome and ultrasound findings in 40 patients with non-alcoholic fatty liver (confirmed by ultrasound). After 12-14 hours fasting, blood sample was taken and concentration of triglyceride, glucose, AST, ALT, HbA1c and serum ferritin, total cholesterol, HDL-c, and LDL-c are checked and weight and height of the patients were measured by standard methods. Then the patients were assigned receive 15-mg capsules of sibutramine daily half an hour before lunch as well as vitamin E supplements (400 IU) once a day and weight loss diet for 3 months or only vitamin E supplement (400 IU) once a day and weight loss diet for 3 months. At the end of the third month, the patients were again repeated the above mentioned measures.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201012275483N1**
Registration date: **2011-01-28, 1389/11/08**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-01-28, 1389/11/08

Registrant information

Name

Zahra Bahmanabadi

Name of organization / entity

School of health & nutrition -Aras International Unit

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Aras International University

Expected recruitment start date

2010-04-18, 1389/01/29

Expected recruitment end date

2010-09-01, 1389/06/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of low calorie diet with and without sibutramine on metabolic syndrome risk factors and sonographic findings in non alcoholic fatty liver

Public title

The effect of sibutramine on non alcoholic fatty liver

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: non-alcoholic fatty liver disease, having 20 to 50 years old of both sexes, having BMI 30kg/m² or more, willing to participate Exclusion criteria: Presence of thyroid disorders, diabetes, or uncontrolled hypertension, use of glucose, cholesterol, or triglyceride lowering drugs, estrogen or progesterone usage, supplementation of vitamin C, or E over the two months prior to the study,

menopausal women, smoking and alcohol use, being athletes

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic Committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Tabriz, Iran

City

Tabriz

Postal code

Approval date

2011-01-02, 1389/10/12

Ethics committee reference number

8949

Health conditions studied

1

Description of health condition studied

non alcoholic fatty liver

ICD-10 code

k70, k77

ICD-10 code description

Diseases of liver

Primary outcomes

1

Description

liver echogenicity

Timepoint

before and after intervention

Method of measurement

sonography

2

Description

weight

Timepoint

every two week

Method of measurement

Nestle scale

Secondary outcomes

1

Description

total cholestrol

Timepoint

at the beginning and end of the intervation

Method of measurement

enzymatic method with autoanalysis system

2

Description

IDL-C

Timepoint

at the beginning and end of the intervation

Method of measurement

enzymatic method with autoanalysis system

3

Description

HDL-C

Timepoint

at the beginning and end of the intervation

Method of measurement

enzymatic method with autoanalysis system

4

Description

Glucose

Timepoint

at the beginning and end of the intervation

Method of measurement

enzymatic method with autoanalysis system

5

Description

AST

Timepoint

at the beginning and end of the intervation

Method of measurement

ELISA

6

Description

ALT

Timepoint

at the beginning and end of the intervention

Method of measurement

spectrophotometry

7

Description

ferritin

Timepoint

at the beginning and end of the intervention

Method of measurement

ELISA

8

Description

HbA1c

Timepoint

at the beginning and end of the intervention

Method of measurement

ELISA

9

Description

Triglyceride

Timepoint

at the beginning and end of the intervention

Method of measurement

enzymatic method with autoanalysis system

Intervention groups

1

Description

Control group: vitamin E 400 IU supplement once daily and weight loss diet for 3 months

Category

Treatment - Drugs

2

Description

Intervention group: 15-mg capsule of sibutramine once a day half an hour before lunch and vitamin E supplement (400 IU) once a day and weight loss diet for 3 months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Sheikhalrayis clinic

Full name of responsible person

Dr. Mehrangiz Ebrahimimamagani

Street address

Sheikhalrayis clinic, Golbad street

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

School of health & nutrition, Aras international university

Full name of responsible person

Mr. Farshidi

Street address

Tabriz University of Medical Sciences, Tabriz

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

School of health & nutrition, Aras international university

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

School of health and nutrition, Aras International University

Full name of responsible person

Zahra Bahmanabadi

Position

student of master science on nutrition

Other areas of specialty/work

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Person responsible for scientific inquiries

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Full name of responsible person

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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