

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

the Effect of Stevia Dry Leaves on Serum Levels of Liver Enzymes, Lipid Profile, Glycemic Indicators, Adiponectin and Leptin in Overweight and Obese Diabetic Patients with Non-Alcoholic Fatty Liver

Protocol summary

Study aim

the Effect of Stevia Dry Leaves on Serum Levels of Liver Enzymes, Lipid Profile, Glycemic Indicators, Adiponectin and Leptin in Overweight and Obese Diabetic Patients with Non-Alcoholic Fatty Liver

Design

The present study is a Phase 3 clinical trial, double-blind, and parallel, on 50 diabetic patients with overweight and obese fatty liver who have criteria for entering the study. The random numbers table is divided into two groups of intervention and control and each person is assigned a code.

Settings and conduct

This study was performed on diabetic patients with overweight and obesity and fatty liver, referred to Soroush specialized clinic in Ahvaz, Khuzestan province. At the beginning and the end of the study, fasting blood samples will be taken to evaluate lipid, glycemic, leptin, and adiponectin profiles. Physical diet and physical activity will be recorded by dietary intake and physical activity questionnaire.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Overweight and obese diabetic patients with non-alcoholic fatty liver (Grade 1, 2 and 3) having an ultrasound sheet with a non-alcoholic fatty liver diagnosis with a approved gastroenterologist in the range of 20 to 60 years of age radiologist and an Non-inclusion criteria: pregnancy and lactation; liver transplantation; hereditary hemochromatosis and Wilson; positive test for hepatitis C, B and autoimmune hepatitis

Intervention groups

Intervention group: 2 capsules of 250 mg of stevia dry leaves for 8 weeks Control group: 2 capsules of 250 mg starch per day for 8 weeks

Main outcome variables

Fasting Glucose; Insulin; Insulin Resistance; Lipid Profile;

Leptin ; Serum Adiponectin; and Liver Enzymes

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181119041701N1**

Registration date: **2019-07-05, 1398/04/14**

Registration timing: **retrospective**

Last update: **2019-07-05, 1398/04/14**

Update count: **0**

Registration date

2019-07-05, 1398/04/14

Registrant information

Name

Reyhaneh Mazrae

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3335 1511

Email address

mazrae.r@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-21, 1397/11/01

Expected recruitment end date

2019-06-22, 1398/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

the Effect of Stevia Dry Leaves on Serum Levels of Liver Enzymes, Lipid Profile, Glycemic Indicators, Adiponectin and Leptin in Overweight and Obese Diabetic Patients with Non-Alcoholic Fatty Liver

Public title

The effect of dried leaves of Stevia in the treatment of diabetes, non-alcoholic fatty liver and obesity

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Diabetic patients Overweight and obese Non-alcoholic fatty liver Having an ultrasound sheet with a diagnosis of non-alcoholic fatty liver In the age range of 20 to 60 years

Exclusion criteria:

Pregnancy and lactation liver transplantation smoking, alcohol and drugs complete intake of venous heart failure kidney diseases hereditary hemochromatosis and Wilson Having a positive test for hepatitis C, B and autoimmune hepatitis

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization, Use random numbers Table

Blinding (investigator's opinion)

Double blinded

Blinding description

The type of blindness in our study will be double-blind. Prior to the onset of the study, the box containing the relevant pills are coded A and B by an individual except the researcher, in order to blind the researcher about which supplement each group received. When delivering supplements to patients, some one except the researcher should locate the patient in either A or B group by random number table. In this study, the patients and researcher (who collecting data, assessing the outcome and analyzing the data) should be kept blind.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Ahvaz Jundishapur University of Medical Sciences

Street address

Vice chancellor for research and technology, Ahvaz Jundishapur University of Medical Sciences, Shahre Daneshgahi

City

Ahvaz

Province

Khouzestan

Postal code

6135715794

Approval date

2019-01-20, 1397/10/30

Ethics committee reference number

IR.AJUMS.REC.1397.778

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

Diabetes

ICD-10 code

E11.9

ICD-10 code description

Type 2 diabetes mellitus without complications

2**Description of health condition studied**

Non-alcoholic fatty liver

ICD-10 code

K76.0

ICD-10 code description

Fatty (change of) liver, not elsewhere classified

Primary outcomes**1****Description**

Lipid profile

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Laboratory test

2**Description**

Liver Enzymes

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Laboratory test

3

Description

Fasting blood sugar

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Laboratory test

4

Description

Insulin resistance

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Using the HOMA-IR formula

5

Description

Leptin

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Laboratory test

6

Description

Adiponectin

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Laboratory test

7

Description

Body mass index

Timepoint

Before and after 8 weeks of intervention

Method of measurement

The weight ratio in kilograms to the second power of height in meters

Secondary outcomes

1

Description

Systolic blood pressure

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Mercury pressure gauge

2

Description

diastolic blood pressure

Timepoint

Before and after 8 weeks of intervention

Method of measurement

Mercury pressure gauge

Intervention groups

1

Description

Intervention group: Everyone will receive 2 capsules 250 mg stevia per day for 8 weeks

Category

Treatment - Drugs

2

Description

Control group: Everyone will receive placebo, starch, 2 capsules 250 mg per day for 8 weeks

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Soroush Special Clinic

Full name of responsible person

Dr. Pejman Alavinejad

Street address

West Soroush Avenue, Kianpars

City

Ahvaz

Province

Khuzestan

Postal code

61357-15794

Phone

+98 61 3333 7908

Email

Mazrae.r@ajums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Badvi

Street address

Vice chancellor for research and technology, Ahvaz Jundishapur University of Medical Sciences, Golestan Ave.

City
Ahwaz
Province
Khouzestan
Postal code
61357-15794
Phone
+98 61 3336 7570
Fax
+98 61 3336 1544
Email
badavi-m@ajums.ac.ir

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Ahvaz University of Medical Sciences
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
Ahvaz University of Medical Sciences
Full name of responsible person
Reyhaneh Mazrae
Position
Master's Degree in Nutrition Sciences
Latest degree
Bachelor
Other areas of specialty/work
Nutrition
Street address
Golestan Highway
City
Ahwaz
Province
Khouzestan
Postal code
61357-15794
Phone
+98 61 3373 8383
Email
Mazrae.r@gmail.com

Person responsible for scientific inquiries

Contact
Name of organization / entity

Ahvaz University of Medical Sciences
Full name of responsible person
Majid Mohammad Shahi
Position
Associate Professor of Nutrition
Latest degree
Ph.D.
Other areas of specialty/work
Nutrition
Street address
Department of Nutrition, Faculty of Paramedicine,
Jundishapur University of Medical Sciences, Golestan
Ave.
City
Ahwaz
Province
Khouzestan
Postal code
61357-15794
Phone
+98 61 3373 8317
Email
mohamadshahi-m@ajums.ac.ir

Person responsible for updating data

Contact
Name of organization / entity
Ahvaz University of Medical Sciences
Full name of responsible person
Reyhaneh Mazrae
Position
Masters of Nutrition
Latest degree
Bachelor
Other areas of specialty/work
Nutrition
Street address
Department of Nutrition, Faculty of Paramedicine,
Ahwaz, Golestan Ave., Jundishapur University of
Medical Sciences, Ahvaz, Iran.
City
Ahwaz
Province
Khouzestan
Postal code
61357-15794
Phone
+98 61 3373 8383
Email
Mazrae.r@ajums.ac.ir

Sharing plan

Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available
Study Protocol
Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to

make this available

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

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

Data Dictionary

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