

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Effect of honey consumption on the lipid profile, blood pressure, and serum levels of adiponectin and C-reactive protein in patients with type 2 diabetes

Protocol summary

Summary

The purpose of this study is determination of the effect of honey consumption on glycemic control and oxidant and antioxidant compounds in patients with type 2 diabetes. The study is cross-sectional with two groups, the intervention group that will receive honey and a control group. The sample size is 50 in each group. Participants are patients with type 2 diabetes with fasting blood sugar < 200 mg/dl. Participants should be non-insulin dependent without a critical medical condition or infectious disease. Hospitalization or involvement in serious diseases will exclude patients from the study. The participants will be asked not to change their diet, life style, and physical activity during the study. In the first sequence of the study, one group will receive honey (50 g/day) for 8 weeks while the control group will be left without any intervention. Then a 4-week wash-out period will be established in which both of the groups do not consume honey. After the wash-out period, the second sequence of study will start and the role of groups will interchange. Both groups will be on weight-maintenance diet throughout the study. At the beginning and end of each sequence of study, blood samples will be collected to assess the changes (lipid profile, serum adiponectin and c-reactive protein).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015062122364N2**

Registration date: **2015-08-04, 1394/05/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-08-04, 1394/05/13

Registrant information

Name

Fateme Sadeghi

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 3640 7221

Email address

f_sadeghi@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Shiraz University of Medical Sciences

Expected recruitment start date

2015-04-14, 1394/01/25

Expected recruitment end date

2015-09-16, 1394/06/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of honey consumption on the lipid profile, blood pressure, and serum levels of adiponectin and C-reactive protein in patients with type 2 diabetes

Public title

Effect of honey on type 2 diabetes

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: type II diabetic patient with a fasting blood sugar less than 200 milligrams per deciliter; free of a history or presence of malignancy; acute and emergency states; a history of major operations; a drug history of Immunomodulators, cytotoxic or immunosuppressive agents; no pregnancy or lactation if female; and not using insulin for diabetes control.

Exclusion criteria: Participants will exclude in the case of any kind of acute diseases; hospitalization or meet the criteria mentioned in Inclusion criteria.

Age

From **35 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

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

Central Building of Shiraz University of Medical Sciences, Zand Ave

City

Shiraz

Postal code

7134814336

Approval date

2015-03-08, 1393/12/17

Ethics committee reference number

CT-P-9386-8456

Health conditions studied

1

Description of health condition studied

diabetes

ICD-10 code

E10, E11,

ICD-10 code description

Non-insulin-dependent diabetes mellitus

Primary outcomes

1

Description

adiponectin

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period, 8 weeks after the start of the second period

Method of measurement

ELISA

2

Description

C-reactive protein

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period, 8 weeks after the start of the second period

Method of measurement

ELISA

Secondary outcomes

1

Description

Total cholesterol

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period , 8 weeks after the start of the second period of study

Method of measurement

Pars Azmun Kit

2

Description

triglyceride

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period , 8 weeks after the start of the second period of study

Method of measurement

Pars Azmun Kit

3

Description

LDL cholesterol

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period , 8 weeks after the start of the second period of study

Method of measurement

Pars Azmun Kit

4

Description

HDL cholestrol

Timepoint

Baseline, 8 weeks after baseline, the end of the washout period , 8 weeks after the start of the second period of study

Method of measurement

Pars Azmun Kit

5

Description

blood pressure

Timepoint

Baseline, 4 weeks after baseline, 8 weeks after baseline, the end of the washout period, 4 weeks after the start of the second period of study , 8 weeks after the start of the second period of study

Method of measurement

mercury manometer

Intervention groups

1

Description

The intervention group consume Astragalus honey (50 grams per day) three times between meals for 8 weeks.After wash out period(4 weeks) , they will not consume honey(8 weeks.)

Category

Other

2

Description

Control group do not consume honey.After wash out period, they will consume honey for 8 weeks.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahmad Nader Kazemi clinic

Full name of responsible person

Dr. Mohamad Marzoghi

Street address

Valiasr square, Shiraz

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Shiraz University of Medical Science

Full name of responsible person

Dr Seyed Basir Hashemi

Street address

Central Building of Shiraz University of Medical Science , Zand Ave

City

Shiraz

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 Shiraz University of Medical Science

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

Shiraz University of Medical Science

Full name of responsible person

Dr Masoume Akhlaghi

Position

PhD in Nutrition Sciences/Faculty member

Other areas of specialty/work

Street address

Faculty of Food Science and Nutrition, Razi Blvd

City

Shiraz

Postal code

Phone

+98 71 3725 1001

Fax

Email

msm.akhlaghi@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz University of Medical Science

Full name of responsible person

Dr Masoume Akhlaghi

Position

PhD in Nutrition Sciences/Faculty member

Other areas of specialty/work

Street address

Faculty of Food Science and Nutrition, Razi Blvd

City

Shiraz

Postal code

Phone

+98 71 3725 1001

Fax

Email

msm.akhlaghi@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Shiraz University of Medical Science^w

Full name of responsible person

Fateme sadeghi

Position

Postgraduate student

Other areas of specialty/work

Street address

Faculty of Food Science and Nutrition, Razi Blvd

City

Shiraz

Postal code

Phone

+98 71 3725 1001

Fax

Email

f.sadeghi6821@yahoo.com

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