Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Effect of single dose of royal jelly on serum glucose, insulin and C-peptide level in type 2 diabetic patients.

Protocol summary

Summary

This study aimed to investigate the effect of a single dose of royal jelly on serum glucose, insulin and c-peptide in type 2 diabetic patients. Forty patients with type 2 diabetes will be randomly divided in 2 groups including 20 patients in the intervention group and 20 patients in the control group. After explaining the study procedure for the patients and informed consent, in the morning after an 8-hour fasting blood sample will be taken. The intervention group will be received 10 g royal jelly, however the control group will be received 10 g paraffin. One and two hours after administration, blood samples will be obtained. Serum glucose, insulin and C-peptide in each sample will be measured.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201306049626N2**
Registration date: **2013-06-13, 1392/03/23**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2013-06-13, 1392/03/23

Registrant information

Name

Majid Mobaseri

Name of organization / entity

Tabriz university of medical science

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

Bone disease health center, Tabriz University of Medical Sciences

Expected recruitment start date

2013-06-22, 1392/04/01

Expected recruitment end date

2013-12-21, 1392/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of single dose of royal jelly on serum glucose, insulin and C-peptide level in type 2 diabetic patients.

Public title

Effect of royal jelly on serum glucose and insulin in type 2 diabetic patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: having type 2 diabetes; age 30-65 years old; treated with glucose-lowering drugs. Exclusion criteria: insulin therapy; history of allergy to honey or bee products; pregnancy; lactation; renal failure; a history of any type of metabolic disease other than type 2 diabetes such as proved thyroid disease.

Age

From **25 years** old to **65 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
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tabriz University of Medical Sciences Ethics Committee
Street address
Faculty of Medicine- Daneshgah Ave. Tabriz
City
Tabriz
Postal code
Approval date
2013-05-13, 1392/02/23
Ethics committee reference number
9235

Health conditions studied

1

Description of health condition studied
Type 2 diabetes
ICD-10 code
E11
ICD-10 code description
Endocrine, nutritional and metabolic diseases

Primary outcomes

1

Description
Plasma glucose levels
Timepoint
Before and one hour and two hour after intervention
Method of measurement
Paraclinical

2

Description
Plasma insulin levels
Timepoint
Before and one hour and two hour after intervention
Method of measurement
Paraclinical

3

Description
Plasma C-peptide levels
Timepoint
Before and one hour and two hour after intervention
Method of measurement
Paraclinical

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group:10 g royal jelly in morning after an 8-hour fasting
Category
Treatment - Drugs

2

Description
Placebo group: 10 g placebo tablet (containing edible paraffin) jelly in morning after an 8-hour fasting
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Reza hospital
Full name of responsible person
Dr. Majid Mobaseri
Street address
Imam Reza hospital- Tabriz
City
Tabriz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research deputy of Tabriz University of Medical Sciences

Full name of responsible person
Dr. Shakuri Kazem
Street address
Golgasht Street ,Tabriz University of Medical Sciences ,central building II,third floor
City
Tabriz

Grant name

Grant code / Reference number

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

Title of funding source
Research deputy of Tabriz 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
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Person responsible for updating data

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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