

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation of the effect of silymarin on blood sugar profile(FBS and 2hpp) and HbA1C in patients with type 2 diabetes mellitus

Protocol summary

Study aim

Evaluation of the effect of silymarin on Blood glucose profiles(FBS ,2hpp) and HbA1C in patients with type 2 diabetes mellitus referring to endocrine clinic of Imam khomeini hospital Urmia

Design

In this study ,50 eligible patients with type 2 diabetes mellitus referred in the endocrinology clinic of Imam khomeini Hospital of Urmia are chosen. Patients will be randomly assigned into two groups of control and intervention ,each patient will have a special code.

Settings and conduct

Patients will be randomly assigned to either intervention or control group after obtaining informed consent. The control group will receive routine oral antidiabetic drugs and placebo and the intervention group will receive common oral antidiabetic drugs and 140 mg silymarin twice a day for 12 days. The researcher and the patients will not be informed about the allocation of patients to the intervention or control groups (double blind). Patients will be evaluated at the start of the study and the second month for FBS,2hpp and HbA1c and the results will be recorded on the relevant chart.

Participants/Inclusion and exclusion criteria

Inclusion criteria:age between 30_65;diabetes diagnosis according to WHO standards(FBS>126or2hpp>200orHbA1c>9%);having fasting blood sugar less than 250 mg/dl;history of diabetes mellitus more than one year;having informed consent. Exclusion criteria:insulin therapy ,therapy;pregnancy and lactation;having diseases of autoimmune and cancer;taking medication that interfere with plasma levels of blood sugar;smoking;hospitalization or undergoing surgery

Intervention groups

The study will be conducted with the participation of two groups of patients with type 2 diabetes mellitus.The intervention group,which will receive the anti_diabetic treatment with silymarin and the control group,will

receive a common treatment with placebo

Main outcome variables

Blood glucose profiles

General information

Reason for update

Acronym

UGS

IRCT registration information

IRCT registration number: **IRCT20170814035697N5**

Registration date: **2019-12-16, 1398/09/25**

Registration timing: **retrospective**

Last update: **2019-12-16, 1398/09/25**

Update count: **0**

Registration date

2019-12-16, 1398/09/25

Registrant information

Name

Hamdolah Sharifi

Name of organization / entity

Urmia University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 44 3275 4992

Email address

sharifi.h@umsu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-06, 1398/01/17

Expected recruitment end date

2019-07-21, 1398/04/30

Actual recruitment start date

empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation of the effect of silymarin on blood sugar profile(FBSand 2hpp) and HbA1C in patients with type 2 diabetes mellitus

Public title
Evaluation of the effect of silymarin on blood sugar profile(FBSand 2hpp) and HbA1C in patients with type 2 diabetes mellitus

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
age between 30-65 diagnose of diabetics according to WHO criteria FBS>126mg/dl or 2HP>200mg/dl or HbA1c>9% fasting blood glucose less thanmg/dL 250 A history of diabetes is more than 1 year old Conscious informed consent to participate in the study

Exclusion criteria:
Insulin therapy Pregnancy and lactation catching for autoimmune diseases and cancer Taking drugs that interfere with the level of plasma glucose smoking Hospitalized or undergoing surgery

Age
From **30 years** old to **65 years** old

Gender
Both

Phase
1-2

Groups that have been masked

- Participant
- Investigator

Sample size
Target sample size: **50**

Randomization (investigator's opinion)
Randomized

Randomization description
The randomization method is that 50 letters A and 50 B characters are poured into a bag, and if a sample is chosen, a number is randomly taken out of the bag. If the letter A is the group receiving the silymarin, and if the letter B The control group was identified

Blinding (investigator's opinion)
Double blinded

Blinding description
In this study, the patient, the person who performed the project, the relevant guidance teachers, and the patient's blind physician were kept so that none of them is aware of the type of drug (silymarin or placebo) by the patient.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Urmia University of Medical Sciences

Street address

Urmia University of Medical Sciences;Resalat Ave;Jahad Blvd;Urmia;West Azerbaijan Province;Iran

City

urmia

Province

West Azarbaijan

Postal code

5714783734

Approval date

2018-12-12, 1397/09/21

Ethics committee reference number

IR.UMSU.REC.1397.331

Health conditions studied

1

Description of health condition studied

Blood glucose profiles in patients with type 2 diabetes

ICD-10 code

R73

ICD-10 code description

Elevated blood glucose level

Primary outcomes

1

Description

Blood glucose profiles

Timepoint

Before and after of treatment

Method of measurement

Lab data

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: routin treatment +livergol tablets with a dose of 140 mg ,BID ,daily for patients with type 2 DM

Category

Treatment - Drugs

2

Description

Control group: routin anti diabetes treatment with placebo

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Urmia Imam Khomeini Hospital

Full name of responsible person

Hamdolah Sharifi

Street address

Imam Khomeini hospital; Ershad Ave; Modarres Blvd; Urmia

City

Urmia

Province

West Azarbaijan

Postal code

571478334

Phone

+98 44 3346 9931

Email

sharifi.h@umsu.ac.ir

Web page address

http://www.umsu.ac.ir/

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Dr. Iraj Mohebbi

Street address

Emergency Alley, Resalat blvd

City

Urmia

Province

West Azarbaijan

Postal code

5714783734

Phone

+98 44 2332 9748

Email

mohebbi_iraj@yahoo.co.uk

Grant name

Grant code / Reference number

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

No

Title of funding source

Urmia 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

Urmia University of Medical Sciences

Full name of responsible person

Hamdolah Sharifi

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Department of Pharmacology, Faculty of Pharmacy, Urmia University of Medical Sciences, Urmia

City

Urmia

Province

West Azarbaijan

Postal code

5714783734

Phone

+98 44 3275 4992

Fax

+98 44 3275 4990

Email

sharifi.h@umsu.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Dr. Hamdolah Sharifi

Position

Assistant Professor(MD- Ph-D)

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Department of Pharmacology, Faculty of Pharmacy, Urmia University of Medical Sciences, Urmia

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Web page address

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+98 44 3275 4992

Fax

Email

sharifi.h@umsu.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Dr. Hamdolah Sharifi

Position

Assistant Professor(MD- Ph-D)

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Department of Pharmacology, Faculty of Pharmacy,
Urmia University of Medical Sciences, Urmia

City

Urmia

Province

West Azarbaijan

Postal code

5714783734

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