

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jun 2026

Effect of nutritional education through Internal Messenger on Blood glucose control, fat indicators and quality of life in patients with type 2 diabetes

Protocol summary

Study aim

Determining the Effect of Nutrition Education on the Control of Blood Glucose, Fat Indicators and Quality of Life in Patients with Type 2 Diabetes

Design

The two intervention and control groups are matched and randomly divided into two groups. The intervention group will have 45 days training on blood glucose control, fat and diet, and physical activity.

Settings and conduct

Place of study of Diabetes Research Center of Ahvaz Jundishapour University

Participants/Inclusion and exclusion criteria

Entry criteria: Internet access and Smartphone, reading and writing literacy, age (60-30 years). Exit criteria: failure to complete the questionnaire and control blood glucose, mental disorders, hospitalization due to other health problems, kidney disease and chronic complications of the disease

Intervention groups

The intervention and control groups completed a quality of life questionnaire. On a specified day, referring to the Laboratory of the Center for Research Without Cost, all 3cc blood samples were collected for fasting blood glucose, HBV1C, and blood lipids (triglyceride and cholesterol). As well as the weight of the patients, along with the test results, in the patients' questionnaires. After analyzing the received information, the questionnaire of patients in the case group was informed with the informed consent of the member of the internal messenger group. Training materials are provided to participants for 45 days each week from Saturday to Thursday, based on a regular program using pictures, videos and posters. In the afternoon, the patient's questions were answered for 2 hours. In the mean time, no intervention is provided for the control group. After 45 days after the last training session, all of the patients

were tested, weight recorded, quality of life questionnaire completed.

Main outcome variables

Glucose control, weight, fat and quality of life

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20121229011923N4**

Registration date: **2019-01-21, 1397/11/01**

Registration timing: **registered_while_recruiting**

Last update: **2019-01-21, 1397/11/01**

Update count: **0**

Registration date

2019-01-21, 1397/11/01

Registrant information

Name

Akram Hematipour

Name of organization / entity

Ahvaz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

hematipour.a@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-21, 1397/11/01

Expected recruitment end date

2019-04-21, 1398/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of nutritional education through Internal Messenger on Blood glucose control, fat indicators and quality of life in patients with type 2 diabetes

Public title

Effect of nutritional education through Internal Messenger on Blood glucose control, fat indicators and quality of life in patients with type 2 diabetes

Purpose

Supportive

Inclusion/Exclusion criteria**Inclusion criteria:**

Internet access and Smartphone Literacy reading and writing Having a benchmark of age (60-30 years).

Exclusion criteria:

Failure to complete the questionnaire Mental disorders
Lack of blood glucose control Hospitalization due to other health problems Kidney disease and chronic complications of diseases

AgeFrom **30 years** old to **60 years** old**Gender**

Both

Phase

N/A

Groups that have been masked*No information***Sample size**Target sample size: **90****Randomization (investigator's opinion)**

Randomized

Randomization description

They are matched in pairs and then divided randomly into two groups of intervention and control

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Ahvaz University of Medical

Sciences

Street address

Jundishapour University of Ahvaz, Esfand Alley,
Golestan Blvd.

City

Ahvaz

Province

Khouzestan

Postal code

15794-61357

Approval date

2018-12-29, 1397/10/08

Ethics committee reference number

IR.AJUMS.REC.1397.725

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

Type 2 diabetes

ICD-10 code

E11

ICD-10 code description

Type 2 diabetes mellitus

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

Blood glucose

Timepoint

Before the study began and three months later

Method of measurement

blood test

2**Description**

Cholesterol and triglycerides

Timepoint

Before the study began and three months later

Method of measurement

blood test

3**Description**

Weight

Timepoint

Before the study began and three months later

Method of measurement

digital scale

4**Description**

Quality of Life

Timepoint

Before the study began and three months later

Method of measurement

Secondary outcomes

empty

Intervention groups

1

Description

"Intervention group": Patients in the intervention group completed the quality of life questionnaire(SF36) and tested fasting blood glucose, HBV1C and blood lipids (triglyceride and cholesterol) and their weights with informed consent of the members of the internal messenger group. Training sessions were completed within 45 days The week is from Saturday to Thursday, based on a regular schedule using pictures, videos, and posters to reach and maintain normal blood glucose levels and other dietary considerations. 45 days after the last intervention session, the quality of life questionnaire and weight of patients were also checked again.

Category

Lifestyle

2

Description

Control group: During this period, the control group received routine care without any intervention. And the quality of life questionnaire, and blood glucose and lipid tests and patient weight are also checked

Category

Lifestyle

Recruitment centers

1

Recruitment center

Name of recruitment center

Diabetes Research Center of Ahvaz Jundishapour University

Full name of responsible person

Shahram Baraz

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Jundishapour University of Ahvaz, Esfand Alley, Golestan Blvd.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Badavi

Street address

Jundishapour University of Ahvaz, Esfand Alley, Golestan Blvd.

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itc@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

Akram Hemmatipour

Position

Nurse

Latest degree

Master

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Shahram Baraz

Position

University professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

Nurse

Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

I do not know

When the data will become available and for how long

I do not know

To whom data/document is available

I do not know

Under which criteria data/document could be used

I do not know

From where data/document is obtainable

I do not know

What processes are involved for a request to access data/document

I do not know

Comments