

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 2026

### The Relationship of Physical Selected Activity and Food Consumption Pattern on UCP3 polymorphism 55/CT Gene in People with Morbid Obesity After Bariatric Surgery

#### Protocol summary

##### Study aim

Correlation of selected physical activity and food consumption pattern with weight changes, with changes in body mass index (BMI) with C and T allele frequency and with UCP3 gene polymorphism in morbidly obese people after bariatric surgery

##### Design

The statistical population of this research includes 30 people who undergo bariatric surgery in Shiraz Hospital with the following conditions: 1- having morbid obesity, i.e. BMI =  $5 \pm 35$  kg/m<sup>2</sup>- 2- performing bariatric surgery in Mother and Child Hospital or Hafez Shiraz 3- performing activities Physical fitness and compliance with the food consumption pattern prescribed by the surgeon for three months Three months after the bariatric operation and the determination of the new body mass index of the patients, the people who did not undergo surgery are selected as the control group.

##### Settings and conduct

According to the type of target, is placed in the ranks of experimental and applied research, in such a way that the effect of the independent variable (physical activity and food consumption pattern) on the dependent variable (CT/55 UCP3 gene polymorphism) is evaluated. becomes The study included peripheral blood samples, height and weight measurement and BMI calculation before the operation and three months after the bariatric operation, so the current research plan includes a pre-test and a post-test.

##### Participants/Inclusion and exclusion criteria

Obese people who are candidates for bariatric surgery

##### Intervention groups

Operated obese people: the main group People who did bariatric surgery within the new range of body mass people: control group

##### Main outcome variables

Detection of obesity-related phenotypes

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20230225057536N1**

Registration date: **2023-07-20, 1402/04/29**

Registration timing: **retrospective**

Last update: **2023-07-20, 1402/04/29**

Update count: **0**

##### Registration date

2023-07-20, 1402/04/29

##### Registrant information

##### Name

Mahtab matin

##### Name of organization / entity

Zand Shiraz Institute of Higher Education

##### Country

Iran (Islamic Republic of)

##### Phone

+98 71 3650 9510

##### Email address

andiab1393@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-04-04, 1402/01/15

##### Expected recruitment end date

2023-05-05, 1402/02/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

### Scientific title

The Relationship of Physical Selected Activity and Food Consumption Pattern on UCP3 polymorphism 55/CT Gene in People with Morbid Obesity AfterBariatric Surgery

### Public title

The Relationship of Physical Selected Activity and Food Consumption Pattern on UCP3 polymorphism 55/CT Gene in People with Morbid Obesity

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Morbid obesity Bariarric surgery

#### Exclusion criteria:

special disease

### Age

No age limit

### Gender

Both

### Phase

N/A

### Groups that have been masked

No information

### Sample size

Target sample size: 30

### Randomization (investigator's opinion)

N/A

### Randomization description

### Blinding (investigator's opinion)

Not blinded

### Blinding description

### Placebo

Not used

### Assignment

Single

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Shiraz University of Rehabilitation Sciences

##### Street address

Faculty of Rehabilitation Sciences,1th Abivardi St.,Chamran Blvd.

##### City

Shiraz

##### Province

Fars

##### Postal code

##### Approval date

2021-08-08, 1400/05/17

## Ethics committee reference number

IR.SUMS.REHAB.REC1400.17

## Health conditions studied

### 1

#### Description of health condition studied

obesity

#### ICD-10 code

E66

#### ICD-10 code description

Overweight and obesity

## Primary outcomes

### 1

#### Description

BMI,T&C allele

#### Timepoint

After bariatric surgery

#### Method of measurement

Scale, Amplification Refractory Mutation System(PCR-ARMS)

## Secondary outcomes

### 1

#### Description

Weight

#### Timepoint

3 month after surgery

#### Method of measurement

Digital scale

## Intervention groups

### 1

#### Description

Control group: People who have not had surgery

#### Category

N/A

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Ghadir Mother and Child Superspeciality Hospital, Shiraz

##### Full name of responsible person

Dr. Masood Amini

##### Street address

Mother and Child Hospital ,at the beginning of Golshan, Above the Koran Gate

##### City

shiraz

**Province**

Fars

**Postal code****Phone**

+98 71 3227 9701

**Email**

motherhosp@gmail.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Zand Institute of Higher Education

**Full name of responsible person**

Homa Sheikhani Shahin

**Street address**

Zand Institute of Higher Education,12 Alley,At the end of Hammet South Blvd.

**City**

Shiraz

**Province**

Fars

**Postal code**

73489-71887

**Phone**

+98 71 3632 1041

**Email**

hsheikhani@yahoo.com

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Zand Institute of Higher Education

**Proportion provided by this source**

100

**Public or private sector**

Private

**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**

Zand Institute of Higher Education

**Full name of responsible person**

Homa Sheikhani Shahin

**Position**

Consultant

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Physiology

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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**

No - There is not a plan to make this available

### **Clinical Study Report**

Yes - There is a plan to make this available

### **Analytic Code**

Not applicable

### **Data Dictionary**

Not applicable

### **Title and more details about the data/document**

Finding polymorphisms associated with obesity and overweight

### **When the data will become available and for how long**

3 month after surgery

### **To whom data/document is available**

For researchers working in academic and scientific institutions

### **Under which criteria data/document could be used**

Data is only permitted for use in statistical analyses

### **From where data/document is obtainable**

Mahtab Matin

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

It will be emailed as soon as the request is made (it may take up to a week)

### **Comments**