

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 May 2026

### The effect of fructose on hyperphosphatemia in hemodialysis patients

#### Protocol summary

##### Summary

The aim of the present study was to evaluate the effect of fructose on the hyperphosphatemia in hemodialysis patients. 30 hemodialysis patients were enrolled in before and after randomized clinical trial. This patient's blood phosphate was above 5.5 mg/dl for three month. The inclusion criteria were age more than 18 years; Able to cooperation; Constant consumption of fruit and fructose containing foods; Tolerance to drug; Have passed more than six months from diagnosis of chronic renal failure and to be at 4,5 stages of disease. All Patients in the intervention group (n=30) received fructose for two month (15 gr fructose daily). Other biochemical factors that were evaluated before and after intervention were TG, LDL, HDL, PTH, Na, K, Ca, HG, WBC, and platelet. Patients did not complete study were excluded. Data were analyzed by using SPSS16 and paired T test.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201307272017N15**

Registration date: **2013-12-02, 1392/09/11**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2013-12-02, 1392/09/11

##### Registrant information

##### Name

Alireza Ostadrahimi

##### Name of organization / entity

Tabriz University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 1335 7580

##### Email address

ostadrahimi@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Tabriz university of medical science

##### Expected recruitment start date

2013-10-02, 1392/07/10

##### Expected recruitment end date

2013-12-06, 1392/09/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of fructose on hyperphosphatemia in hemodialysis patients

##### Public title

Fructose effect on phosphate absorption from the gastrointestinal tract

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: More than six months have passed from diagnosis of Chronic Renal Failure and to be at 4,5 stages of disease, >18 years old, Satisfaction and cooperation of patient, Constant consumption of fruit and fructose containing foods, Tolerance to drug and side effects.

##### Age

From **18 years** old to **75 years** old

##### 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 Tabriz University of Medical Sciences

##### Street address

Golgasht street - Medical college

##### City

Tabriz

##### Postal code

5166614711

#### Approval date

2013-09-30, 1392/07/08

#### Ethics committee reference number

92101

## Health conditions studied

### 1

#### Description of health condition studied

Chronic Kidney Failure

#### ICD-10 code

N18.4, N18

#### ICD-10 code description

Chronic Kidney Failure

## Primary outcomes

### 1

#### Description

Phosphate

#### Timepoint

Before and two months after the beginning of trial

#### Method of measurement

Laboratory and mgr/dl

## Secondary outcomes

### 1

#### Description

Leucocytes

#### Timepoint

Before and two months after of beginning of trial

#### Method of measurement

Laboratory and Numerical

### 2

#### Description

HDL

#### Timepoint

Before and two months after the beginning of trial

#### Method of measurement

Laboratory and mgr/dl

### 3

#### Description

Triglycerides

#### Timepoint

Before and two months after the beginning of trial

#### Method of measurement

Laboratory and mgr/dl

### 4

#### Description

Na

#### Timepoint

Before and two months after the beginning of trial

#### Method of measurement

Laboratory and mgr/dl

### 5

#### Description

Calcium

#### Timepoint

Before and two months after the beginning of trial

#### Method of measurement

Laboratory and mgr/dl

### 6

#### Description

K

#### Timepoint

Before and after two months of beginning of trial

#### Method of measurement

Laboratory and mgr/dl

### 7

#### Description

PTH

#### Timepoint

Before and after two months of beginning of trial

#### Method of measurement

Laboratory and by kit

**8**

**Description**

LDL

**Timepoint**

Before and after two months of beginning of trial

**Method of measurement**

Laboratory and mgr/dl

**9**

**Description**

Cholesterol

**Timepoint**

Before and after two months of beginning of trial

**Method of measurement**

Laboratory and mgr/dl

**10**

**Description**

Platelet

**Timepoint**

Before and after two months of beginning of trial

**Method of measurement**

Laboratory and Numerical

**11**

**Description**

Hemoglobin

**Timepoint**

Before and after two months of beginning of trial

**Method of measurement**

Laboratory and Numerical

**Intervention groups**

**1**

**Description**

Intervention group: 15 grams fructose daily for two months

**Category**

Treatment - Drugs

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Tabriz university of medical sciences

**Full name of responsible person**

Hamid Tayebikhosroshahi

**Street address**

Golgasht street - Emam reza hosbital - Hemodialysis department

**City**

Tabriz

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Vice Chancellor for research of Tabriz University of Medical Sciences

**Full name of responsible person**

Ali Meshkini

**Street address**

Golgasht street- Medical college

**City**

Tabriz

**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 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**

Tabriz university of medical sciences

**Full name of responsible person**

Hamid Tayebikhosroshahi

**Position**

Nephrologist - Manager of hemodialysis department

**Other areas of specialty/work**

**Street address**

Golgasht street- Emam reza hospital - Hemodialysis department

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**Postal code****Phone**

+98 45 1551 7963

**Fax****Email****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***Person responsible for updating data****Contact****Name of organization / entity**

Tabriz university of medical sciences

**Full name of responsible person**

Siamak Nooshirvani

**Position**