

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Effects of Crataegus on cardiovascular parameters of patients undergoing coronary artery bypass graft

Protocol summary

Summary

Crataegus effects on cardiovascular determine the index coronary artery bypass surgery. The sample size in each group 12 and a total of 24 people will be, double-blind study is done. In phase two clinical trial study. During the study, patients will be recorded incidence of myocardial ischemia and any arrhythmia. In the end, patients were evaluated in terms of variables such as blood pressure, exercise tolerance test, blood levels of C-reactive protein (crataegus to assess the effects of oxidative stress) and blood Malondialdehyde level (to assess effects on inflammatory responses crataegus) is evaluated and these variables before the start of the study. At the end of the study as well as laboratory parameters such as hemoglobin, hematocrit, CBC, liver enzymes, bilirubin, cholesterol, triglycerides, erythrocyte sedimentation was measured and compared with blood levels in the first day of the study. Participants will review the conditions of entry and non-entry. Minimum age 40 and maximum age 80 years, comorbidity of chronic diseases such as kidney, liver, diabetes and COPD; In the intervention group, on the third-day surgery crataegus 30 oral drops three times a day for a month you desire and And the control group on the third day surgery to the mix 30 drops of placebo three times a day for a month daily. Use Crataegus to help improve cardiovascular patients undergoing coronary artery bypass surgery and lower blood pressure and reduce blood fat used. Laboratory parameters such as hemoglobin, thrombocytes, liver enzymes, bilirubin, cholesterol, erythrocyte remain in the normal range.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016122025772N5**

Registration date: **2017-02-12, 1395/11/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-12, 1395/11/24

Registrant information

Name

Seyyed Abbas Zojaji

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3711 2717

Email address

zojajia881@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research, Mashhad University of Medical Science

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2016-10-22, 1395/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of Crataegus on cardiovascular parameters of patients undergoing coronary artery bypass graft

Public title

Crataegus effect on patients undergoing coronary artery bypass surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: LVEF less than 30%; The minimum age of 40 and maximum age 80 years; techniques Off-pump coronary artery bypass grafting is a method. Exclusion criteria: require any further surgery; comorbidity to valvular disease such as kidney, liver, diabetes and COPD; The risk of serious mental illness; alcohol and drug addiction; BMI> ...

Age

From **40 years** old to **80 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **12**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Mechanical complication of coronary artery bypass and valve grafts

Primary outcomes

1

Description

Blood pressure

Timepoint

Before intervention, One month after intervention

Method of measurement

Mm Mercury

2

Description

Left ventricular ejection fraction

Timepoint

Before intervention, one month after intervention

Method of measurement

Percent

3

Description

Exercise tolerance test

Timepoint

Before intervention, one month after intervention

Method of measurement

Minutes

4

Description

Malondialdehyde

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

5

Description

C-reactive protein

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

6

Description

Total cholesterol

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

7

Description

LDL

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Mashhad University of Medical Science

Street address

Mashhad Medical School, Mashhad University Pardis

City

Mashhad

Postal code

Approval date

2014-07-26, 1393/05/04

Ethics committee reference number

IR.MUMS.REC.1393.135

Health conditions studied

1

Description of health condition studied

coronary artery bypass graft

ICD-10 code

T82

ICD-10 code description

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

8**Description**

VLDL

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

9**Description**

HDL

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

10**Description**

Triglyceride

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

11**Description**

Fasting blood sugar

Timepoint

Before intervention,One month after intervention

Method of measurement

Milli grams per deciliter

12**Description**

ALT

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

13**Description**

AST

Timepoint

Before intervention, one month after intervention

Method of measurement

Per liter

14**Description**

Urea

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

15**Description**

Creatinine

Timepoint

Before intervention, one month after intervention

Method of measurement

Milli grams per deciliter

16**Description**

Sodium

Timepoint

Before intervention, one month after intervention

Method of measurement

mEq

17**Description**

Potassium

Timepoint

Before intervention,One month after intervention

Method of measurement

mEq

18**Description**

Hemoglobin

Timepoint

Before intervention,One month after intervention

Method of measurement

Milli grams per deciliter

19**Description**

Hematocrit

Timepoint

Before intervention,One month after intervention

Method of measurement

Percent

20**Description**

White Blood cells

Timepoint

Before intervention,One month after intervention

Method of measurement

The number of micro liters

21**Description**

Red Blood cells

Timepoint

Before intervention,One month after intervention

Method of measurement

The number of micro liters

22

Description

Bilirubin

Timepoint

Before intervention, One month after intervention

Method of measurement

Milligrams per deciliter

23

Description

Sedimentation Erythrocytes

Timepoint

Before intervention, One month after intervention

Method of measurement

Mili meter

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: on the third-day after surgery 30 drops of crataegus, three times a day for one month daily.

Category

Treatment - Drugs

2

Description

Control group: on the third day after surgery 30 drops of placebo three times a day for one month daily.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital Special Clinic

Full name of responsible person

Seyyed Abbas Zojaji

Street address

Emam Reza Hospital, Emam Reza Square

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research, Mashhad University of Medical Science

Full name of responsible person

Mohsen Tafaghodi

Street address

Vice chancellor for Research of Mashhad University of Medical Science, Ghoreyshi Building, Daneshgah Avenue

City

Mashhad

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, Mashhad University of Medical Science

Proportion provided by this source

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

2

Sponsor

Name of organization / entity

Exir Teb Zakaria company

Full name of responsible person

Seyyed Abbas Zojaji

Street address

Pharmaceutical Technology Incubator of Mashhad university of medical science, Buali square

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Exir Teb Zakaria company

Proportion provided by this source

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

Exir Teb Zakaria Company

Full name of responsible person

Seyyed Abbas Zojaji

Position

ph.D of Pharmacology/CEO

Other areas of specialty/work**Street address**

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Postal code**Phone**

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Fax**Email**

exirtebzakaria@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhsad Medical School, Pharmacological Research
Center of Medicinal Plants

Full name of responsible person

Ahmad Ghorbani

Position

Assistant Professor/ Physiology Ph.D

Other areas of specialty/work**Street address**

Pharmacological Research Center of Medicinal Plants,
Mashhad Medical School, Mashhad University Pardis

City

Mashhad

Postal code**Phone**

+98 51 3711 2717

Fax**Email**

horbania@mums.ac.ir

Web page address

Person responsible for updating data

Contact

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