

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The protective effects of omega-3 intake on liver injury in patients with acute myocardial infarction after reperfusion

#### Protocol summary

##### Summary

A total of 90 patients, without age limit with acute myocardial infarction in coronary care unit admission Gonabad city 22 Bahman hospital will be enrolled in this study. Patients will be randomized into two groups 1- Intervention: receiving 1 gram per day of omega-3 and 2- Control: receiving placebo for the same amount. The intervention will be start following the diagnose of MI. In addition to routine medical procedures involving the measurement of plasma troponin I and CK-MB as a myocardial injury, In all patients on admission, 24 and 48 hours later, at discharge (5 days after admission) and 30, 60 and 90 days later, ALT liver enzymes will be measured. Demographic data from the questionnaires will be recorded and information of cardiac function including the infarct site, its size, date of acceptance after the first symptoms, systolic pressure, diastolic pressure, echocardiographic data will be recorded for each sample. Patients with a history of liver disease, cardiogenic shock, heart failure, history of stroke in the last 6 months will be excluded. Omega-3 oils can be used in the prevention of liver disease caused by the myocardial infarction If the protective effect of omega 3 on liver injury induced by myocardial infarction is confirmed.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013060213550N1**

Registration date: **2014-07-05, 1393/04/14**

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

Last update:

Update count: **0**

##### Registration date

2014-07-05, 1393/04/14

#### Registrant information

##### Name

Maryam Moghimian

##### Name of organization / entity

Gonabad University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 53 3722 5027

##### Email address

moghimian.m@gmu.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Vice Chancellor for Research of Gonabad University of Medical Sciences

#### Expected recruitment start date

2013-07-11, 1392/04/20

#### Expected recruitment end date

2014-07-11, 1393/04/20

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The protective effects of omega-3 intake on liver injury in patients with acute myocardial infarction after reperfusion

#### Public title

Effect of omega3 oil on myocardial infarction induced liver injury

#### Purpose

Prevention

#### Inclusion/Exclusion criteria

Inclusion Criteria: patients with myocardial infarction accepted in ccu Exclusion Criteria: Patients with a history

of liver disease, cardiogenic shock, heart failure and History of stroke within the last 6 months Will be excluded.

### **Age**

No age limit

### **Gender**

Both

### **Phase**

N/A

### **Groups that have been masked**

No information

### **Sample size**

Target sample size: 90

### **Randomization (investigator's opinion)**

Not randomized

### **Randomization description**

### **Blinding (investigator's opinion)**

Not blinded

### **Blinding description**

### **Placebo**

Used

### **Assignment**

Parallel

### **Other design features**

## **Secondary Ids**

empty

## **Ethics committees**

### **1**

#### **Ethics committee**

##### **Name of ethics committee**

Ethics Committee of Gonabad University of Medical Sciences

##### **Street address**

Gonabad University of Medical Sciences, Next to the Asian Road, Gonabad, Khorasan Razavi, Iran

##### **City**

Gonabad

##### **Postal code**

#### **Approval date**

2013-05-28, 1392/03/07

#### **Ethics committee reference number**

1025/92/ص

## **Health conditions studied**

### **1**

#### **Description of health condition studied**

myocardial infarction

#### **ICD-10 code**

IX

#### **ICD-10 code description**

Diseases of the circulatory system

## **Primary outcomes**

### **1**

#### **Description**

liver injury

#### **Timepoint**

Admission every day and then a week, then a month or two later

#### **Method of measurement**

Measurement of ALT

## **Secondary outcomes**

empty

## **Intervention groups**

### **1**

#### **Description**

The Intervention group will receive 1 gram of Omega-3 capsules per day orally for 3 months

#### **Category**

Treatment - Drugs

### **2**

#### **Description**

The Control group will receive 1 gram of Placebo capsules per day orally for 3 months

#### **Category**

Treatment - Drugs

## **Recruitment centers**

### **1**

#### **Recruitment center**

##### **Name of recruitment center**

22 Bahman Hospital

##### **Full name of responsible person**

##### **Street address**

##### **City**

Gonabad

## **Sponsors / Funding sources**

### **1**

#### **Sponsor**

##### **Name of organization / entity**

Vice Chancellor for research of Gonabad University of Medical Sciences

##### **Full name of responsible person**

Maryam Moghimian

##### **Street address**

Gonabad University of Medical Sciences, Next to the Asian Road, Gonabad, Khorasan Razavi, Iran

##### **City**

Gonabad

#### **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 Gonabad 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**

Gonabad University of Medical Sciences

**Full name of responsible person**

Maryam Moghimian

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Assistant Professor

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**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*