

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Comparing the effect of fish oil on the occurrence of atrial fibrillation with placebo (olive oil) after coronary artery bypass graft surgery in patients who are undergoing CABG surgery in the rajaei heart center in 2014, a randomized clinical trial

Protocol summary

Summary

This study is a randomized clinical trial in 392 patients scheduled for CABG surgery who referred to heart surgery clinic. After entering the study, using a randomized block, patients randomly entered into control and trial groups. 2000mg fish oil daily was given to the patients, twice a day (1 gr fish oil capsules each meal), containing 200 mg DHA and 300 mg EPA to intervention group and 2000 mg olive oil twice a day to placebo group. Intervention will begin at least 5 day before surgery and will continue for at least a week after surgery. Demographic data and other variables studied will be collected entering the study and during the study. In the open heart surgery ICU the patients will be monitored 24 hours. If AF occurs, start time and time of occurrence will be recorded. If patients have palpitations, ECG will be taken and if AF rhythm exists, will be recorded. Variables will be analyzed separately in the trial and placebo groups and results will be reported based on the information obtained.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013070713886N1**
Registration date: **2014-08-30, 1393/06/08**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-08-30, 1393/06/08

Registrant information

Name

Ali Vasheghani Farahani

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2392 2189

Email address

avasheghani@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2014-05-22, 1393/03/01

Expected recruitment end date

2014-08-23, 1393/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of fish oil on the occurrence of atrial fibrillation with placebo (olive oil) after coronary artery bypass graft surgery in patients who are undergoing CABG surgery in the rajaei heart center in 2014, a randomized clinical trial

Public title

Comparing the effect of fish oil on the occurrence of atrial fibrillation with placebo (olive oil) after coronary artery bypass graft surgery in patients who are undergoing CABG surgery in the rajaei heart center in

2013, a randomized clinical trial

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : All patients over 18 years old who are candidate for CABG surgery. Exclusion criteria: previous diagnosis of AF or atrial flutter; use of anti arrhythmic drugs (class 1&3) over the last 3 months; emergency surgery; MI over the last 2 weeks; emergency reoperation; post operative pacemaker placement; CABG and valve surgery; any conditions that can be effective on the digestion or absorption of food fatty acids; withdrew patients from continuing to participate in the study.

Age

From **18 years** old to **99 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **392**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences

Street address

Tehran University of Medical Sciences, Taleghani st., Ghods st., Enghelab square, Tehran

City

Tehran

Postal code

1417653761

Approval date

2014-03-01, 1392/12/10

Ethics committee reference number

105180

Health conditions studied

1

Description of health condition studied

Post coronary artery bypass graft surgery atrial fibrillation.

ICD-10 code

I48

ICD-10 code description

Atrial fibrillation and flutter

Primary outcomes

1

Description

Atrial fibrillation

Timepoint

After coronary artery bypass graft surgery AF

Method of measurement

Checking of patients rhythm in open heart surgery ICU

Secondary outcomes

1

Description

Length of hospitalization

Timepoint

Time of discharge

Method of measurement

Patients records

Intervention groups

1

Description

Intervention group: 1 gr fish oil pearls containing 300mg EPA and 200 mg DHA, twice a day , given the patients at least 5 day before surgery until time of discharge.

Category

Treatment - Drugs

2

Description

Control group: 1 gr olive oil pearls , twice a day, given to the patients, at least 5 days before surgery until time of discharge.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Rajaie Heart center

Full name of responsible person

Dr. Ali Vasheghani Farahani

Street address

Rajaie Heart center, Vali Asr st., Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehan University of Medical Sciences

Full name of responsible person

Hajar Moammaie

Street address

Tehan University of Medical Sciences, Taleghani st., Ghods st., Enghelab square, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehan 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

Tehan University of Medical Sciences

Full name of responsible person

Awat Yousefi Azar

Position

Msc in critical care nursing

Other areas of specialty/work

Street address

No 2, Derakhti alley, Nazari alley, South Madani st.

City

Tehran

Postal code

Phone

Fax

Email

a.youa@yahoo.com; aya.intensivist@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehan University of Medical Sciences

Full name of responsible person

Ali Vasheghani Farahani

Position

Fellowship of electrophysiology

Other areas of specialty/work

Street address

Tehran Heart Center, North Karegar st., Tehran

City

Tehran

Postal code

Phone

Fax

Email

avasheghani@tums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tehan University of Medical Sciences

Full name of responsible person

Awat Yousefi Azar

Position

Msc in critical care nursing

Other areas of specialty/work

Street address

No 2, Derakhti alley, Nazari alley, South Madani st.

City

Tehran

Postal code

Phone

Fax

Email

a.youa@yahoo.com

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