

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Aug 2026

Investigation of the efficacy of dual anti-platelet therapy compared to aspirin on graft patency and peri-operative bleeding in coronary artery bypass graft surgery

Protocol summary

Study aim

superiority of dual anti-platelet therapy(DAPT)(Clopidogrel+Aspirin) compared to mono-therapy(Aspirin) on reduction of early graft occlusion after CABG will be assessed.

Design

In a multi-center, randomized controlled trial with parallel design (phase II) 216 patients will be randomly assigned to intervention(DAPT) or control(aspirin) group.

Settings and conduct

The trial is open-label and will be conducted in three centers for cardiovascular diseases in Tehran, Iran.

Participants/Inclusion and exclusion criteria

Inclusion: Age ≥ 18 year; Candidate for elective CABG.
Exclusion: Concomitant valve surgeries; Concomitant Aortic surgery; Redo-CABG; Not taking Aspirin at least 48 hours before surgery; Clopidogrel use within 5 days before CABG; Any condition with increased bleeding risk that precludes DAPT; Significant bleeding in the first 4 hours after surgery

Intervention groups

Intervention (DAPT): loading dose of 300 mg of Clopidogrel within 24 hours after surgery and a maintenance dose of 75 mg/day for 30 days in combination with 80-325 mg Aspirin Control: Aspirin 80-325 mg/day

Main outcome variables

graft patency evaluated by a CT angiography 6 months after the surgery

General information

Reason for update

Acronym

DAPT in CABG

IRCT registration information

IRCT registration number: **IRCT20171113037434N1**

Registration date: **2018-01-10, 1396/10/20**

Registration timing: **retrospective**

Last update: **2018-01-10, 1396/10/20**

Update count: **0**

Registration date

2018-01-10, 1396/10/20

Registrant information

Name

Seifollah Abdi

Name of organization / entity

Rajaie Cardiovascular Medical and Research Center

Country

Iran (Islamic Republic of)

Phone

+98 21 2392 2356

Email address

dr.abdi@rhc.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2012-05-01, 1391/02/12

Expected recruitment end date

2015-12-30, 1394/10/09

Actual recruitment start date

2012-05-01, 1391/02/12

Actual recruitment end date

2015-12-30, 1394/10/09

Trial completion date

empty

Scientific title

Investigation of the efficacy of dual anti-platelet therapy compared to aspirin on graft patency and peri-operative bleeding in coronary artery bypass graft surgery

Public title

Dual anti-platelet therapy in coronary artery bypass graft surgery

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients Age ≥ 18 year-old Candidate for elective coronary bypass graft surgery

Exclusion criteria:

1) Concomitant valve surgeries 2) Concomitant Aortic surgery 3) Redo-CABGs 4) Patients who don't take Aspirin at least 48 hours before surgery 5) Clopidogrel use within 5 days before CABG 6) Any condition with increased bleeding risk that precludes dual anti-platelet therapy 7) Significant bleeding in the first 4 hours after surgery

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **216**

Actual sample size reached: **140**

Randomization (investigator's opinion)

Randomized

Randomization description

The participants in this study will be randomized (on a 1:1 basis) using permuted block method to either dual anti-platelet therapy group (Clopidogrel and Aspirin) or Aspirin monotherapy group within 24 hours after surgery. The process of random assignment will be conducted in our data management center (DMC) a center, located in one of the collaborating hospitals (Rajaie Cardiovascular Medical and Research Center) by the team members do not involve in the conduction of the trial performed. Random sequence will be generated using permuted block randomization method (block of four). After registration of each patient in the trial, the responsible nurse called the center DMC and asked for the assigned study group. According to the random sequence, the staff in the center will announce the assigned group as "Group A" (DAPT) or "Group B" (control) to the nurse.

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of FACULTY OF NURSING AND MIDWIFERY, Karaj Islamic Azad University

Street address

Imam Ali Complex, End of Rajaei-Shahr, Moazen Blvd - Esteghlal Crossroad,

City

Karaj

Province

Alborz

Postal code

3148635731

Approval date

2011-10-31, 1390/08/09

Ethics committee reference number

1390/8/9-29

Health conditions studied**1****Description of health condition studied**

coronary artery bypass graft

ICD-10 code

Z95.5

ICD-10 code description

Presence of coronary angioplasty implant and graft

Primary outcomes**1****Description**

graft patency

Timepoint

six months after CABG surgery

Method of measurement

coronary CT angiography

Secondary outcomes**1****Description**

The amount of chest tube output

Timepoint

four hours after surgery

Method of measurement

Measuring the chest tube drainage (it will be considered significant when its amount is more than 100 cm³ per hour in average for a 4 hours interval in ICU after surgery.)

2**Description**

The need for blood transfusions with either of the following: a. ≥ 2 units of packed red blood cells b. ≥ 2 units of fresh frozen plasma c. ≥ 5 units of platelets

Timepoint

hospital stay duration

Method of measurement

Counting the transfused products units

3

Description

In-hospital mortality

Timepoint

hospital stay duration

Method of measurement

observation

Intervention groups

1

Description

Intervention group: Dual anti-platelet therapy (DAPT) group received a loading dose of 300 mg (4 tablets) of Clopidogrel (Plavix ®, Sanofi-Aventis Co.) within 24 hours after surgery and a maintenance dose of 75 mg/day was continued for 30 days in combination with 80-325 mg Aspirin.

Category

Treatment - Drugs

2

Description

Control group: Aspirin 80-325 mg/day

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rajaie Cardiovascular Medical and Research Center

Full name of responsible person

Seyfollah Abdi

Street address

Valiasr Ave Niayesh Intersection

City

Tehran

Province

Tehran

Postal code

1995614331

Phone

+98 21 23921

Fax

+98 21 2204 2026

Email

dr.abdi@rhc.ac.ir

Web page address

<http://www.rhc.ac.ir>

2

Recruitment center

Name of recruitment center

Day General Hospital

Full name of responsible person

Seyfollah Abdi

Street address

Valiasr Ave Abbaspour St. Intersection

City

Tehran

Province

Tehran

Postal code

1995614331

Phone

+98 21 8879 7111

Email

dr.abdi@rhc.ac.ir

Web page address

<http://www.daygeneralhospital.ir>

3

Recruitment center

Name of recruitment center

Pars General Hospital

Full name of responsible person

Seyfollah Abdi

Street address

No.67- Keshavarz Blvd

City

Tehran

Province

Tehran

Postal code

1415944911

Phone

+98 21 8896 0051

Fax

+98 21 8896 6052

Email

dr.abdi@rhc.ac.ir

Web page address

<http://www.parsgeneralhospital.com>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sanofi-Aventis Pharmaceutical Company

Full name of responsible person

Nariman Sadri

Street address

18, 35th Str, Alvand Ave, Argentine Sq.

City

Tehran

Province

Tehran
Postal code
1516683511
Phone
+98 21 8864 9700
Email
info@sanofi-aventis.com
Web page address
<http://www.sanofi.us/l/us/en/index.jsp>
Grant name
Grant code / Reference number
CLOPI_L_05766
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Sanofi-Aventis Pharmaceutical Company
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
Industry

Person responsible for general inquiries

Contact

Name of organization / entity
Rajaie Cardiovascular Medical and Research Center
Full name of responsible person
Hooman Bakhshandeh
Position
Associate professor
Latest degree
Ph.D.
Other areas of specialty/work
Epidemiology
Street address
Niayesh-Valiasr cross roads
City
Tehran
Province
Tehran
Postal code
1995614331
Phone
+98 21 2392 3138
Fax
+98 21 2266 3217
Email
hooman.bakhshande@gmail.com
Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Rajaie Cardiovascular Medical and Research Center
Full name of responsible person
Hooman Bakhshandeh
Position
Associate professor
Latest degree
Ph.D.
Other areas of specialty/work
Epidemiology
Street address
Niayesh-Valiasr cross roads
City
Tehran
Province
Tehran
Postal code
1995614331
Phone
+98 21 2392 3138
Fax
+98 21 2266 3217
Email
hooman.bakhshande@gmail.com
Web page address

Person responsible for updating data

Contact

Name of organization / entity
Rajaie Cardiovascular Medical and Research Center
Full name of responsible person
Hooman Bakhshandeh
Position
Associate professor
Latest degree
Ph.D.
Other areas of specialty/work
Epidemiology
Street address
Niayesh-Valiasr cross roads
City
Tehran
Province
Tehran
Postal code
1995614331
Phone
+98 21 2392 3138
Fax
+98 21 2266 3217
Email
hooman.bakhshande@gmail.com
Web page address

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

No - There is not a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

- study protocol - De-identified Individual Participant Data Set (without patients' name, file number and medical center) - final report of the study

When the data will become available and for how long

After publishing the results of the study

To whom data/document is available

The mentioned data/documents will be available for all the stakeholders. Complementary data can be requested only by academic researchers.

Under which criteria data/document could be used

Written permission from the primary investigator (Dr Abdi) is needed for any publication and usage of data.

From where data/document is obtainable

Documents/ data will be available via contacting Dr Seyfollah Abdi: phone:02123921 or email: dr.abdi@rhc.ac.ir

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

Only process is direct contact with primary investigator.

Comments