

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of memantine in post operative cognition disorder (POCD), after coronary artery bypass graft (CABG). bypass graft (CABG), based on wechsler score

Protocol summary

atalasaz@razi.tums.ac.ir

Summary

The aim of this clinical trial is to evaluate the effect of Memantin in post-operative cognition disorders. 160 patients of ages 45-75 years with no previous neurologic dysfunction, who are candidates for CABG, will be randomized to be in control or test group. Patients in test group will receive 5 mg Memantin twice daily from the time of admission to 3 months. The cognition status will be assessed by the Wechsler memory test in both control and test group at the time of admission, after CABG, and when any of individual returns to follow up 3 months after discharge.

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Science

Expected recruitment start date

2013-05-27, 1392/03/06

Expected recruitment end date

2014-10-05, 1393/07/13

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201303168698N12**

Registration date: **2013-06-17, 1392/03/27**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-06-17, 1392/03/27

Registrant information

Name

Azita Hajhossein Talasaz

Name of organization / entity

Department of Clinical Pharmacy, Faculty of Pharmacy, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 66954709

Email address

Scientific title

Effect of memantine in post operative cognition disorder (POCD), after coronary artery bypass graft (CABG). bypass graft (CABG), based on wechsler score

Public title

Effect of memantine in post operative cognition disorder (POCD), after coronary artery bypass graft (CABG).

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All patients who undergone CABG surgery: Having Wechsler score within normal range: Having Literacy Exclusion criteria: Patients younger than 45 years and older than 75 years: History of neurologic disorder

Age

From **40 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked
No information

Sample size
Target sample size: **160**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Tehran Heart Center

Street address
Tehran Heart Center, Kargar Shomali Ave.

City
Tehran

Postal code

Approval date
2013-03-12, 1391/12/22

Ethics committee reference number
754

Health conditions studied

1

Description of health condition studied
Patients who are candidate for coronary artery bypass surgery

ICD-10 code
T82.9

ICD-10 code description
Unspecified complication of cardiac and vascular prosthetic device, implant and graft

Primary outcomes

1

Description
Cognition Disorder

Timepoint
First day of admission, After CABG, 3 month after discharg

Method of measurement
wechsler Score

Secondary outcomes

1

Description
Anxiety

Timepoint
First day of admission, At the time of discharge, 3month after discharg

Method of measurement
Hemilton

Intervention groups

1

Description
In test group: Tab memantin 5 mg twice daily for 3 mounths and assessed with a wechsler Cognition test.

Category
Treatment - Drugs

2

Description
In control group: Just assessed with a wechsler Cognition test.

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Tehran heart center

Full name of responsible person
Saba Ghaffary Eyrdmoussa

Street address
Tehran Heart Center, Kargar Shomali Ave.

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Fatemeh Saeedi

Street address
School of Pharmacy, Tehran University of Medical Sciences, 16 Azar St.

City
Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Tehran 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**

Tehran University of Medical Sciences

Full name of responsible person

Azita Haj Hossein Talasaz

Position

Assistant Professor

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

School of Pharmacy, 16 Azar St.

City

Tehran

Postal code**Phone**

+98 912 377 8707

Fax**Email**

atalasaz@razi.tums.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tehran Heart Center, Tehran University of Medical Sciences

Full name of responsible person

Azita Haj Hossein Talasaz, Padideh Ghaeli

Position

Assistant Professor, Professor

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

Tehran Heart Center, Kargar Shomali St.

City

Tehran

Postal code**Phone**

00982188029600 - 00982166954709

Fax**Email**

atalasaz@razi.tums.ac.ir, mmppg@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Tehran University of Medical Sciences

Full name of responsible person

Saba Ghaffary Eyrdmoussa

Position

Resident of clinical pharmacy

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

Pharmacotherapy Department, School of Pharmacy, Tehran University of Medical Sciences

City

Tehran

Postal code**Phone**

+98 21 6695 4709

Fax**Email**

saba_gh_64@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*