Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Jun 2026

Evaluation of Dexamethasone effects on Postoperative Delirium after coronary artery bypass

Protocol summary

Summary
This double blind randomized clinical trial and single institutional study was conducted with objective of evaluation of dexamethasone effects on postoperative deliriums and complications after cardiac surgery. Inclusion criteria was candidacy for coronary baypass surgery and exclusion criteria was longer duration of cardiopulmunary bypass (more than 3 hour), age older than 80 years, Eejection fraction lower than 20%, instability of hemodynamic, history of delirium, and emergency operation. Totally, 110 eligible patients who undergone coronary arteries bypass graft was divided into 2 groups. Dexamethasone group taken 8mg dexamethasone before induction of anesthesia followed by 8mg every 8 hours for 3 day and other group received placebo in same way.

General information

Acronym
IRCT registration information
IRCT registration number: **IRCT201202229108N1**
Registration date: **2012-03-15, 1390/12/25**
Registration timing: **retrospective**

Last update:
Update count: **0**
Registration date
2012-03-15, 1390/12/25

Registrant information
Name
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Recruitment status
Recruitment complete
Funding source
Isfahan University Of Medical Sciences

Expected recruitment start date
2009-02-01, 1387/11/13
Expected recruitment end date
2011-01-01, 1389/10/11
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation of Dexamethasone effects on Postoperative Delirium after coronary artery bypass

Public title
Effect Of Dexamethasone
Purpose
Prevention
Inclusion/Exclusion criteria
Inclusion criteria: Canidateted patients for coronary baypass surgery Exclusion criteria: longer duration of cardiopulmunary bypass (more than 3 hour); age older than 80 years; EF lower than 20%; instability of hemodynamic; history of delirium; emergency operation
Age
To **80 years** old
Gender
Both

Phase
N/A
Groups that have been masked

No information

Sample size
Target sample size: **110**

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
Isfahan University of Medical Sciences

Street address
Isfahan University of Medical Sciences, Hezar Jarib Ave

City
Isfahan

Postal code

Approval date
2008-10-25, 1387/08/04

Ethics committee reference number
123628

Health conditions studied

1

Description of health condition studied
Atherosclerotic heart disease

ICD-10 code
I25.1

ICD-10 code description
Atherosclerotic heart disease

Primary outcomes

1

Description
Postoperative Delirium

Timepoint
first, 2nd, 3ed postoperative day

Method of measurement
MME questionaire

Secondary outcomes

1

Description
intensive care unit and hospital length of stay

Timepoint
after discharge

Method of measurement
hospital documents

Intervention groups

1

Description
Intravenous injection of 2cc equal with 8mg of dexamethasone before surgery, following by 2cc(8mg) of dexamethasone every 8 hour for 3 day

Category
Treatment - Drugs

2

Description
Intravenous injection of 2cc Normal saline(placebo) before surgery, following by 2cc of normal saline every 8 hour for 3 day

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Chamran Heart Center

Full name of responsible person
Hamid Bigdelian

Street address
Chamran Heart Center, Salman farsi Ave

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Isfahan University of Medical Sciences

Full name of responsible person
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Grant name

Grant code / Reference number

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

Title of funding source
Isfahan 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

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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