

# 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 bypass surgery and exclusion criteria was longer duration of cardiopulmonary bypass (more than 3 hour), age older than 80 years, Ejection 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

Hamid Bigdelian

###### Name of organization / entity

Isfahan University of medical sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 31 1260 7357

###### Email address

bigdelian@med.mui.ac.ir

###### 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 bypass surgery Exclusion criteria: longer duration of cardiopulmonary 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 questionnaire

## 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

##### City

Isfahan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Isfahan University of Medical Sciences

##### Full name of responsible person

Hamid bigdelian

##### Street address

Isfahan University of Medical Sciences, Hezar Jarib Ave

##### City

Isfahan

#### 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

### Contact

**Name of organization / entity**  
Department of Cardiac surgery, Isfahan University of  
Medical Sciences  
**Full name of responsible person**  
Hamid Bigdelian  
**Position**  
Assistant Professor, MD.  
**Other areas of specialty/work**  
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## Person responsible for scientific inquiries

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## Person responsible for updating data

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Assistant professor, MD.  
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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*