

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

Effect of variability of central venous pressure values to prevent atrial fibrillation after coronary by pass grafting

Protocol summary

Study aim

Effect of variability of central venous pressure values to prevent atrial fibrillation after coronary by pass grafting

Design

A Non-randomized clinical trial with parallel groups. 150 patients have divided into intervention 3 groups A, B and C.

Settings and conduct

The study population consisted of patients who referred to Ayatollah Rouhani Hospital in Babol. Group 1: Normal pressure group (8 to 12 mmHg) Group 2: Low pressure group (less than 8), Group 3: High pressure group (greater than 12), During hospitalization with central venous pressure treatment, we normalized central venous pressure in all 3 groups. In the low pressure group of fluid delivery and, if necessary, vasopressor, and the high-pressure group performed fluid restriction and Furosemide injection.

Participants/Inclusion and exclusion criteria

Inclusion Criteria: Patients undergoing isolated coronary artery bypass graft surgery Exclusion Criteria: History of atrial fibrillation Renal failure with plasma creatinine greater than 2 mg/dl, Malignant or inflammatory diseases, Mixed cardiac operations including valve replacement, Active hepatic-biliary diseases

Intervention groups

Group 1: Normal pressure group (8 to 12 mmHg) Group 2: Low pressure group (less than 8) Group 3: High pressure group (greater than 12) During hospitalization with central venous pressure treatment, we normalized central venous pressure in all 3 groups. In the low pressure group of fluid delivery and, if necessary, vasopressor, and the high-pressure group performed fluid restriction and Furosemide injection.

Main outcome variables

Atrial fibrillation after Coronary Artery Bypass Graft surgery

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190928044907N1**

Registration date: **2019-09-29, 1398/07/07**

Registration timing: **retrospective**

Last update: **2019-09-29, 1398/07/07**

Update count: **0**

Registration date

2019-09-29, 1398/07/07

Registrant information

Name

seyed hossein hamidi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3222 3301

Email address

a.hamidi@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-03-11, 1397/12/20

Expected recruitment end date

2019-09-21, 1398/06/30

Actual recruitment start date

2019-03-11, 1397/12/20

Actual recruitment end date

2019-09-21, 1398/06/30

Trial completion date

2019-09-21, 1398/06/30

Scientific title

Effect of variability of central venous pressure values to prevent atrial fibrillation after coronary by pass grafting

Public title
Effect of variability of central venous pressure values to prevent atrial fibrillation

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Patients undergoing isolated coronary artery bypass graft surgery
Exclusion criteria:
History of atrial fibrillation Renal failure with plasma creatinine greater than 2 mg/dl Malignant or inflammatory diseases Mixed cardiac operations including valve replacement Active hepatic-biliary diseases

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **150**
Actual sample size reached: **150**

Randomization (investigator's opinion)
N/A

Randomization description

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 Babol University Of Medical Sciences
Street address
Daneshgah Square, Ganjafrooz Avenue
City
Babol
Province
Mazandaran
Postal code
47176-41367
Approval date

2019-03-10, 1397/12/19
Ethics committee reference number
 IR.MUBABOL.HRI.REC.1398.009

Health conditions studied

1

Description of health condition studied

Atrial fibrillation

ICD-10 code

I48

ICD-10 code description

Atrial fibrillation and flutter

Primary outcomes

1

Description

Atrial fibrillation after Coronary Artery Bypass Graft surgery

Timepoint

During 5 days after operation

Method of measurement

ECG monitoring

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group1: Low pressure group (less than 8),Treatment of central venous pressure In the low pressure group by giving fluid and vasopressor if necessary.

Category

Prevention

2

Description

Intervention group2 : High pressure group (greater than 12), Treatment of central venous pressure In the high-pressure group by limiting fluids and giving 40 mg of Furosemide.

Category

Prevention

3

Description

Control group: Normal pressure group (8 to 12 mmHg)

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayatollah Rouhani Hospital

Full name of responsible person

Seyed Hossein Hamidi

Street address

Ruhani Hospital, Daneshgah Square, Ganjafrouz Avenue

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s.hosseinhamidi@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr Reza Ghadimi

Street address

Vice-chancellor Of Research, Daneshgah Square, Ganjafrouz Avenue

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rezaghadimi@yahoo.com

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Babol University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

seyed hossein Hamidi

Position

assistant professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is still no plan for its publish.

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available