Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effect of postoperative active warming of patient on bleeding and coagulation factor function after off-pump coronary artery bypass graft surgery

Protocol summary

Summary

The main objective of this study is to determine the effect of postoperative active warming of patient on bleeding and coagulation factor after off-pump coronary artery bypass graft surgery. This randomized clinical trial will be performed on 60 patients undergoing off-pump coronary artery bypass graft surgery. Inclusion criteria consist of: Patients are candidate for OPCAB, between 30-70 years old, no history of previous CABG, Normal coagulation tests include: pt, ptt and platelet count before surgery, ventricular ejection fraction more than 35% of output, The absence of preoperative coagulation disorders, written informed consent to participate in the study. exclusion criteria consist of: need for high dose inotrope after CABG, Need for IABP in perioperation, Need for cardiopulmonary bypass intra operation. in intervention group: Active warming of patient will be started after admission in ICU (to reach 36.7°C). in control group will be used a bedsheet. Chest tube drainage will be recorded 6 and 24 hours after the operation. Packed red blood cell requirement will be recorded 24 hours after the operation. coagulation profiles will be recorded immediately after and 6 hours after the operation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013111315395N1**
Registration date: **2014-06-14, 1393/03/24**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-06-14, 1393/03/24

Registrant information

Name

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Name of organization / entity

shahid sadoughi University of Medical Sciences

Country

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Phone

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Recruitment status

Recruitment complete

Funding source

Yazd shahid sadoughi university of Medical Sciences

Expected recruitment start date

2014-01-21, 1392/11/01

Expected recruitment end date

2014-06-22, 1393/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of postoperative active warming of patient on bleeding and coagulation factor function after off-pump coronary artery bypass graft surgery

Public title

Effect of warming of patient on bleeding and coagulation factor after coronary artery bypass graft surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Patients are candidate for OPCAB

between 30-70 years old; no history of previous CABG; Normal protrombin time partial tromboplastin time and platelet count before surgery; ventricular ejection fraction more than 35% of output; written informed consent to participate in the study. exclusion criteria: need for high dose inotrope after CABG; Need for IABP in perioperation; Need for cardiopulmonary bypass intraoperation.

Age
From **30 years** old to **70 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

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
Yazd University of Medical Sciences

Street address
Bahonar Square, Headquarters Yazd University

City
Yazd

Postal code
8916877443

Approval date
2013-10-21, 1392/07/29

Ethics committee reference number
17/1/141446/پ

Health conditions studied

1

Description of health condition studied
Coronary artery Bypass Graft Patients

ICD-10 code
I25.1

ICD-10 code description
Atherosclerotic heart disease

Primary outcomes

1

Description
Level of prothrombin time, activated partial thromboplastin time, and platelet count

Timepoint
At time zero and 6 hours after surgery

Method of measurement
prothrombin time and activated partial thromboplastin time measured by second and platelet count by number in cubic milimeter

2

Description
The rate of postoperative bleeding

Timepoint
At 6 and 24 hours after surgery

Method of measurement
Measure Chest bottle drainage by cc

Secondary outcomes

1

Description
Packed red blood cells transfused

Timepoint
24 hours after surgery

Method of measurement
number of units of packed red blood cells transfused within 24 hours after operation

Intervention groups

1

Description
in control group will be used a bedsheet

Category
Prevention

2

Description
in intervention group: Active warming of patient will be started after admission in ICU (to reach 36.7°C).

Category
Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Yazd Afshar Hospital

Full name of responsible person
Mrs. H.Dehghani
Street address
Yazd University of Medical Sciences, School of Nursing
City
Yazd

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Shahid Sadoughi University of Medical Sciences
Full name of responsible person
Dr.f.Ezoddini
Street address
Vice chancellor for research, Shahid Sadoughi University of Medical Sciences
City
Yazd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research, Shahid Sadoughi 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
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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