Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison alteration of blood glucose level in continue against discontinue usage metformin tablet in diabetic type II patients untill morning of coronary artery graft surgery

Protocol summary

Summary

In this study, we compare alteration of blood glucose levels in continue against discontinue usage metformin tablet untill morning of coronary artery graft (CABG) surgery. Inclusion criteria are all diabetic type II patients between 25 to 100 years old who candidate for elective coronary artery bypass graft surgery. Exclusion criteria are emergency oronary artery bypass graf surgery; diabetic type I and usage metformin tablet more than 1000mg/day. The patients will be studied in two groups randomly. Numbers of patients in this study are 90. In one group, patients discontinue usage metformin tablet before the day of coronary artery graft surgery. In other group, patients continue usage metformin tablet untill morning the day of coronary artery graft surgery. In both groups, blood glucose levels will be measured during and after coronary artery graft surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014092210348N2**
Registration date: **2014-12-13, 1393/09/22**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2014-12-13, 1393/09/22

Registrant information

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Name of organization / entity

Hamedan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Hamedan University of Medical Sciences

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-06-21, 1394/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison alteration of blood glucose level in continue against discontinue usage metformin tablet in diabetic type II patients untill morning of coronary artery graft surgery

Public title

Comparison alteration of blood glucose level in continue against discontinue usage metformin tablet in diabetic type II patients before surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All diabetic type II patients between 25 to 100 years old who candidate for elective coronary bypass graft surgery. Exclusion criteria: Emergency coronary bypass graft surgery; diabetic type I; heart faiure (EF < 35%); treating with dipyridamle; xanthine

derivatives; amiodarone; cimitidine and positive inotrope drugs; renal dysfuction (BUN> 20mg/dl or Cr > 1.5 mg/dl); Off- pump coronary bypass grafsurgery and usage metformin more than 1000mg/day.

Age
From **25 years** old to **100 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

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
Hamedan University of Medical Sciences

Street address
Hamedan University of Medical Sciences، Shariaty cross، Hamedan

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Postal code
835125544 3

Approval date
2014-09-16, 1393/06/25

Ethics committee reference number
2888\9\35\16\پ

Health conditions studied

1

Description of health condition studied
Diabet

ICD-10 code
E10, E14

ICD-10 code description
Non-insulin-dependent diabetes mellitus

Primary outcomes

1

Description
Blood glucose level

Timepoint
Before and during and after surgery

Method of measurement
mg/dl

Secondary outcomes

1

Description
Blood cratenin level

Timepoint
Before and during and after surgery

Method of measurement
mg/dl

Intervention groups

1

Description
intervention: Discontinue metformin tablet one day before surgery control: Continue metformin tablet until morning the day of surgery

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Ekbatan Hospital

Full name of responsible person
Masoud Tarbiat

Street address
Ekbatan Hospital، Taleghani Street، Hamedan

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Hamedan University of Medical Sciences

Full name of responsible person
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Grant name
معاونت تحقيقات و فناوري دانشگاه علوم پزشكي همدان
Grant code / Reference number
9109213560
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan 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