

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 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 coronary artery bypass graft 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

Name

Masoud Tarbiat

Name of organization / entity

Hamedan University of Medical Sciences

Country

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Phone

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Email address

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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 failure (EF < 35%); treating with dipyridamle; xanthine

derivatives; amiodarone; cimitidine and positive inotrope drugs; renal dysfunction (BUN > 20mg/dl or Cr > 1.5 mg/dl); Off-pump coronary bypass graft surgery 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

City

Hamedan

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

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Saeid Bashirian

Street address

Hamedan University of Medical Sciences, Fahmideh Street, Hamedan

City

Hamedan

Grant name

معاونت تحقیقات و فناوری دانشگاه علوم پزشکی 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**Contact****Name of organization / entity**

Hamedan University Of Medical Sciences

Full name of responsible person

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Position

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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