Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Comparison of the effects of propofol and isoflurane on blood glucose during surgery in diabetic patients

Protocol summary

Summary

The purpose of this study was to compare the effects of propofol and isoflurane on blood glucose during abdominal hysterectomy in the diabetic women in Shahid Sadoughi hospital , Yazd, Iran. In this randomized double blind trial,30women, aged 35-65 years old, and ASA physical status II, are assigned into one of the two groups to receive propofol or isoflurane for maintenance of anesthesia. systolic ,diastolic and mean arterial pressure ,end tidal co2 are measured before induction of anesthesia ,immediately after intubation ,after skin incision , and then every 15 minutes until the end of surgery.Bloob glucose is measured before induction of anesthesia ,after skin incision and every30 minutes until the end of recovery time .Dextrose -saline half normal and regular insulin infuse during surgery to control blood glucose between 100-180 mg/dl.Total dose of insulin that is used during surgery is recorded .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203032963N5**
Registration date: **2012-03-18, 1390/12/28**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-03-18, 1390/12/28

Registrant information

Name

Shekoufeh Behdad

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 1822 1386

Email address

drbehdad@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2012-02-20, 1390/12/01

Expected recruitment end date

2012-09-22, 1391/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of propofol and isoflurane on blood glucose during surgery in diabetic patients

Public title

Comparison of the effects of two anesthetic drugs on blood glucose during surgery in diabetic patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: type II diabetic women who are candidate for elective abdominal hysterectomy, age 35-65years old and their BS at the night before surgery and FBS were<200 ,Exclusion criteria: patients with diabetic nephropathy ,ischemic heart disease,a history of allergy to anesthetic drugs ,severe hepatic disease ,opium addiction,BMI>35

Age

From **35 years** old to **65 years** old

Gender

Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Shahid Sadoughi University of Medical Sciences
Street address
Bahonar square
City
yazd
Postal code
Approval date
2012-02-18, 1390/11/29
Ethics committee reference number
148522

Health conditions studied

1

Description of health condition studied
diabetes
ICD-10 code
E10
ICD-10 code description
Insulin-dependent diabetes mellitus

Primary outcomes

1

Description
blood glucose
Timepoint
before induction of anesthesia ,after skin incision and every30 minutes until the end of recovery time
Method of measurement
Glucometer (Accu-chek)and blood sample

2

Description
insulin requirements
Timepoint
at the end of surgery
Method of measurement
the units of required insulin

Secondary outcomes

1

Description
systolc ,diastolic and mean arterial pressure
Timepoint
Before induction of anesthesia ,immediately after intubation ,and then every 15 minutes
Method of measurement
with using blood pressure monitoring device (SAADAT)

Intervention groups

1

Description
in this group maintenance of anesthesia is with 0.5-1 MAC isoflurane
Category
Treatment - Drugs

2

Description
In this group maintenance of anesthesia is with propofol 100-200 microgram/kg/min
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Shahid Sadoughi Hospital
Full name of responsible person
Dr Shekoufeh Behdad
Street address
Shahid Sadoughi Hospital
City
YAZD

Sponsors / Funding sources

1

Sponsor
Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr. Hasan Mozaffari

Street address

Bahonar square

City

YAZD

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

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

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr.SHEKOUFEH BEHDAD

Position

Assistant of professor

Other areas of specialty/work

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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