Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparing of plasma blood sugar between patients undergoing elective cesarean section under general or spinal anesthesia

Protocol summary

Summary

Surgery and pain are associated with stress response that lead to increase in stress hormones such as norepinephrine, epinephrine, etc. These hormones may stimulate gluconeogenesis and increment in blood sugar. It seems general or spinal anesthesia may reduce the stress response due to surgery, thus we aimed to compare between the effects of these two ways on blood glucose. This study was a single blind randomized clinical trial scheduled on 60 patients with American society anesthesia physical classification system (ASA) 1 or 2. In this study blood glucose was measured before operation as a baseline glucose, intraoperative and at 2, 12, 24 hours from end of the surgery then the data in each hour from one patient subtract from preoperative data of him or herself. These differences in any times were compared between patients undergoing cesarean under general or spinal anesthesia

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015030821383N1**
Registration date: **2015-07-24, 1394/05/02**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-07-24, 1394/05/02

Registrant information

Name

Amir Saber Tanha

Name of organization / entity

Birjand University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 56 3243 2778

Email address

dr.saber@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2015-01-27, 1393/11/07

Expected recruitment end date

2015-07-29, 1394/05/07

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing of plasma blood sugar between patients undergoing elective cesarean section under general or spinal anesthesia

Public title

Comparing of plasma blood sugar between patients undergoing elective cesarean section under general or spinal anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: all weman with the age range between 20 to 50 who has been sheduled for elective cesarean section surgery under general or spinal anesthesia.
Exclusion criteria: diabetus mellitus; history of corticosteroid therapy; recent oxytocin administration; history of addiction; history of gestational diabetus mellitus; history of preeclampsia.

Age

From **20 years** old to **50 years** old

Gender

Female

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)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Birjand University of Medical Sciences

Street address

Birjand University of Medical Sciences, Ghafari Street

City

Birjand

Postal code

9717853577

Approval date

2015-01-26, 1393/11/06

Ethics committee reference number

93-11-02

Health conditions studied

1

Description of health condition studied

General anesthesia,spinal anesthesia

ICD-10 code

Y84.8

ICD-10 code description

Other medical procedures

Primary outcomes

1

Description

Changes in serum levels of blood sugar

Timepoint

Intraoperative, postoperative, 2 hours after surgery, 12 hours after surgery and 24 hours after surgery

Method of measurement

In milligrams per deciliter of glucometer

Secondary outcomes

1

Description

Blood pressure

Timepoint

Intraoperative, postoperative, 2 hours after surgery, 12 hours after surgery and 24 hours after surgery

Method of measurement

Manometer

Intervention groups

1

Description

general anesthesia

Category

N/A

2

Description

spinal anesthesia

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Valiasr hospital of birjand university of medical sciences

Full name of responsible person

Dr. Amir Saber Tanha, anesthesiologist/assistant proffessor

Street address

Valiasr hospital, Ghafari street, Birjand

City

Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Dr. Asghar Zarban

Street address

Birjand University of Medical Sciences, Ghafari Street

City

Birjandnd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Birjand 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

Birjand University of Medical Sciences

Full name of responsible person

Dr. Amir Saber Tanha

Position

Assistant professor of anesthesia

Other areas of specialty/work

Street address

Birjand University of Medical Sciences, Ghafari Street

City

Birjand

Postal code

9717615583

Phone

+98 56 3243 2778

Fax

Email

dr.saber@bums.ac.ir

Web page address

www.bums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Dr. Amir Saber Tanha

Position

Assistant professor of anesthesia

Other areas of specialty/work

Street address

Birjand University of Medical Sciences, Ghafari Street

City

Birjand

Postal code

9717614483

Phone

+98 56 3243 2778

Fax

Email

dr.saber@bums.ac.ir

Web page address

www.bums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Dr. Amir Saber Tanha

Position

Anesthesiologist, assisstant professor

Other areas of specialty/work

Street address

Birjand University of Medical Sciences, Ghafari Street

City

Birjand

Postal code

9717615583

Phone

+98 56 3243 2778

Fax

Email

dr.saber@bums.ac.ir

Web page address

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