

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 2026

Evaluation the effect of fentanyl as a anesthesia induction drug on fetal apgar score in cesarean section delivery.

Protocol summary

Summary

In this study, 90 healthy women who candidate for elective cesarean section delivery randomly divided in tow case and control group. The case group received 2 microgram per kilogram fentanyl intravenously or an equal volume of intravenous saline in control group at 2 minutes before general anesthesia. 2 minutes later the induction of anesthesia was performed with sodium thiopental 5 milligram per kilogram and succinylcholine 1.5 milligram per kilogram. After confirmation the tracheal intubation surgery was started. Fetal outcome measures included Apgar scores evaluate by blind anesthesiologist in one and five minute after berth and noted.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015010320112N3**

Registration date: **2015-01-25, 1393/11/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-01-25, 1393/11/05

Registrant information

Name

Pooya Derakhshan

Name of organization / entity

Birjand Univesity of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 56 3234 1410

Email address

pooya_derakhshan@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2009-03-21, 1388/01/01

Expected recruitment end date

2011-03-21, 1390/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the effect of fentanyl as a anesthesia induction drug on fetal apgar score in cesarean section delivery.

Public title

effect of fentanyl in anesthesia for cesarean section.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Women who candidate for cesarean section; age between 20 to 35 year old; American association of anesthesiologist class 1 and 2. Exclusion criteria: Cardiopulmonary disease; renal disease; hypertension; opium and other drug abusers; difficult intubation.

Age

From **18 years** old to **45 years** old

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size
Target sample size: 90

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
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
N:56, Ghafari Ave.

City
Birjand

Postal code
1973456783421589

Approval date
2010-10-16, 1389/07/24

Ethics committee reference number
1389-67-90

Health conditions studied

1

Description of health condition studied
Delivery by elective caesarean section

ICD-10 code
O82.0

ICD-10 code description
Delivery by elective caesarean section

Primary outcomes

1

Description
apgar score

Timepoint
first and fifth minutes after berth

Method of measurement
apgar score scale

Secondary outcomes

1

Description
Blood pressure

Timepoint
Every 3 minutes

Method of measurement
sphygmomanometer

Intervention groups

1

Description
Injection of 2 microgram per kilogram fentanyl in intervention group.

Category
Treatment - Drugs

2

Description
Injection of 2 milliliter of ringer in control group.

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Imam Reza Hospital

Full name of responsible person
Pooya Derakhshan

Street address
Imam Reza Hostipal, Taleghani St.

City
Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Birjand University of Medical Sciences

Full name of responsible person
Hasan Karbasi

Street address
Ghafari Ave.

City
Birjand

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*

Birjand

Postal code**Phone**

+98 563222600

Fax**Email**

pooyaderakh@yahoo.com

Web page address**Person responsible for general inquiries****Contact****Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Pooya Derakhshan

Position

Assistant Professor

Other areas of specialty/work**Street address**

Imam Reza Hospital, Taleghani St.

City

Birjand

Postal code

9717913873

Phone

+98 563222600

Fax

+98 563222300

Email

pooyaderkh@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Pooya Derakhshan

Position

Assistant Professor

Other areas of specialty/work**Street address**

Imam Reza Hospital, Taleghani St.

City

Birjand

Postal code

9717913873

Phone

+98 563222600

Fax

+98 563222300

Email

pooyaderakh@yahoo.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Pooya Derakhshan

Position

Assistant Professor

Other areas of specialty/work**Street address**

Imam Reza Hospital, Taleghani St.

City**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*