

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 May 2026

### Effects of local anesthesia on Cortisol and Prolactin concentration in Inguinal Hernioraphy

#### Protocol summary

##### Summary

The aim of this study was to compare the effects of pre- and post incisional infiltration of the surgical area with bopivacaine on cortisol (C) and prolactin (PRL) release and postoperative pain in patients undergoing inguinal hernia repair. In this clinical trial, 48 male patients, aged 20 to 50 years, undergoing inguinal hernia repair under spinal anesthesia were placed randomly into 2 groups. Local anesthesia was performed in group I patients (case) by 2 mg/kg ropivacaine and group II patients (controls) did not receive any local anesthetic. Plasma Cortisol and Prolactin concentration were compared in both groups.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201107131106N4**

Registration date: **2011-08-29, 1390/06/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2011-08-29, 1390/06/07

##### Registrant information

##### Name

Zohreh Azarbad

##### Name of organization / entity

Kashan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 36 1555 2999

##### Email address

azarbad\_zo@kaums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Kashan University of Medical Sciences

##### Expected recruitment start date

2009-11-22, 1388/09/01

##### Expected recruitment end date

2010-12-20, 1389/09/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effects of local anesthesia on Cortisol and Prolactin concentration in Inguinal Hernioraphy

##### Public title

Effects of local anesthesia on Cortisol and Prolactin concentration in Inguinal Hernioraphy

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria : male patient with inguinal hernia with age between 20 to 50. Exclusion criteria : Stuck and needed emergency hernia surgery patients; history of chronic diseases and people who regularly use opium or opiates morphine group

##### Age

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

##### Gender

Male

##### Phase

N/A

##### Groups that have been masked

*No information*

##### Sample size

Target sample size: **48**

**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**

Kashan University of Medical Sciences

**Street address**

5th Km of Ghotbe Ravandi Bulv.

**City**

Kashan

**Postal code**

8713781147

**Approval date**

2009-11-01, 1388/08/10

**Ethics committee reference number**

3271

**Health conditions studied****1****Description of health condition studied**

ingunal hernia

**ICD-10 code**

k40-9

**ICD-10 code description**

Unilateral or unspecified inguinal hernia, without obstruction or gangrene

**Primary outcomes****1****Description**

Prolactin levels

**Timepoint**

Before surgery - 3 hours after surgery

**Method of measurement**

Blood

**2****Description**

Cortisol levels

**Timepoint**

Before surgery - 3 hours after surgery

**Method of measurement**

Blood

**Secondary outcomes****1****Description**

Pain

**Timepoint**

Three hours after surgery

**Method of measurement**

Standard Visual Analogue Scale

**Intervention groups****1****Description**

Intervention group: Local anesthesia by 2 mg/kg ropivacaine

**Category**

Treatment - Drugs

**2****Description**

Control group: did not received any local anesthetic

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Beheshti Hospital

**Full name of responsible person**

Dr.Mehrdad Hosseinpour

**Street address****City**

Kashan

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Kashan University of Medical Sciences

**Full name of responsible person**

Dr. Gholam Ali Hamidi

**Street address**

5th Kilometer Ghotbe Ravandi Bulv.Kashan University of Medical Sciences

**City**

kashan

**Grant name****Grant code / Reference number**

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

Yes

**Title of funding source**

Kashan 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**

kashan Univercity of Medical Sciences

**Full name of responsible person**

Leila Ghafoor

**Position**

General Surgeon

**Other areas of specialty/work**

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**Other areas of specialty/work**

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**Full name of responsible person**

Zohreh Azarbad

**Position**

Midwifery MSc

**Other areas of specialty/work**

**Street address**

**City**

kashan

**Postal code**

**Phone**

**Fax**

**Email**

**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*