

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

The evaluation of success rate of two different methods of ilioinguinal-iliohypogastric nerve block for inguinal surgery in children

Protocol summary

Summary

120 patients, 3-11 years old, with American society of Anesthesiologists (ASA) status I and II, undergoing inguinal hernia repair, chryptorchidism, ...were prospectively enrolled in this study. Two different anatomic locations for ilioinguinal nerve block will be compared. In first group the landmarks will be anterior superior iliac spine and umbilicus, the injection site will be proximal 1/4 of the distance between ASI and umbilicus, the direction of needle (short bevel needle, 22-25 G) will be the same side mid inguinal ligament. In second group landmarks will be anterior superior iliac spine and ilium bone, the injection site will be one cm medial and one cm superior to ASI, the drug of choice will be Bupivacaine %25, 0.4 ml/kg in both groups. The hemodynamic changes will be determined every 15 minutes during operation. If hemodynamic changes will be more than 10% of basic ones then fentanyl 1µg/kg will be injected and the time will be noted. 20 min after block the isoflurane percentage will be decreased. In successful blocks there will be no changes in hemodynamic. The hemodynamic changes, will be determined every 15 min during first postoperative 4 hours. The post-operative pain will be evaluated by Wong-Baker Face Pain Scale (FPS). If the pain score will be more than 2, the patients will be received acetaminophen 20 µg/kg and the time will be noted. The aim of this study is to compare the effects of two methods of ilioinguinal-iliohypogastric nerve block in children under 12 years old (Tabriz Children Hospital) on postoperative analgesia.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903084041N2**

Registration date: **2011-04-14, 1390/01/25**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-04-14, 1390/01/25

Registrant information

Name

Mahin Seyedhejazi

Name of organization / entity

Tabriz University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Tabriz University Of Medical Sciences

Expected recruitment start date

2010-04-19, 1389/01/30

Expected recruitment end date

2011-01-19, 1389/10/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The evaluation of success rate of two different methods of ilioinguinal-iliohypogastric nerve block for inguinal surgery in children

Public title

Ilioinguinal nerve block for inguinal surgery in children

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: children with ASA I,II; 3-11 years old; candidated for lower abdominal surgeries. Exclusion criteria: contraindication to ilioinguinal/iliohypogastric nerve block, failed blocks, known allergy to any of the study drugs.

Age

From **3 years** old to **11 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice Chancellor for Research, Tabriz University Of Medical Sciences

Street address

Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Approval date

2010-06-21, 1389/03/31

Ethics committee reference number

5/4/3826

Health conditions studied

1

Description of health condition studied

ilioinguinal block

ICD-10 code

K40.2

ICD-10 code description

Bilateral inguinal hernia, without obstruction or gangrene

2

Description of health condition studied

ilioinguinal block

ICD-10 code

K40.9

ICD-10 code description

Unilateral or unspecified inguinal hernia, without obstruction or gangrene

Primary outcomes

1

Description

pain

Timepoint

2-4-6-8 hr postoperative

Method of measurement

face pain scale

Secondary outcomes

1

Description

analgesic usage, total dose of analgesic

Timepoint

2-4-6 hr

Method of measurement

face pain scale>5

Intervention groups

1

Description

First group: the injection site for ilioinguinal nerve block will be proximal 1/4 of the distance between anterior superior iliac spine and umbilicus.

Category

Treatment - Other

2

Description

Second group: the injection site will be one cm medial and one cm superior to anterior superior iliac

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz Children Hospital

Full name of responsible person

Dr. Mahin Seyedhejazi

Street address

Tabriz Children Hospital

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor for Research, Tabriz University Of
Medical Sciences

Full name of responsible person
Dr. Alireza Ostadrahimi

Street address
Tabriz University Of Medical Sciences

City
Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor for Research, Tabriz 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
Tabriz University Of Medical Sciences

Full name of responsible person
Dr. Mahin Seyedhejazi

Position
Associate Professor of Anesthesia

Other areas of specialty/work

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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