

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jul 2026

Evaluation the Effectiveness of Transversus Abdominis Plane (TAP) Block with Bupivacaine for Pain Control after Appendectomy in Children

Protocol summary

Summary

Evaluation the Effectiveness of Transversus Abdominis Plane (TAP) Block with Bupivacaine for Pain Control after Appendectomy in Children Inclusion criteria: 1) Children with ASA class 1 or 2 ratings 2) Children between the ages of 4-16 years. 3) Appendectomy candidates Exclusion criteria: 1) Obese patients BMI more than 30 2) Patients with perforated appendicitis 3) Other surgical patients with appendicitis After obtaining informed consent from parents 40 children with age range of 4 -16 years in grades I and II using ASA rating of who were candidate appendectomy coming to Tabriz Children Hospital during 1393-1392 were randomly divided into two groups. Twenty patients in the Tap block group and 20 patients in the control group will be evaluated. Both groups will received general anesthesia. Postoperative, pain score will be measured based on VAS (visual analog scale) in recovery room and then every 2 hours up to 8 hours, and then every 4 hours up to 24 hours . If the pain score greater than or equal to 4, intravenous acetaminophen 10mg / kg , And if the pain score will be less than 4 oral, acetaminophen will be prescribed. In addition, the first request for analgesia, the total dose of pain medication after surgery, the incidence and severity of postoperative complications between the two groups will be recorded. By doing this block is expected to reduce the incidence and severity of pain after appendectomy in children and the need for analgesics. Type of study: A double-blind randomized clinical trial.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201503024041N11**

Registration date: **2015-04-07, 1394/01/18**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-07, 1394/01/18

Registrant information

Name

Mahin Seyedhejazi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences -Vice Chancellor for Research and Technology

Expected recruitment start date

2014-01-21, 1392/11/01

Expected recruitment end date

2014-11-21, 1393/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the Effectiveness of Transversus Abdominis Plane (TAP) Block with Bupivacaine for Pain Control after Appendectomy in Children

Public title

Effect of injection analgesic drug in abdomen wall for pain after appendix surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria :children with ASA class 1,2 ,children with age between 4-16 years old ,patients candidated for appandectomy Exclusion criteria: Obese patients BMI more than 30;Patients with perforated appendicitis;Other surgical patients with appendicitis;Sensitivity to local anesthetics;Patients with organ dysfunction;Patients with psychological dysfunction;Patients with chronic use of pain medications.

Age

From **4 years** old to **16 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

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

Tabriz University of Medical Sciences-Vice Chancellor for Research and Technology

Street address

Golghasht-st. Tabriz - Tabriz University of Medical Sciences, Central Building No. 2 - Third floor - Vice Chancellor Research and Technology

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Postal code

51665-118

Approval date

2013-10-21, 1392/07/29

Ethics committee reference number

92110

Health conditions studied

1

Description of health condition studied

Appendicitis

ICD-10 code

K35.8

ICD-10 code description

Acute appendicitis, other and unspecified

Primary outcomes

1

Description

Incisional pain

Timepoint

Immediately after the intervention

Method of measurement

VAS Score-Questionnaire

Secondary outcomes

1

Description

The need for analgesic

Timepoint

Every two hours to 8 hours, then every 4 hours for 24 hours

Method of measurement

by Researcher postoperative

Intervention groups

1

Description

In the control group after general anesthesia will not have any intervention.

Category

Treatment - Drugs

2

Description

In the intervention group after general anesthesia patient will be received TAP Block with Bupivacaine 0.25% ,(0.25 ml/kg) and adrenaline 1/200000 in Petit triangle.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Children's Hospital of Tabriz University of Medical Sciences

Full name of responsible person

Dr.Mahin Seyedhejazi pediatric anesthesiologist

Street address

Tabriz-Sheshgelan Street- Hospital Children's Center

City

Tabriz

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

Tabriz University of Medical Sciences

Full name of responsible person

Dr Hasan Soleimanpour

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Golgashat Ave- Tabriz University of Medical Sciences

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Tabriz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

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.Samira Motarabesoon

Position

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Tabriz University of Medical Sciences

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Position

Anesthesiologist-Professor

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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*