

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

Effectiveness of rectus sheath block with ultrasound guide in abdominal surgery with mid line incision BESAT hospital HAMADAN in 1394

Protocol summary

Summary

The aim of this study was to evaluate the effectiveness of rectus sheath block under guide of ultrasound in reduced pain after abdominal surgery with midline incision and thereby reduce consumption of opioid. Inclusion criteria are all elective surgery with midline incision: patient with 18 to 79 years old and ASA class 1-2 Who agrees to carry out the plan. Patient with BMI over 35; chronic use of opioid and Psychotropic drugs; any complication in surgery; sensitivity to Bupivacaine; and Emergent surgery excluded from study. Sample size is 60 person. Patient randomized divide in two groups. In intervention group: at the end of surgery before extubation administered both rectus sheath block in guide of ultrasound and before discharge of recovery unit patient take a PCA include morphine and Apotel with no bolus dose and 0 rate of pump. In control group such as intervention group, after surgery and before discharge as recovery unit patient take a PCA with same Specifications. The primary consequence of drug consumption in the first twenty-four hours after the operation was evaluated.

General information

Acronym

RSB

IRCT registration information

IRCT registration number: **IRCT2015052615696N2**

Registration date: **2016-07-02, 1395/04/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-07-02, 1395/04/12

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research and technology, Hamedan University of Medical Sciences

Expected recruitment start date

2015-05-31, 1394/03/10

Expected recruitment end date

2016-04-19, 1395/01/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of rectus sheath block with ultrasound guide in abdominal surgery with midline incision BESAT hospital HAMADAN in 1394

Public title

Effectiveness of rectus sheath block in abdominal surgery

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion: age; ASA class; Persian speaking and aggregation to this study exclusion: disagreement; infection or scar in incision site; sensitivity to bupivacaine;

chronic adiction ; any surgical pittwal or complications that not adequate for block ;sleep disorders ;sever obesity BMI over 33

Age

From **17 years** old to **79 years** old

Gender

Both

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)

Triple blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

hamadan medical university

Street address

shariyati square hamadan Iran

City

Hamadan

Postal code

651738678

Approval date

2015-06-23, 1394/04/02

Ethics committee reference number

IR.UMSHA.REC.1394.158

Health conditions studied

1

Description of health condition studied

abdominal pain

ICD-10 code

R10

ICD-10 code description

Abdominal and pelvic pain

Primary outcomes

1

Description

poat operative pain

Timepoint

each 1 hour for 6 hour

Method of measurement

VAS

Secondary outcomes

1

Description

post operative vomitting

Timepoint

each 1 h for 6 h

Method of measurement

number of ondansetron injection

2

Description

post operative opiume use

Timepoint

each 1 h for 6 h

Method of measurement

loss of PCA as cc

Intervention groups

1

Description

after surgery and befor extubation and derssing ,with ultrasond gide ,visibel bolck needel used 20 cc bupivacain 0.125 % in both rectus sheeth and afrt extubation adminestarde PCA in isolated IV line include morphine 5 mg and apotel 2 gr , infusion rate are 0 , no buluse dose people initialy accepted this study

Category

Rehabilitation

2

Description

in control group , after acceptance , adminstrated PCA from isolated iv line , include morphin 5 mg & apotel 2 gr in 100 cc normal salin, rate of infusion is 0 and no buluse dose.as intervation group this gr

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital

Full name of responsible person

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

Hamedan University of Medical Sciences

Full name of responsible person

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

Yes

Title of funding source

Hamedan 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**

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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