

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Clinical trial on incremental and low dose remifentanyl effect on acute postoperative pain in recovery room after shoulder surgeries

Protocol summary

Summary

In current prospective randomized double-blinded clinical trial, 20 patients, candidate for shoulder surgery, with grade I or II of American society of anesthesiology (ASA), will be evaluated. Patients with history of uncontrollable chronic pain and pregnancy will be excluded.

Subsequent to admission in recovery ward, patients will be randomly assigned to study groups and analgesia protocol will be administered. Right after preparation of required monitoring, pain score will be determined and recorded using pain severity scoring scale. Afterward, subsequent to pain onset in patients, analgesia will be provided via routine recovery (using morphine) in control group and using incremental and low dose remifentanyl in intervention group. In control group, routine recovery will provided using 0.1 mg/kg morphine administration in divided doses. In intervention group, diluted remifentanyl solution including 10 micrograms per milliliter of remifentanyl will be infused 1 milliliter per 20 seconds till pain relief. Individual recording the variables will be blinded to treatment type. Variables such as pain severity, analgesia onset time, analgesia duration, patient request to receive analgesics, apnea incidence, other adverse effects (including nausea and vomiting, bradycardia, hypotension, muscle spasm, pruritus), pain recurrence time and amount of administered drugs will be recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017050126328N4**

Registration date: **2017-06-06, 1396/03/16**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-06-06, 1396/03/16

Registrant information

Name

Masoud Parish

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3385 5842

Email address

parishm@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz university of medical sciences,

Expected recruitment start date

2017-05-22, 1396/03/01

Expected recruitment end date

2018-03-21, 1397/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical trial on incremental and low dose remifentanyl effect on acute postoperative pain in recovery room after shoulder surgeries

Public title

Remifentanyl effect on shoulder surgery postoperative pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients candidate to undergo shoulder surgery; aged between 20 and 60 years old; Class I or II according to ASA classification. Exclusion criteria: history of uncontrollable chronic pain; history of allergy to analgesics; history of psychotropic drugs consumption; recent use of analgesics; operation time more than 2 hours; pregnant and breastfeeding women.

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomization will be performed using Randlist 1.2. software.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Vice chancellor for research, Tabriz university of medical sciences, Daneshgah square

City

Tabriz

Postal code

Approval date

2016-08-29, 1395/06/08

Ethics committee reference number

IR.TBZMED.REC.1395.665

Health conditions studied

1

Description of health condition studied

Shoulder fracture postoperative pain

ICD-10 code

S43

ICD-10 code description

Dislocation, sprain and strain of joints and ligaments of shoulder girdle

Primary outcomes

1

Description

Duration of analgesia onset

Timepoint

Postoperative recovery

Method of measurement

Questionnaire

2

Description

Patients pain severity after shoulder surgery during recovery

Timepoint

In admission to recovery room and discharge from the recovery

Method of measurement

Using visual analogue scale

Secondary outcomes

1

Description

administered remifentanyl dosage amount

Timepoint

During admission to recovery

Method of measurement

Questionnaire

2

Description

nausea and vomiting due to remifentanyl injection

Timepoint

During admission to recovery

Method of measurement

Questionnaire

3

Description

hypotension due to remifentanyl injection

Timepoint

During admission to recovery

Method of measurement

Questionnaire

4

Description

bradycardia due to remifentanyl injection

Timepoint

During admission to recovery

Method of measurement

Questionnaire

Intervention groups

1

Description

Intervention group: Diluted remifentanyl solution including 10 micrograms per milliliter will be infused 1 milliliter each 20 minutes, till complete analgesia onset.

Category

Treatment - Drugs

2

Description

Control group: 0.1 milligram per kilogram morphine will be administered in divided doses, till complete analgesia onset.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada Hospital

Full name of responsible person

Dr. Masoud Parish

Street address

Shohada hospital, Golshahr street, Yaxchian, Tabriz, Iran

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Alireza Ostadrahimi

Street address

Vice chancellor for research, Tabriz University of medical sciences, Daneshgah square

City

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. Masoud Parish

Position

Associate Professor, Specialist in Anesthesiology

Other areas of specialty/work

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Name of organization / entity

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Full name of responsible person

Dr. Masoud Parish

Position

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Other areas of specialty/work

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Person responsible for updating data

Contact

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Dr. Masoud Parish

Position

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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