

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Comparison of epidural administration of magnesium sulfate and analgesic in postoperative shivering through Trans urethral prostate resection surgery (TURP)

Protocol summary

Summary

TURP is a surgery to remove the prostate through urethra with Resectoscope. The effect of this study is to prevent and control the chills and shivering after epidural injection of magnesium sulfate . 60 patients scheduled for elective surgery for implementation of the TURP by ASA I, II, age 65 to 40 years will be studied. Exclusion criteria: hypothermia(T less than 36C), or fever (T more than 38C), finding in favor of Hypo or hyperthyroidism, Parkinson's disease, Raynaud syndrome, myocardial ischemia, cerebrovascular, the need for blood transfusions during surgery, requiring dilator are excluded from the study. Patients randomized to one of two groups: Magnesium sulfate group M) (analgesic group (P). Up to 50 mg of magnesium sulfate 20%,in magnesium sulfate group (normal saline in combination with maximum 1CC) and 25 mg of analgesic (normal saline in combination with maximum 1CC in second group is injected through the epidural space. Pink Prink Test Method for assessment of sensory block is evaluated and the motor block Bromage Scale method was Checked. the number and intensity of shivering chills for 2 groups during operation and in recovery will be registered

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015051111766N3**

Registration date: **2015-07-24, 1394/05/02**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2015-07-24, 1394/05/02

Registrant information

Name

Hossein Khoshrang

Name of organization / entity

Guilan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Guilan University Of Medical Sciences

Expected recruitment start date

2015-09-01, 1394/06/10

Expected recruitment end date

2015-12-31, 1394/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of epidural administration of magnesium sulfate and analgesic in postoperative shivering through Trans urethral prostate resection surgery (TURP)

Public title

The effect of Epidural prescription of magnesium sulfate and Pethedine on shivering through the Trans urethral prostate resection surgery (TURP)

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Inclusion criteria: patients undergoing TURP elective surgery with ASA I, II, age 65 to 40 years
Exclusion criteria: hypothermia (T less than 36C), or fever (T more than 38C); Blood transfusions; Requiring dilator

Age

From **40 years** old to **65 years** old

Gender

Male

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **60**

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**

Ethics committee of Guilan University of Medical Sciences

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Shahid Beheshti Freeway

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Rasht

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4193833697

Approval date

2015-04-27, 1394/02/07

Ethics committee reference number

gums.rec.1394.4

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

Prostate Hyperplasia

ICD-10 code

N40

ICD-10 code description

Prostate Hyperplasia

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

Chills

Timepoint

End of surgery and recovery room

Method of measurement

Chills or not.

Secondary outcomes

empty

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

Intervention 1: Group of magnesium sulfate 50 mg of magnesium sulfate 20% (normal saline in combination with maximum 1CC)

Category

Treatment - Drugs

2**Description**

Intervention 2: Pethedine 25 mg (normal saline 1 CC maximum (

Category

Treatment - Drugs

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

Razi Hospital

Full name of responsible person

Hossein Khoshrang

Street address

Fifteenth Khordad Street

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

Vice chancellor for research of Guilan University of Medical Sciences

Full name of responsible person

Abtin Heidarzadeh

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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
Vice chancellor for research of Guilan 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

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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