

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Efficacy of electroacupuncture on urinary retention after spinal anesthesia

Protocol summary

Study aim

To evaluate the efficacy of electroacupuncture on urinary retention after spinal anesthesia

Design

Randomized, double blind clinical trial with two arm parallel groups

Settings and conduct

In a general University hospital candidates of lower extremity or anorectal surgery under spinal anesthesia will be enrolled. After surgery when the level of spinal anesthesia reaches the T10 the intervention group receives electroacupuncture for 10 minutes. In the placebo group the leads are attached to the patients without stimulation. The patients are blinded to the assignments regarding the analgesia after spinal anesthesia. The investigator is also blinded to the allocations.

Participants/Inclusion and exclusion criteria

Candidates of lower extremity or anorectal surgery under spinal anesthesia will be enrolled. Those with history of urinary problems, need for intraoperative catheterization or unavailability of needling sites (SP6, SP9, ST28, Ren2) would not be recruited. In the case of need for changing the method of anesthesia, urinary trauma or catheterization patients will be excluded.

Intervention groups

After surgery when the level of spinal anesthesia reaches the T10 the intervention group receives electroacupuncture at SP6, SP9, ST28, Ren2 points for 10 minutes. In the placebo group the leads are attached to the patients without stimulation.

Main outcome variables

Time to first urination from spinal anesthesia, Time to first urination from the intervention, complain of difficult urination, need for catheterization due to urinary retention

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20101026005026N10**

Registration date: **2019-06-30, 1398/04/09**

Registration timing: **registered_while_recruiting**

Last update: **2019-06-30, 1398/04/09**

Update count: **0**

Registration date

2019-06-30, 1398/04/09

Registrant information

Name

Masood Mohseni

Name of organization / entity

Rasul Akram hospital, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6435 2326

Email address

mohseni@med.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-31, 1397/11/11

Expected recruitment end date

2020-01-31, 1398/11/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of electroacupuncture on urinary retention after spinal anesthesia

Public title

Efficacy of electroacupuncture on urinary retention after spinal anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Candidates of lower extremity or anorectal surgery under spinal anesthesia

Exclusion criteria:

history of urinary problems need for intraoperative urinary catheterization No access to acupuncture points

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size

Target sample size: **114**

Randomization (investigator's opinion)

Randomized

Randomization description

simple randomization using table of random numbers

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients do not sense the needling because of spinal anesthesia. A separating curtain also limits the sight of patients. The investigator who evaluates the outcomes is blinded to the interventions.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Iran University of Medical Sciences

Street address

Hemmat Highway, Tehran, Iran

City

Tehran

Province

Tehran

Postal code

۱۴۴۵۶۱۳۱۳۱

Approval date

2018-01-28, 1396/11/08

Ethics committee reference number

IR.IUMS.REC.1398.035

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

urinary retention after spinal anesthesia

ICD-10 code

N99.8

ICD-10 code description

Other intraoperative and postprocedural complications and disorders of genitourinary system

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

The rate of urinary catheterization after surgery under spinal anesthesia

Timepoint

from early recovery up to 6 hours after surgery

Method of measurement

direct observation

Secondary outcomes

empty

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

Intervention group: Surface Electroacupuncture for 10 minutes at ST28, Ren2, SP6 & SP9 acupoints

Category

Treatment - Other

2**Description**

Control group: Surface electroacupuncture without stimulation at ST28, Ren2, SP6 & SP9 acupoints

Category

Placebo

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

Rasoul Akram hospital

Full name of responsible person

Masood Mohseni

Street address

Niayesh Ave., Sattar Khan St

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1458843337

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Email

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Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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

Iran University of Medical Sciences

Full name of responsible person

Kazem Malakouti

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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

Iran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Masood Mohseni

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Masood Mohseni

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data**Contact****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Mina Olia

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

IPD collected for the primary and secondary outcomes

When the data will become available and for how long

Immediately after publication

To whom data/document is available

people working in academic institutions

Under which criteria data/document could be used

The result of further analysis may not be presented to public without permission

From where data/document is obtainable

Mohseni.ma@iums.ac.ir

What processes are involved for a request to access data/document

A reasonable request from an academic source will be responded within 10 working days

Comments