Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of Gabapentin, Pregabalin and placebo as premedication for attenuation of hemodynamic response to laryngoscopy and endotracheal intubation

Protocol summary

Summary
Introduction: Tracheal intubation and direct laryngoscopy are powerful noxious stimuli that can elicited hemodynamic responses and should be attenuated by appropriate premedication, smooth induction and rapid intubation. The aim of this study is to compare the effect of gabapentin and pregabalin as premedication for attenuation of hemodynamic response to laryngoscopy and endotracheal intubation. Methods: In a prospective double blinded randomized clinical trial, a total of 90 normotensive adult consented patients aged 20–50 years, ASA grade I and II, of both gender will be randomized into three groups. Group I will received oral placebo, Group II oral gabapentin 900 mg and Group III oral pregabalin 150 mg 2 h prior to induction of anesthesia. Anesthetic technique will be same and all groups will be assessed for, hemodynamic changes after the premedication, before and after induction, and 1,3and 5 min after laryngoscopy and intubation.

General information

Acronym

IRCT registration information
IRCT registration number: **IRCT2017041133365N1**
Registration date: **2017-06-24, 1396/04/03**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date
2017-06-24, 1396/04/03

Registrant information
Name
Alireza Mahoori
Name of organization / entity
Urmia University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 44 3346 8967
Email address
mahouri.a@umsu.ac.ir

Recruitment status
Recruitment complete

Funding source
Urmia University of Medical Sciences

Expected recruitment start date
2017-05-22, 1396/03/01

Expected recruitment end date
2017-08-23, 1396/06/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of Gabapentin, Pregabalin and placebo as premedication for attenuation of hemodynamic response to laryngoscopy and endotracheal intubation

Public title
Comparison of Gabapentin, Pregabalin and placebo as premedication for attenuation of hemodynamic response to laryngoscopy and endotracheal intubation

Purpose
Prevention

Inclusion/Exclusion criteria
Inclusion criteria: 20-50 yrs old; physical status I, II; elective surgery under general anesthesia; tracheal intubation with cuffed tube. Exclusion criteria: Morbid obesity; history of allergy; history of study drugs

consumption.

Age
From **20 years** old to **50 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethic commity of Urmia University of Medical Sciences

Street address
Jahad st.

City
Urmia

Postal code

Approval date
2013-09-23, 1392/07/01

Ethics committee reference number
UMSU.REC.1392.239

Health conditions studied

1

Description of health condition studied
Laryngoscopy and intubation in elective surgery

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
HR

Timepoint
1,3, and 5 min after intubation

Method of measurement
Monitoring

2

Description
systolic BP

Timepoint
1,3, and 5 min after intubation

Method of measurement
Monitoring

3

Description
Diastolic

Timepoint
1,3, and 5 min after intubation

Method of measurement
Monitoring

Secondary outcomes

empty

Intervention groups

1

Description
Group III will receive oral pregabalin 150 mg (Sobhan) 2 h prior surgery

Category
Treatment - Drugs

2

Description
Control group will receive oral placebo 2 h before surgery

Category
Treatment - Drugs

3

Description
Group II will receive oral gabapentin 900 mg (Razak), 2h before surgery

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Imam Khomeini Hospital

Full name of responsible person

Street address

City
Urmia

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for research of ,Urmia University of Medical Sciences
Full name of responsible person
Dr. Iraj Mohebbi
Street address
Jahad st. Urmia University
City
Urmia
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 ,Urmia 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
Urmia University of Medical Sciences
Full name of responsible person
Alireza Mahoori
Position
Professor
Other areas of specialty/work
Street address
Urmia, Ershad street, Imam Khomeini Hospital
City
Urmia
Postal code
Phone
+98 44 3346 8967
Fax
Email
at_mahoori@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Urmia University of Medical Sciences
Full name of responsible person
Alireza Mahoori
Position
Professor
Other areas of specialty/work
Street address
Ershad street, Imam Khomeini Hospital
City
Urmia
Postal code
Phone
+98 443468967
Fax
Email
at_mahoori@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Full name of responsible person
Alireza Mahoori
Position
Other areas of specialty/work
Street address
City
Postal code
Phone
00
Fax
Email
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