

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

To evaluate the Efficacy of magnesium sulfate in feasibility of direct laryngoscopy in difficult exposure patients, a non-randomized trial

Protocol summary

Study aim

To evaluate the efficacy of magnesium sulfate in difficult exposure direct laryngoscopy

Design

non-randomized clinical trial

Settings and conduct

In patients who candidate for direct laryngoscopy with difficult exposure low intravenous infusion (in 1 minute by microset) of magnesium sulfate(50 mg/kg in 50 cc normal saline) and after 5 minutes re-evaluate the laryngeal difficulty exposure and recording of pulse rate and blood pressure.statistical analysis was done with SPSS version 21 and also descriptive and analytical methods.

Participants/Inclusion and exclusion criteria

inclusion criteria: Adult patients above 18 years old with difficult laryngeal exposure according to Cormack-Lehane criteria exclusion criteria:cardiovascular diseases ,arrhythmia or any underlying diseases that is contraindicated in magnesium sulfate using according to anesthesiologist evaluation

Intervention groups

Prescription of magnesium sulfate in patients with difficult laryngeal exposure

Main outcome variables

laryngeal exposure

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210712051865N1**

Registration date: **2021-09-08, 1400/06/17**

Registration timing: **prospective**

Last update: **2021-09-08, 1400/06/17**

Update count: **0**

Registration date

2021-09-08, 1400/06/17

Registrant information

Name

Kamyar Iravani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3629 1478

Email address

iravanika@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-23, 1400/07/01

Expected recruitment end date

2021-11-21, 1400/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

To evaluate the Efficacy of magnesium sulfate in feasibility of direct laryngoscopy in difficult exposure patients, a non-randomized trial

Public title

To evaluate the Efficacy of magnesium sulfate in laryngoscopy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

patients with difficult airway according to cormack-

Lehane criteria
Exclusion criteria:
cardiovascular diseases and arrhythmia and any underlying medical condition that contraindicated to magnesium sulfate using according to anesthesiologist evaluation

Age

From **18 years** old

Gender

Both

Phase

4

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shiraz University of Medical Sciences

Street address

department of otolaryngology, Khalili hospital, kalili St.

City

shiraz

Province

Fars

Postal code

7193616641

Approval date

2021-05-24, 1400/03/03

Ethics committee reference number

IR.SUMS.MED.REC.1400.127

Health conditions studied

1

Description of health condition studied

difficult exposure direct laryngoscopy

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

laryngeal exposure

Timepoint

Before intervention, After intervention

Method of measurement

According to Cormack-Lehane criteria

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Slow intravenous infusion (in 1 minute by microset) of magnesium sulfate(50 mg/kg in 50 cc normal saline) and after 5 minutes re-evaluate the laryngeal difficulty exposure and recording of pulse rate and blood pressure.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Operating room-Khalili hospital

Full name of responsible person

kamyar iravani

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Abbas Rezaeianzadeh

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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
 Shiraz 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
 Shiraz University of Medical Sciences
Full name of responsible person
 kamyar iravani
Position
 associate professor
Latest degree
 Specialist
Other areas of specialty/work
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
 Yes - There is a plan to make this available
Study Protocol
 Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
 Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
 Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
 Yes - There is a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

Part of the data can be shared after unidentified

When the data will become available and for how long

6 months after publication

To whom data/document is available

Interested researchers and clinicians in this field

Under which criteria data/document could be used

Using for research and clinical works

From where data/document is obtainable

Research and technology deputy

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

Sending an Email to research and technology deputy.

Comments