

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Success rate of laryngeal mask placement in children using one-way jaw lifting method on oxygenation status during general anesthesia

Protocol summary

Study aim

Success rate of laryngeal mask placement in children using one-way jaw lifting method on oxygenation status during general anesthesia

Design

This study is a randomized clinical trial with control and intervention groups in which the groups are parallel; In this study, 30 children will be randomly divided into two groups and there will be no blinding in the study.

Settings and conduct

In this study, blindness will not be performed and patients, including children aged 2 to 10 years, in the Children's Hospital (Tabriz) after random assignment to control and intervention groups, will be subjected to LMA implantation in two classic methods and unilateral jaw lift. .

Participants/Inclusion and exclusion criteria

Inclusion criteria include: non-emergency surgery candidate and exclusion criteria include: congenital anomalies, cleft palate, patients in need of emergency surgery, patients with gastrointestinal problems.

Intervention groups

For patients in the control group (classic LMA implantation by classical method) will be performed by a skilled anesthesiologist and for patients in the intervention group (unilateral jaw raising, anesthesiologist with unilateral maneuvering maneuver) will perform LMA implantation.

Main outcome variables

The use of LMA placement for mechanical ventilation of ginseng is anesthesia and in this study, a new method will be introduced to improve ventilation and oxygenation.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190325043107N17**

Registration date: **2020-08-03, 1399/05/13**

Registration timing: **prospective**

Last update: **2020-08-03, 1399/05/13**

Update count: **0**

Registration date

2020-08-03, 1399/05/13

Registrant information

Name

Mehdi Khanbabayi Gol

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 41 3334 7054

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-08-20, 1399/05/30

Expected recruitment end date

2021-02-18, 1399/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Success rate of laryngeal mask placement in children using one-way jaw lifting method on oxygenation status during general anesthesia

Public title

Successful placement of laryngeal mask in children

IR.TBZMED.REC.1399.407

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Candidate for non-emergency surgery

Exclusion criteria:

Congenital anomalies Cleft palate Patients in need of emergency surgery Patients with digestive problems

Age

From **2 years** old to **10 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

All participants will be randomly divided into two modes of intervention and control with the help of online statistical software (www.randomizer.org). In this method, a profile will be designed for the study and the people who will enter the study will be written in the people participating in the study and the software will randomly enter that person in one of the two intervention or control groups.

Blinding (investigator's opinion)

Not 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 Tabriz University of Medical Sciences

Street address

Imam Reza Hospital, Azadi Ave

City

Tabriz

Province

East Azarbaijan

Postal code

5165665631

Approval date

2020-07-20, 1399/04/30

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

Intubation

ICD-10 code

T88.4

ICD-10 code description

Failed or difficult intubation

Primary outcomes

1

Description

Oxygenation

Timepoint

Every minute for ten minutes

Method of measurement

Viewed by an anesthesiologist

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: After induction of anesthesia and the right time to insert the LMA, the left hand lifts the lower jaw from one side by performing a JT maneuver, then puts the laryngeal mask in the mouth and pushes it down, and after confirming that it is fixed in place. Proves.

Category

Treatment - Devices

2

Description

Control group: Embedding LMA in this group will be a classic method. The anesthetized patient's head is extended with one hand and the proximal part of the LMA is held in the hand and enters the patient's mouth with the slit surface toward the base of the tongue, then pushed down until resistance is felt. Don't be. The dominant hand is then pushed with the finger guide. Before removing the finger from the patient's mouth, remove the non-dominant hand from under the patient's head and hold the LMA so that it does not move, and then we will fix it.

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Childrens Hospital

Full name of responsible person

Masoud Patish

Street address

Sheshgelan Ave, Childrens Hospital

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Tabriz

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Abolghasem Jouyban

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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

Tabriz University of Medical Sciences

Proportion provided by this source

50

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**

Tabriz University of Medical Sciences

Full name of responsible person

Masoud Parish

Position

Associate Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Position

MSc in Nursing Education

Latest degree

Master

Other areas of specialty/work

Nursery

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Person responsible for updating data

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information

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

Undecided - It is not yet known if there will be 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