

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparing Magnet and Magill forceps in succes of nasal intubation of children

Protocol summary

Study aim

The overall purpose of this trial is to compare the use of Magnet with Magill forceps in success rate of children's nasal intubation. Specific puposes of the project include: 1) Measure the duration of intubation in both groups. 2) Compare the number of attempts to intubate between the two groups. 3) Determine changes in vital signs during intubation between the two groups.

Design

Clinical trials with control groups, with parallel groups,not blinded and randomized

Settings and conduct

The study will be conducted in the operating rooms of Tabriz Children's Hospital. Intubation in both groups is performed by expert anesthesiologist at children's anesthesia and the time of intubation will be also recorded by a second anesthetist in the questionnaire. The questionnaire contains basic patient information including sex, weight, age, vital signs and other variables

Participants/Inclusion and exclusion criteria

Entry requirements include children aged 3 to 10 years old - ASA I, II - adenotonsillectomy candidates and non-entry conditions including underlying illness (cardiovascular, renal, coagulopathy), maxillofacial anomalies - past difficult airway history and parents' dissatisfaction .

Intervention groups

Patients in both groups will receive 2 µg / kg fentanyl, 1mg midazolam, 0.5mg / kg atracurium, 1mg / kg lidocaine, 3.5-4.5 mg / kg propofol and anesthetized, after dripping 2-3 drops of phenylephrine in the nasal hole the endotracheal tube will be impregnated with lidocaine gel and inserted to the nasopharynx. After laryngoscopy in the first group, Magill forceps and in the second group the Magnet will be used to guide the tube to trachea.

Main outcome variables

Age ; Weight ; Gender; Blood pressure ; Heart Rate ; O2

saturation; Number of attempts to intubate; Intubation time

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20100527004041N17**

Registration date: **2019-07-23, 1398/05/01**

Registration timing: **prospective**

Last update: **2019-07-23, 1398/05/01**

Update count: **0**

Registration date

2019-07-23, 1398/05/01

Registrant information

Name

Mahin Seyedhejazi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3385 2252

Email address

seidhejazie@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-08-23, 1398/06/01

Expected recruitment end date

2019-09-11, 1398/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Comparing Magnet and Magill forceps in succes of nasal intubation of children

Public title
using magnet for nasotracheal intubation

Purpose
Other

Inclusion/Exclusion criteria
Inclusion criteria:
 3-10 years old ASA I,II adenotonsillectomy surgery candidate
Exclusion criteria:
 underlying disease(cardio-vascular,renal,coagulopathy) maxillofacial anomalies previous difficult airway parental assent

Age
From **3 years** old to **10 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

Randomization description
patients are classified randomly in two groups of intervention and control based on the form in randomization site.

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
 Ethic committee of university, Research Vice chancellor of Tabriz University of Medical Sciences , Tabriz University of Medical Sciences, Daneshgah Street, Tabriz.Iran

City
Tabriz
Province
 East Azarbaijan
Postal code
 5166614711
Approval date
 2019-05-06, 1398/02/16
Ethics committee reference number
 IR.TBZMED.REC.1398.127

Health conditions studied

1

Description of health condition studied
 nasal intubation in pediatrics
ICD-10 code
ICD-10 code description

2

Description of health condition studied
 adenotonsillectomy
ICD-10 code
 J35.3
ICD-10 code description
 Hypertrophy of tonsils with hypertrophy of adenoids

Primary outcomes

1

Description
 intubation duration
Timepoint
 during intubation
Method of measurement
 watch

2

Description
 number of attempts to intubate
Timepoint
 during intubation
Method of measurement
 counting

3

Description
 Changes in vital signs
Timepoint
 before induction ; after induction ; after intubation
Method of measurement
 pulse oximeter ; cardiac monitoring blood pressure cuff

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1 : Patients in both groups will receive 2 µg / kg fentanyl, 1mg midazolam, 0.5mg / kg atracurium, 1mg / kg lidocaine, 3.5-4.5 mg / kg propofol and anesthetized, after dripping 2-3 drops of phenylephrine in the nasal hole the endotracheal tube will be impregnated with lidocaine gel and inserted to the nasopharynx. After laryngoscopy in the first group, Magill forceps will be used to guide the tube to trachea.

Category

Other

2

Description

Intervention group: Patients in both groups will receive 2 µg / kg fentanyl, 1mg midazolam, 0.5mg / kg atracurium, 1mg / kg lidocaine, 3.5-4.5 mg / kg propofol and anesthetized, after dripping 2-3 drops of phenylephrine in the nasal hole the endotracheal tube will be impregnated with lidocaine gel and inserted to the nasopharynx. After laryngoscopy in the second group the Magnet will be used to guide the tube to trachea.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

operating room, Tabriz Children Hospital

Full name of responsible person

Dr. Mahin Seyedhejazi

Street address

Sheshgelan St , Tabriz Children Hospital, Tabriz city

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kodakanhospital@tbzmed.ac.ir

Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr.Abolghasem Jouyban

Street address

3rd floor, 2th central building , Tabriz university of medical sciences, Golgasht st, Tabriz

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Web page address

<https://researchvice.tbzmed.ac.ir/>

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

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

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mahin Seyedhejazi

Position

Associate Professor Of Anesthesia

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Latest degree
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Other areas of specialty/work
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Person responsible for updating data

Contact

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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

No - There is not 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

A portion of the data that represents the final outcome

When the data will become available and for how long

Access will be 6 months after the results are printed.

To whom data/document is available

All Physicians and residents of the department of Anesthesia

Under which criteria data/document could be used

After obtaining permission from the deputy research of group

From where data/document is obtainable

Person responsible for scientific accountability of study

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

First approved by the Research Vice-President

Comments