Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Placing a Naso Gastric Tube (NGT) with a Rope wire guid in Unconscious patients with an endotracheal tube

Protocol summary

Study aim
Increase the success rate of the Naso Gastric tube insertion

Design
Two arm parallel group randomised trial and outcome assessment in 130 patients

Settings and conduct
This study was carried out at Sina Hospital affiliated to the University of Tehran in anesthetized patients who have an endotracheal tube and are needed to the NG tube.

Participants/Inclusion and exclusion criteria
incusion criteria ,All patients with an endotracheal tube and for any reason need an NG tube Any obstruction in nostril, nasopharynx and coaglopathy was excluded

Intervention groups
All patients have anesthetized and reduced consciousness that have an endotracheal tube and need nNG tube. They are divided into two groups of intervention and control. In intervention group after lubrication the intrance of NG tube a bowden wire inserted into the tube until the end then the nostril was lubricated with jel passing the NG tube through the nose and reching to the hypopharynx some one do the jow trust and we try to pass the NG through the esophagous untill first line on NG rech to the nostril,at this time another person began to withdrow bowden wire and We will continue to insert the tube to the required location In the control group, these steps are carried out without putting Bowden wire

Main outcome variables
The time spent on putting NG Number of attempts to place NG The occurrence of any complications during the delivery of NG

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20130304012695N4**
Registration date: **2020-06-23, 1399/04/03**
Registration timing: **retrospective**

Last update: **2020-06-23, 1399/04/03**
Update count: **0**

Registration date
2020-06-23, 1399/04/03

Registrant information

Name
mohammadreza khajavi

Name of organization / entity

Country
Iran (Islamic Republic of)

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+98 21 6312 1220

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khajavim@tums.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-01-30, 1397/11/10

Expected recruitment end date
2019-09-24, 1398/07/02

Actual recruitment start date
2019-02-09, 1397/11/20

Actual recruitment end date
2020-02-09, 1398/11/20

Trial completion date
2020-02-24, 1398/12/05

Scientific title
Placing a Naso Gastric Tube (NGT) with a Rope wire guid in Unconscious patients with an endotracheal tube

Public title

NG tube insetion with guide wire

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

All intubated patients that need NG tube

Exclusion criteria:

Any deformity in nostril and obstruction in nasopharynx

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **130**

Actual sample size reached: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

To randomize patients with inclusion criteria Block balanced randomization is used.Before studying, one of the person who is not a member of the research team performs the randomization process by using Random generator software, forms four blocks for the intervention and control group. The complete cards of the four blocks are given to the head of the operating room, who is unaware of the study, in an envelope. A card is given to the patient after patient entrance to operating room.

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 school of medicine tehran university of medical sciecences

Street address

sina hospital-hasan abad sq-emam khomeni st.

City

Tehran

Province

Tehran

Postal code

1136746911

Approval date

2018-10-06, 1397/07/14

Ethics committee reference number

IR.TUMS.MEDICINE.REC.1397.456

Health conditions studied

1

Description of health condition studied

Gastrointestinal diseases

ICD-10 code

K31.9

ICD-10 code description

Disease of stomach and duodenum, unspecified

Primary outcomes

1

Description

Number of times and time spent on NG placement

Timepoint

At the same time that we carry out the procedure

Method of measurement

The length of time that NG passes through the nose tip to reach the stomach

Secondary outcomes

1

Description

Number of failures

Timepoint

During insertion of NG tube

Method of measurement

If the NG tube does not enter the stomach and we do not hear the sound of air passing through the stomach

2

Description

Complications such as bleeding or insertion of tube to trachea

Timepoint

During insertion of NG tube

Method of measurement

Existence of blood in the throat or nose and hearing breathing sounds from the NG tube

Intervention groups

1

Description

Intervention group: The placement of a NG tube in patients with an endotracheal tube is examined by a special guide called rope wire, which is inserted into the NG tube and the speed of passage from nose, nasopharynxand esophagus Will be evaluated. The speed of NG placement without guide wire Will be evaluated

Category
Treatment - Devices

2

Description
Control group: The gastric tube is passed through the nose without a guide wire, and after the tube reaches the throat, the mandible is pulled up to facilitate insertion of the tube to esophagus then the time of passage of the tube and placement in the stomach and the success rate of this method in correct placement of the tube in the stomach will be evaluated
Category
Treatment - Devices

Recruitment centers

1

Recruitment center
Name of recruitment center
Sina Hospital
Full name of responsible person
Mohammad Reza khajavi
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Sina Hospital Hassan Abad sq, Emmam Khomini st.
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
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Full name of responsible person
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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
Tehran 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
Tehran University of Medical Sciences
Full name of responsible person
Mohammad Reza Khajavi
Position
professor of anesthesiology
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
Yes - There is a plan to make this available
Statistical Analysis Plan
No - There is not 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
Not applicable
Title and more details about the data/document
The results of the main study data
When the data will become available and for how long
6 month
To whom data/document is available
University and industry researchers
Under which criteria data/document could be used
Share experiences
From where data/document is obtainable
Dr. Khajavi e-mail address
What processes are involved for a request to access data/document
Requested by email respons within a week
Comments