

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jun 2026

Comparison of success rate of nasogastric intubation using a Nelaton catheter with conventional method of intubation in the patients under anesthesia

Protocol summary

Summary

The aim of this study is to find a new method for nasogastric intubation. For this purpose, 80 patients who are candidate for elective abdominal surgery and need nasogastric intubation will be randomly allocated into two groups. In the control group, the nasogastric tube will be inserted by conventional method with the head of the patients in neutral position after induction of anesthesia. In intervention group, a Nelaton catheter will be lubricated and inserted through the first proximal hole into the end of nasogastric tube. Then, the tube which have been equipped with a Nelaton catheter will be introduced via a nostril and advanced through the nares and oropharynx into the esophagus with the head of patients in flexion position after induction of anesthesia. The success of nasogastric intubation will be confirmed by injection of 10 ML air into the tube and auscultation of epigastrium for air entrance. Success rate of the first trial will be recorded as the primary outcome measure.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112023379N2**

Registration date: **2011-12-20, 1390/09/29**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-12-20, 1390/09/29

Registrant information

Name

Mehdi Ghaemi

Name of organization / entity

Zanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

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mahiar@zums.ac.ir

Recruitment status

Recruitment complete

Funding source

Zanjan university of medical sciences

Expected recruitment start date

2011-12-06, 1390/09/15

Expected recruitment end date

2012-03-05, 1390/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of success rate of nasogastric intubation using a Nelaton catheter with conventional method of intubation in the patients under anesthesia

Public title

Comparison of success rate of nasogastric intubation using a Nelaton catheter with conventional method of intubation in the patients under anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: the patients who are candidate for elective abdominal surgery and need nasogastric intubation, class 1&2 ASA classification and age between

18 to 80 years Exclusion criteria: abnormal airway, difficult intubation, coagulopathy, esophagus disease and morbid obesity

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

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

Zanjan University of Medical Sciences

Street address

Azadi square

City

Zanjan

Postal code

4515613191

Approval date

2011-11-27, 1390/09/06

Ethics committee reference number

01-115-09/90

Health conditions studied

1

Description of health condition studied

Nasogastric intubation

ICD-10 code

k31.9

ICD-10 code description

Disease of stomach and duodenum,unspecified

Primary outcomes

1

Description

Success of nasogastric intubation

Timepoint

once- After induction of anesthesia and nasogastric tube insertion

Method of measurement

Injection of 10 ML air by gastric tube and auscultation of epigastrium

Secondary outcomes

1

Description

Tube coiling inside the oral cavity

Timepoint

once- After insertion of tube into nares

Method of measurement

observation of oral cavity

Intervention groups

1

Description

Intervention group: Nasogastric intubation using a tube which have been equipped with a Nelaton catheter in the neck flexion position under anesthesia

Category

Treatment - Drugs

2

Description

Control group: Nasogastric intubation by conventional method in neutral position of the neck and head under anesthesia

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Valeiaser Hospital

Full name of responsible person

Dr. Mehdi ghaemi

Street address

Fazlollah Noori Avenue

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Zanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

ZAnjan University of Medical sciences

Full name of responsible person

Dr. mohammadreza seraj Sadeghi

Street address

Azadi Square

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Zanjan

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

ZAnjan 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**

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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