

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jul 2026

Comparison of nasogastric tube insertion by SORT maneuver and neck flexion lateral pressure in critically ill patients admitted to ICU.

Protocol summary

Study aim

comparison of nasogastric tube (NGT) insertion by SORT maneuver compared to neck flexion lateral pressure in critically ill patients admitted to ICU

Design

Clinical trial with intervention and control groups, with parallel groups, Double-blind, randomized trial

Settings and conduct

All patients admitted to ICUs of Shohada and Imam Reza Hospitals , who are undergoing mechanical ventilation and require the insertion of NGT, will be included in this study. Patients will randomly be assigned to intervention and control groups to compare NGT insertion with SORT method and standard insertion method in these patients. Participants and the person who will analyze the data collected during the study will be kept blind to study groups.

Participants/Inclusion and exclusion criteria

Inclusion criteria: age over 18 years old, need for NGT placement Exclusion criteria: coagulopathy, skull base fracture, neck trauma, nose pathology

Intervention groups

Intervention group: NGT insertion by SORT method
Control group: NGT insertion by Neck flexion lateral pressure method

Main outcome variables

The success of insertion of NGT

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20091012002582N18**

Registration date: **2018-03-13, 1396/12/22**

Registration timing: **registered_while_recruiting**

Last update: **2018-03-13, 1396/12/22**

Update count: **0**

Registration date

2018-03-13, 1396/12/22

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-20, 1396/12/01

Expected recruitment end date

2019-03-20, 1397/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of nasogastric tube insertion by SORT maneuver and neck flexion lateral pressure in critically ill patients admitted to ICU.

Public title

Comparison of two different methods for insertion of nasogastric tube in critically ill patients admitted to intensive care unit

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age over 18 years old Need for NGT insertion

Exclusion criteria:

Coagulopathy Skull base fracture Neck trauma Nasal pathology

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Data analyser

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly assigned into two groups by block randomization. Randomization is done based on the Grav O tron2.0 software.

Blinding (investigator's opinion)

Double blinded

Blinding description

In this study, the participants and the individual who analyzed the data collected during the study were kept blind to the study groups.

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

Central Building No. 2, Tabriz University of Medical Sciences, Golghast St,

City

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Province

East Azarbaijan

Postal code

5166615953

Approval date

2017-12-26, 1396/10/05

Ethics committee reference number

IR.TBZMED.REC.1396.839

Health conditions studied

1

Description of health condition studied

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The success of insertion of NGT

Timepoint

After insertion of NGT

Method of measurement

Gastric auscultation after air injection

Secondary outcomes

1

Description

Time of NGT insertion

Timepoint

From the insertion of NGT to determining the correctness of the location

Method of measurement

Time taken from the insertion of NGT to determining the correctness of the location

Intervention groups

1

Description

Intervention group: NGT insertion with SORT method

Category

Treatment - Devices

2

Description

Control group: NGT insertion with neck flexion lateral pressure

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada hospital

Full name of responsible person

Ata Mahmoodpoor

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2

Recruitment center

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Sponsors / Funding sources

1

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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
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
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

No - There is not 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

Study will be reported as paper

When the data will become available and for how long

Not applicable

To whom data/document is available

Not applicable

Under which criteria data/document could be used

Not applicable

From where data/document is obtainable

Not applicable

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

Not applicable

Comments