

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Comparison effects the Endotracheal suctioning with three methods,with installing normal saline serum,Installing N-acethylcycteine and without those on physiologic parameters and Amount of secretions at intubated patients hospitalized in intensive care units

Protocol summary

Summary

This clinical trial with aims comparison effects the endotracheal suctioning with three methods, with installing normal saline serum, installing N-acethylcycteine and without those on physiologic parameters and amount of secretions at intubated patients hospitalized in intensive care units. With convenient sampling method on 54 patients will be randomly assigned. In all cases all three suction with saline without and with N-acetylcycteine are implicated. Inclusion criteria: age over 15 years old, with an endotracheal tube; the increased intracranial pressure; hemodynamic status fixed without severe heart failure; chronic obstructive pulmonary disease and had no other history of drug addiction. Exclusion criteria: existence tracheostomy tube; use of inotropic drugs; application of broncoscopy; septic shock; application of endotracheal suctioning in at least 2 hours. Blood pressure, heart rate, respiratory rate and oxygen saturation measure and record at before, two and five minutes after of each method suctioning by standard monitoring apparatus. Amount of secretion measure and record after of each method suctioning. All patients receive 100% oxygen before and after each suction.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201303115866N7**
Registration date: **2013-04-12, 1392/01/23**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-04-12, 1392/01/23

Registrant information

Name

Akram Sanagoo

Name of organization / entity

Golestan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Research and technology deputy Golestan University Of Medical Sciences, Gorgan, Iran

Expected recruitment start date

2013-03-14, 1391/12/24

Expected recruitment end date

2013-07-21, 1392/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison effects the Endotracheal suctioning with three methods,with installing normal saline serum,Installing N-acethylcycteine and without those on physiologic parameters and Amount of secretions at intubated patients hospitalized in intensive care units

Public title

Comparison effects the Endotracheal suctioning with three methods,with installing normal saline serum,Installing N-acethylcycteine and without those on physiologic parameters and Amount of secretions at intubated patients

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients older than 15 years old; patient without intra cranial pressure; hemodynamics stability; patient without chronic obstruction pulmonary disease; patient without addiction; patient with Endotracheal tube; patient without severe heart failure. Exclusion criteria: existence tracheostomy tube; use of inotropic drugs; application of bronchoscopy; septic shock; application of endotracheal suctioning in at least 2 hours.

Age

From **15 years** old to **149 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **54**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Golestan University of Medical Sciences

Street address

Shastkola Road

City

Gorgan

Postal code

49165568

Approval date

2013-02-17, 1391/11/29

Ethics committee reference number

29459111291

Health conditions studied

1

Description of health condition studied

Symptoms, signs and abnormal clinical and laboratory findings

ICD-10 code

R00-R99

ICD-10 code description

Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified

Primary outcomes

1

Description

Saturation of O2

Timepoint

Before suction, 2 and 5 minutes after suction

Method of measurement

Pulse oximetry

2

Description

Blood pressure

Timepoint

Before suction, 2 and 5 minutes after suction

Method of measurement

Sphygmomanometer

3

Description

Pulse rate

Timepoint

Before suction, 2 and 5 minutes after suction

Method of measurement

Enumeration

4

Description

Respiratory rate

Timepoint

Before suction, 2 and 5 minutes after suction

Method of measurement

Enumeration

Secondary outcomes

empty

Intervention groups

1

Description

All three methods are used in all patients the first time suction with saline; if need suction, 3 cc of sterile saline

and then using a suction catheter of the endotracheal tube, the patient is suctioned.

Category

Prevention

2

Description

In the second round, if necessary, this time without the use of normal saline and then suctioning using

Category

Treatment - Drugs

3

Description

If you need to suction the third time, the amount of liquid 2 ml - 2 ml pulled acetylcysteine in patients endotracheal tube is then suctioned.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Beheshti Teaching Hospital

Full name of responsible person

Nad Ali Akbaryan

Street address

Beheshti and rohani and yahyanejad Teaching Hospital

City

Baboll

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Deputy of Golestan University Of Medical Sciences, Gorgan, Iran

Full name of responsible person

Mohammad Jafar Gotalipour

Street address

Golestan University of Medical Sciences, Shastkola

City

Gorgan

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Research Deputy of Golestan University Of Medical Sciences, Gorgan, Iran

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

Golestan University of Medical Sciences

Full name of responsible person

Akram Sanagoo

Position

Assosiate professor

Other areas of specialty/work

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Person responsible for updating data

Contact

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