Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 hospitalizated 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-acetylcysteine 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 hospitalizated 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 broncoscopy; 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
Befor suction, 2 and 5 minutes after suction
Method of measurement
Pulse oximetry

2

Description
Blood pressure
Timepoint
Befor suction, 2 and 5 minutes after suction
Method of measurement
Sphygmomanometer

3

Description
Pulse rate
Timepoint
Befor suction, 2 and 5 minutes after suction
Method of measurement
Enumeration

4

Description
Respiratory rate
Timepoint
Befor 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 Golalipour

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