

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

The comparison between early tracheostomy and orotracheal intubation in critically ill COVID-19 patients.

Protocol summary

Study aim

The outcome assessment of the early tracheotomy and orotracheal intubation in COVID-19 patients.

Design

Two arm parallel group without blinding and randomization

Settings and conduct

The study conducted on the total confirmed COVID-19 patients using the Polymerase Chain Reaction (PCR) technique and radiologic studies that admitted in the ICU centers of a tertiary hospital during one month. All patients required invasive ventilation. The patients categorized into two groups according to methods of airway management and divided randomly into the groups. Data analyzed using statistical package for social sciences (SPSS) version 18 (SPSS Inc. Chicago, IL, USA) for windows.

Participants/Inclusion and exclusion criteria

All patients required invasive ventilation.

Intervention groups

The early tracheotomy is conduction of tracheotomy surgery within at least 3 days from orotracheal intubation. The orotracheal intubation is the insertion of an endotracheal tube through the mouth and into the trachea.

Main outcome variables

Mortality rate

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180129038542N1**

Registration date: **2020-04-13, 1399/01/25**

Registration timing: **retrospective**

Last update: **2020-04-13, 1399/01/25**

Update count: **0**

Registration date

2020-04-13, 1399/01/25

Registrant information

Name

Shahriar Najafizadeh-Sari

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 21 7735 6335

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-04-06, 1399/01/18

Expected recruitment end date

2020-04-12, 1399/01/24

Actual recruitment start date

2020-04-06, 1399/01/18

Actual recruitment end date

2020-04-12, 1399/01/24

Trial completion date

2020-04-13, 1399/01/25

Scientific title

The comparison between early tracheostomy and orotracheal intubation in critically ill COVID-19 patients.

Public title

Early tracheostomy in COVID-19

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

The critically ill patients who were required mechanical ventilation

Exclusion criteria:

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **30**
Actual sample size reached: **30**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
The other similar studies are about the patients who required mechanical ventilation with many different conditions such as severe head trauma, acute respiratory distress syndrome, traumatic patients, etc. This is the first study about early tracheostomy and intubation in critically ill patients with COVID-19.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Baqiyatallah University of Medical Sciences

Street address

No.5, West Mollasadra st., Vanak Sq., Baqiyatallah Hospital, Department of Surgery

City

Tehran

Province

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Postal code

1655889874

Approval date

2020-04-05, 1399/01/17

Ethics committee reference number

IR.BMSU.REC.1399.055

Health conditions studied

1

Description of health condition studied

COVID-19
ICD-10 code
U07.1
ICD-10 code description
COVID-19

Primary outcomes

1

Description

The oxygen blood saturation

Timepoint

Every 12 hours from the first day of hospitalization to the last day

Method of measurement

The pulse oximetry

2

Description

Respiratory rate

Timepoint

0-1-2-3-4-7-14 days after starting intervention

Method of measurement

Counting the number of breaths per minute

3

Description

The mortality rate

Timepoint

10, 20 days after starting intervention

Method of measurement

Counting deaths

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Patients in this group received medications for the treatment of COVID-19 based on the Fifth Edition of the Novel Corona Virus Guidelines, in addition they indicated for mechanical ventilation and the airway management was selected using the tracheotomy tube within 3 days from intubation.

Category

Treatment - Surgery

2

Description

Control group: Patients in this group received medications for the treatment of COVID-19 based on the Fifth Edition of the Novel Corona Virus Guidelines, in addition they indicated for mechanical ventilation and the airway management was selected using the Orotracheal tube.

Category

Treatment - Devices

Recruitment centers**1****Recruitment center****Name of recruitment center**

Baqiyatallah hospital

Full name of responsible person

Shahriar Najafizadeh

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Vanak sq., Mollasadra St., Baqiyatallah university of medical sciences

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

The University of Baqiyatallah

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?**

No

Title of funding source

Early Tracheotomy in COVID-19

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**

Bagheiat-allah University of Medical Sciences

Full name of responsible person

Shahriar Najafizadeh

Position

Consultant

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Full name of responsible person

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Researcher

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

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

make this available

Statistical Analysis Plan

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

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

Undecided - It is not yet known if there will be 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

After the completion of the study, the information on the main outcome will be shared.

When the data will become available and for how long

6 months after printing

To whom data/document is available

All researchers can take action.

Under which criteria data/document could be used

Data and results will be available to all researchers for research on COVID-19.

From where data/document is obtainable

Dr.najafi73@yahoo.com

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

The data will be provided to the applicant after a review and approval of the request within a month.

Comments