

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of intubation with simple endotracheal tube, evac tube and bactiguard tube on incidence of Ventilator-Associated Pneumonia

Protocol summary

Summary

The main side effects for intubated patients who hospitalized is ventilator associated pneumonia. The main objective of this study is to find the incidence of ventilator associated pneumonia after using three different devices that are Simple endotracheal tube, Evac tube and bactiguard tube. In this study, 180 intubated patients without being diagnosed with pneumonia will choose randomly in emergency department in Loghman hospital. We will divide intubated patients into three groups. We will use simple endotracheal tube for the first one, bactiguard endotracheal tube for second one and Evac endotracheal tube for the third one, for all groups under the study, we will aspirate sub glottal parts each 3 hours, 3 days after starting the intubation, we will send samples to laboratory for getting culture. All three groups will examine daily for finding pneumonia. If it needs further investigation, we will order chest x ray then we will categorized patients based on the clinical pulmonary infection score. Finally results those of three groups will be compared for analyzing.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016111430895N1**

Registration date: **2016-12-15, 1395/09/25**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-12-15, 1395/09/25

Registrant information

Name

Siamak Moghadam zadeh

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2665 1843

Email address

hajar.dehghan84@gmail.com

Recruitment status

Recruitment complete

Funding source

Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2016-11-21, 1395/09/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of intubation with simple endotracheal tube, evac tube and bactiguard tube on incidence of Ventilator-Associated Pneumonia

Public title

Comparison of three types of endotracheal tubes on incidence of pneumonia

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: all intubated patients that stay more than 48 hours at Loghman Hakim Hospital
exclusion criteria: expired or extubated patients before 48 hours

Age

No age limit

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **180**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shahid Beheshti University of Medical Sciences

Street address

Shahid Beheshti University of Medical Sciences,
Velenjak

City

Tehran

Postal code

Approval date

2010-05-22, 1389/03/01

Ethics committee reference number

26653785

Health conditions studied

1

Description of health condition studied

pneumonia

ICD-10 code

J67-J70

ICD-10 code description

pneumonitis, due to external agents

Primary outcomes

1

Description

pneumonia

Timepoint

every 6 hours

Method of measurement

clinical and laboratory exams

Secondary outcomes

empty

Intervention groups

1

Description

simple endotracheal tubes in control group

Category

Prevention

2

Description

bactiguard endotracheal tubes in first prevention group

Category

Prevention

3

Description

Evac endotracheal tubes in second prevention group

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Loghman Hakim Hospital

Full name of responsible person

Siamak Moghadamzadeh

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Siamak Moghadamzadeh

Street address

Loghman Hakim Hospital

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Beheshti 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**

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Siamak Moghadamzadeh

Position

Residence of Emergency Medicine

Other areas of specialty/work**Street address**

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Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Siamak Moghadamzadeh

Position

Residence of Emergency Medicine

Other areas of specialty/work**Street address**

Loghman Hakim Hospital

City

Tehran

Postal code**Phone**

00

Fax**Email****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

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

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Mehrdad Taghizadeh

Position

Assistance professor

Other areas of specialty/work**Street address**

Loghman Hakim Hospital, Lashkar Square, Makhsus