

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 May 2026

Comparison of Bactiguard endotracheal tubr to Taperguard endotracheal tube in decreasing ventilator associated pneumonia in critically ill patients admitted to intensive care unit

Protocol summary

Summary

The aim of this study is to determine and compare the incidence of pneumonia in patients under mechanical ventilation and intubated with Bactiguard versus Taperguard endotracheal tube in intensive care unit. A total of 90 critically ill patients over 18 years wpected to be intubated patients for more than 72 hours, not transferred from another hospital and without the history of mechanical ventilation, will be recruited. Patients will be randomly divided into two groups. One group will be intubated with Taperguard tracheal tube and the other group will be intubated with Bactiguard endotracheal tube. In both groups, the necessary actions will be done to prevent ventilator-associated pneumonia (VAP). All of these patients will be daily monitored regarding the development of VAP, treated in case of VAP and assessed until discharge from the ICU or death.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201601242582N13**

Registration date: **2016-02-16, 1394/11/27**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2016-02-16, 1394/11/27

Registrant information

Name

Ata Mahmoodpoor

Name of organization / entity

Tabriz University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research deputy of Tabriz University of Medical Sciences

Expected recruitment start date

2016-04-03, 1395/01/15

Expected recruitment end date

2017-09-06, 1396/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Bactiguard endotracheal tubr to Taperguard endotracheal tube in decreasing ventilator associated pneumonia in critically ill patients admitted to intensive care unit

Public title

Comparison of two types of endotracheal tube in decreasing ventilator associated pneumonia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All patients older than 18 years old requiring mechanical ventilation for more than three days. Exclusion criteria: transfer from another hospital with a history of mechanical ventilation, pregnancy, HIV, tumor or malignancy, immunosuppressive therapy and leukocyte counts less than 1000 / mm³

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Tabriz University of Medical Sciences

Street address

Golgasht street

City

Tabriz

Postal code**Approval date**

2016-01-04, 1394/10/14

Ethics committee reference number

TBZMED.REC.1394.879

Health conditions studied**1****Description of health condition studied**

pneumonia

ICD-10 code

J15.9

ICD-10 code description

Bacterial pneumonia, unspecified

Primary outcomes**1****Description**

Ventilator Associated Pneumonia

Timepoint

daily untill ischarge

Method of measurement

clinical signs

Secondary outcomes**1****Description**

ICU lenthth of stay

Timepoint

daily

Method of measurement

count

2**Description**

Duration of mechanical ventilation

Timepoint

daily

Method of measurement

count

3**Description**

Mortality

Timepoint

daily

Method of measurement

count

Intervention groups**1****Description**

One group will be intubated with Bactiguard tracheal tube. Size of the tracheal tube will be chosen by the diagnosis of the anesthesiologist and routinely will be 7-7/5 for women and 8 -8/5 for men.

Category

Treatment - Other

2**Description**

One group will be intubated with Taperguard tracheal tube. Size of the tracheal tube will be chosen by the diagnosis of the anesthesiologist and routinely will be 7-7/5 for women and 8 -8/5 for men.

Category

Treatment - Other

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

ICU of Shohada hospital

Full name of responsible person

Ata Mahmoodpoor

Street address

Shohada Hospital, Elgoli street

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

Research deputy of Tabriz University of Medical Sciences

Full name of responsible person

Afshin Ghlehgolab

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Tabriz University of Medical Sciences, Golgasht street

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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

Research deputy of Tabriz 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**

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Position

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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*