Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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 wxpected 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

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Name of organization / entity

Tabriz University of Medical Sciences

Country

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 lenghth 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
City
Tabriz

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
City
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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

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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