

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

Effect of the education program on nurses' knowledge and performance in the endotracheal tube cuff management

Protocol summary

Summary

This study is a randomized and single blind study which aims to examine the effect of educational program on nurses' knowledge and practice in management of tracheal tube cuff in intensive care unit patients. Subjects will be selected from four hospitals in Tehran, Iran including Imam Khomeini, Sina, Dr, Shariati and Rasool Akram. Subjects are intubated patients and nurses form intensive care units. Inclusion criterion for nurses is work experience in intensive care units at least for one-year. In addition, inclusion criteria for patients are age over 18-year old; having endotracheal tube for more than 48 hours; having no injuries or damage in face and neck; having no tumors in the respiratory tract and stable hemodynamic conditions. The intervention is an educational program about endotracheal cuff management. The content will provide to subjects in lecture and written material. Nurses' knowledge and practice will be measured two weeks before and after education through self-designed questionnaire and check list. It is expected that educational program will increase awareness and improve performance and reduce complications of endotracheal tube cuff may lead nurses.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013112615560N1**
Registration date: **2013-12-25, 1392/10/04**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-12-25, 1392/10/04

Registrant information

Name

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Name of organization / entity

TUMS

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Recruitment status

Recruitment complete

Funding source

Nursing Faculty of Tehran University of Medical Sciences

Expected recruitment start date

2013-12-07, 1392/09/16

Expected recruitment end date

2014-01-06, 1392/10/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of the education program on nurses' knowledge and performance in the endotracheal tube cuff management

Public title

Effect of education in endotracheal tube cuff management

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion for nurses: working experience in intensive care units at least for one-year. Inclusion criteria for patients are age over 18-year old; having endotracheal tube for more than 48 hours; having no

injuries or damage in face and neck; having no tumors in the respiratory tract and stable hemodynamic conditions. Exclusion criterias for nurses are leave a job or retirement along sampling (before and after intervention), and for patients are death or weaning from endotracheal tube.

Age

From **18 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

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

Tehran University of Medical Sciences

Street address

tehran medisine university- poor sina Ave- keshavarz
Bolvd- tehran-Iran

City

tehran

Postal code

Approval date

2013-08-07, 1392/05/16

Ethics committee reference number

827

Health conditions studied

1

Description of health condition studied

Tracheal tube cuff

ICD-10 code

Y70

ICD-10 code description

Anaesthesiology devices associated with adverse incidents

Primary outcomes

1

Description

Awareness

Timepoint

2 weeks before and after intervention

Method of measurement

Self-designed awareness questionner

2

Description

Performance

Timepoint

2 weeks before and after intervention

Method of measurement

Self reporting/ self-designed performance check list

Secondary outcomes

1

Description

Tracheal tube cuff management

Timepoint

2 weeks before and after intervention

Method of measurement

Check list

Intervention groups

1

Description

Education of Intervention groups; at beginning mass education and then person to person training at the patient's bedside by lecture, questions and answers method with usage of pamphlet for 3 days.

Category

Other

2

Description

in control groups no intervention

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina Hospital

Full name of responsible person

Street address

City

Tehran

2

Recruitment center

Name of recruitment center

Shariati Hospital

Full name of responsible person**Street address****City**

Tehran

3

Recruitment center

Name of recruitment center

Rasool Akram Hospital

Full name of responsible person**Street address****City**

Tehran

4

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person**Street address****City**

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Masud Yunesian

Street address

Research Deputy department- 16 Azar ave- keshavarz
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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

Tehran 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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Full name of responsible person

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Position

MSc student

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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