Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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

rogheah javadi Ali Gheshlaghi

Name of organization / entity

TUMS

Country

Iran (Islamic Republic of)

Phone

+98 21 6692 7171

Email address

javadi_r@razi.tums.ac.ir

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 bolvard- tehran
City
Tehran
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
Tehran University of Medical Sciences
Full name of responsible person
Javadi Ali Gheshlaghi Rogheah
Position
MSc student
Other areas of specialty/work
Street address
No 18- 5 roose- Kaj Ave- Amir Kabir street- Tehran
City
Tehran
Postal code
Phone
+98 21 4473 3392
Fax
Email
javadirogheah@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Mohammadi Noraldin
Position
PhD
Other areas of specialty/work
Street address
Tohid sq- Nursing facuality
City
Tehran
Postal code
Phone
+98 21 6692 7171
Fax
Email
mohammadi_no@tums.ac.ir
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Rogheah Javadi Ali Gheshlaghi
Position
MSc student
Other areas of specialty/work
Street address
Tehran University of Medical Sciences- Poor Sina ave- Keshavarz Bolvard- Tehran
City
Tehran
Postal code
Phone

+98 21 6692 7171
Fax
+98 21 4473 3392
Email
rogheahjavadi@yahoo.com
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