

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Assessment of the effect of training to the nurses' performance in endotracheal suctioning in patients of intensive care unit

Protocol summary

Study aim

Determining the effect of training on nurses' performance in endotracheal suction of patients in intensive care units

Design

A randomized, one-blind clinical trial with 56 nurses participating randomly divided into two groups. In order to randomize, 28 yellow cards and 28 red card pockets will be used in the matte bag. By a conventional yellow color belongs to the case group and The red card belongs to the control group.

Settings and conduct

One-blind clinical trial in the intensive care unit of Imam Khomeini Hospital in Ardabil, that the analyst does not know about the classification of nurses in two groups. By randomization to control and case groups, the evaluation of the suction performance will be done using an observation checklist before and after the intervention. The intervention in the case group is the training of the principles of suction correctness and the results of the suction performance in the two groups will be compared before and after the intervention.

Participants/Inclusion and exclusion criteria

Not having acute and chronic illnesses Having a bachelor's degree and higher education Employment in the intensive care unit full time at least 3 months Provide direct patient care Interested in participating in the study Possibility to participate in training classes; Not having a willingness to participate during the study Not having possibility to participate in training classes during the study.

Intervention groups

Intervention by teaching the principles of suction as a lecture and presenting educational films and educational pamphlets , conducted by the supervisor of the training center during a 2-hour session within a week will be presented. The validity of the educational content was approved before being used by ten faculty members.

Main outcome variables

Suction performance

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181222042075N1**

Registration date: **2019-01-06, 1397/10/16**

Registration timing: **registered_while_recruiting**

Last update: **2019-01-06, 1397/10/16**

Update count: **0**

Registration date

2019-01-06, 1397/10/16

Registrant information

Name

Fateme Mohammadimegdar

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 45 3351 7620

Email address

mohammadimegdar@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-05, 1397/10/15

Expected recruitment end date

2019-03-16, 1397/12/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Assessment of the effect of training to the nurses' performance in endotracheal suctioning in patients of intensive care unit

Public title
Assessment of the effect of training to the nurses' performance

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Not having acute and chronic illnesses Having a bachelor's degree and higher education Employment in the intensive care unit full time at least 3 months Provide direct patient care Interested in participating in the study Possibility to participate in training classes
Exclusion criteria:
Not having a willingness to participate during the study Not having possibility to participate in training classes during the study

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Data analyser

Sample size
Target sample size: **56**

Randomization (investigator's opinion)
Randomized

Randomization description
Randomization method: Block randomization Random unit: Individual Randomization Tool: The number is equal to 28 yellow cards and 28 red cards in a matte bag. Then, the sample units of the research (nurses) will be required to remove one of the cards from the inside of the bag, in a conventional yellow color belonging to the case group red card group belonging to The control group will be. To hide: Participants will not be able to see the cards in the matte bag.

Blinding (investigator's opinion)
Single blinded

Blinding description
The data analyst does not know that the results before and after the intervention are for which case or control group.

Placebo
Not used

Assignment
Other

Other design features
A clinical trial study with nurses participating in the intensive care unit randomly divided into two groups. The control and evaluation of the suction performance during the procedure will be done using an observational checklist before and after the intervention. Intervention

in the case group is the training of the principles Correct suctioning and the results of suction performance in both groups will be compared before and after the intervention.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Ardabil University of Medical Sciences

Street address

Imam Reza Hospital, Basij Square, Ardabil

City

Ardabil

Province

Ardabil

Postal code

5619836468

Approval date

2018-12-04, 1397/09/13

Ethics committee reference number

IR.ARUMS.REC.1397.144

Health conditions studied

1

Description of health condition studied

Training, suction performance

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Nursing suction performance, rating of the Check list suction performance

Timepoint

Before the intervention and one month after the intervention

Method of measurement

observational checklist of suction performance

Secondary outcomes

1

Description

Diagnosis of clinical indication of need for suction, presence or absence of clinical indication of need for suction

Timepoint

Before the intervention and one month after the intervention

Method of measurement

Observational checklist clinical indication of need for suction

Intervention groups

1

Description

Intervention group: Intervention by teaching the principles of suction as a lecture and presenting educational films and educational pamphlets prepared by the researcher based on the nursing care standards of the country, conducted by the supervisor of the training center during a 2-hour session within a week (due to the shift of the nurses participating in The study) will be provided. The contents of the training were put before the use of 10 faculty members. Then the content validity was determined using the Walters and Basel techniques.

Category

N/A

2

Description

Control group: Additional work will not be done for this group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini therapeutic- training center

Full name of responsible person

Dr. Ismail Farzaneh

Street address

Imam Khomeini, Hospital, Noiagdam Street, Gods Square

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Ardabil

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5619647531

Phone

+98 45 3325 1401

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Emamhe@arums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Dr. Shahab Bohloli

Street address

Ardabil University of Medical Sciences, University Square, End of University Street

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Postal code

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Phone

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Email

info@arums.ac.ir

Web page address

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ardabil University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Fateme Mohammadimegdar

Position

Head Nurse

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Fateme Mohammadimegdar

Position

Head Nurse

Latest degree

Bachelor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Position

Head Nurse

Latest degree

Bachelor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available