

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 2026

Comparison of the effect of education with and without performance feedback on knowledge and skills of tracheal suctioning in nurses of Intensive Care Units

Protocol summary

Study aim

Objective: Identification of the effect of education with and without performance feedback on knowledge and skills of tracheal suctioning in nurses of Intensive Care Units(ICU) of hospitals Ahwaz

Design

Design: A before - after interventional study

Settings and conduct

At first, the performance of the nurses of the ICU of Imam Khomeini and Golestan hospitals of Ahvaz, who have study inclusion criteria, are checked by a check list and then knowledge questionnaire is completed by all samples. After this step, the correct suction method of the tracheal suctioning will be taught to all samples in theory and practice. Because of the possibility of transferring the feedback points by nurses, one of the two hospitals is drawn into the intervention group and the other in the control group, A week later, in the intervention group, feedback was given in writing and verbally, but no feedback is given to the control group. Four weeks after feedback, the knowledge questionnaire will be completed by both groups again and the performance will be measured by the checklist. A week later, the performance of the two groups will be reviewed again. The final grade of performance after training, the average score of the examination will be both the performance check.. At the end, the results of the analysis will be compared.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Nurses working in ICU, Minimum degree of Bachelor of Science in Nursing, Having satisfaction and least 6 months work experience in the ICU. Exclusion criteria: Unwillingness to continue cooperation, Not to be participated in the training session of tracheal suctioning, Transferring from the ICU to other departments or leave during the study.

Intervention groups

Intervention group: Provide written and verbal feedback one week after training

Main outcome variables

Knowledge and skill of suctioning

General information

Reason for update

Acronym

-

IRCT registration information

IRCT registration number: **IRCT20180227038881N1**

Registration date: **2018-06-10, 1397/03/20**

Registration timing: **prospective**

Last update: **2018-06-10, 1397/03/20**

Update count: **0**

Registration date

2018-06-10, 1397/03/20

Registrant information

Name

Elham Rasooli Nejad

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3647 4257

Email address

rasooli@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-22, 1397/04/01

Expected recruitment end date

2018-08-06, 1397/05/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of education with and without performance feedback on knowledge and skills of tracheal suctioning in nurses of Intensive Care Units

Public title

Effect of training with and without feedback on knowledge and skills of tracheal suctioning

Purpose

Supportive

Inclusion/Exclusion criteria**Inclusion criteria:**

Nurses working in Intensive care units, Minimum degree of Bachelor of Science in Nursing, Having satisfaction to participate in research, Having at least 6 months work experience in the intensive care unit,

Exclusion criteria:

Inclusion criteria:Unwillingness to continue cooperation; Not to be participated in the training session of Correct procedure for tracheal suctioning; Transferring from the intensive care units to other departments or long-term leave during the research;

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

By separating the two hospitals into the control group and the intervention group

Blinding (investigator's opinion)

Double blinded

Blinding description

By separating the two hospitals into the control group and the intervention group

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Shiraz University of Medical Sciences

Street address

Central Building of Shiraz University of Medical Sciences,Zand st

City

Shiraz

Province

Fars

Postal code

7134814336

Approval date

2018-01-15, 1396/10/25

Ethics committee reference number

IR.SUMS.REC.1396.154

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

Effect of training with and without feedback on knowledge and skills of tracheal suctioning

ICD-10 code

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ICD-10 code description

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

knowledge

Timepoint

Before - After intervention

Method of measurement

Knowledge Assessment Questionnaire

2**Description**

performance

Timepoint

Before - After intervention

Method of measurement

Performance Checklist

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Provide written and verbal feedback one week after training

Category

Prevention

2

Description

Control group: After training, no feedback is given

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Golestan Hospital

Full name of responsible person

Dr. Mohammad Ali Sheikhi

Street address

Golestan Koi

City

Ahvaz

Province

Khouzestan

Postal code

6136835685

Phone

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2

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Dr. Sassan Mooghi

Street address

Azadegan Avenue

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Ghulam Reza Hatam

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The Central Building, Shiraz University of Medical Sciences, Zand st

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hatamGHR@sums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shiraz 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

Shiraz University of Medical Sciences

Full name of responsible person

Elham Rasooli Nejad

Position

student of masters of adult critical care nursing

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Fatemeh(P.B.U.H.) college of nursing and midwifery

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Elhamrasoolinejad@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Fereshteh Dehghanrad

Position

Masters of nursing education- Instructor

Latest degree

Master

Other areas of specialty/work

Nursery

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Person responsible for updating data

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Elham Rasoolinejad

Position

student of masters of adult critical care nursing

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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6163954773

Phone

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Email

Elhamrasoolinejad@yahoo.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

"No more information".

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available