

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

The effects of active and passive implementation of prevention of ventilator associated pneumonia guideline on critical care nurses' performance

Protocol summary

Summary

The purpose of this study is to compare the effectiveness of an active and passive approach in improving the nurses' performance in implementing guidelines for the prevention of ventilator associated pneumonia in Critical Care Units. Three selected hospitals affiliated to Tehran University of Medical Sciences will be randomly assigned to the active and passive intervention and control groups. These hospitals have equal aspects for recruitment and have similar nursing performance. One hundred and twenty nurses who are working in these hospitals will be participated in this study by convenience sampling. Inclusion criteria: Bachelor's degree or higher and having at least 3 months of service in critical care units. Exclusion criteria: Not willing to continue participation in study or transferring to other wards. At first nurses' performance in prevention of ventilator associated pneumonia will be evaluated by a self-administered questionnaire. For passive intervention group a poster containing recommendations of prevention of ventilator associated pneumonia will be installed over the wall for each bed. For active intervention group in addition to install a poster over the wall for each bed, educational workshops and feedback about nurses' performance will be given. In control group, without any intervention, just nurses' preventative performance will be evaluated before and 1 month later. After one month nurses' preventative performance will be evaluated by the self-administered questionnaire in 3 groups. Finally data will be compared in 3 groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204241599N18**

Registration date: **2013-02-12, 1391/11/24**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-02-12, 1391/11/24

Registrant information

Name

Mitra Zolfaghari

Name of organization / entity

Tehran University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 21 6692 7171

Email address

zolfaghm@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tehran University of Medical Sciences

Expected recruitment start date

2013-02-03, 1391/11/15

Expected recruitment end date

2013-04-18, 1392/01/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of active and passive implementation of prevention of ventilator associated pneumonia guideline on critical care nurses' performance

Public title

The effect of implementation of prevention of respiratory infection guideline on nurses' performance

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 1. Bachelor's degree or higher 2. Having at least 3 months of service in critical care units 3. Not attending educational classes related to prevention of ventilator associated pneumonia within the 3 past years. Exclusion criteria: 1. Not willing to continue participation in study 2. Transferring to other wards

Age

From **22 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Three selected hospitals affiliated to Tehran University of Medical Sciences randomly will be assigned to the active intervention, passive intervention and control groups. These hospitals have equal aspects for recruitment and have similar nursing performance. One hundred and twenty nurses who are working in Critical Care Units in these hospitals will be participated in this study by convenience sampling.

Secondary Ids

empty

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

Ethics Committee of Tehran University of Medical Science

Street address

Ghods St. Tehran

City

Tehran

Postal code**Approval date**

2012-10-20, 1391/07/29

Ethics committee reference number

130/1726

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

pneumonia

ICD-10 code

J18.9

ICD-10 code description

Pneumonia, unspecified

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

Nurses' performance in the care of ventilated patient

Timepoint

Two weeks before intervention and one week after intervention

Method of measurement

Researcher made questionnaire with likert scale

2**Description**

Nurses' performance in mouth hygiene

Timepoint

Two weeks before intervention and one week after intervention

Method of measurement

Researcher made questionnaire with likert scale

3**Description**

Nurses' performance in hand hygiene

Timepoint

Two weeks before intervention and one week after intervention

Method of measurement

Researcher made questionnaire with likert scale

Secondary outcomes

empty

Intervention groups**1****Description**

Nurses' performance in prevention of ventilator associated pneumonia will be evaluated before active intervention. Then posters containing prevention of ventilator associated pneumonia's recommendations will

be installed over the wall for each bed and educational workshops and feedback about nurses' performance will be given. One week later nurses' performance in prevention of ventilator associated pneumonia will be evaluated again.

Category

Prevention

2**Description**

Nurses' performance in prevention of ventilator associated pneumonia will be evaluated before passive intervention. Then posters containing prevention of ventilator associated pneumonia's recommendations will be installed over the wall for each bed. One week later nurses' performance in prevention of ventilator associated pneumonia will be evaluated again.

Category

Prevention

3**Description**

Nurses' performance in prevention of ventilator associated pneumonia will be evaluated in control group. Without any intervention, just nurses' performance in prevention of ventilator associated pneumonia will be evaluated one month later.

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Imam Khomeini Hospital

Full name of responsible person**Street address**

Valiasr Sq. Tehran

City

Tehran

2**Recruitment center****Name of recruitment center**

Rasool Akram Hospital

Full name of responsible person**Street address**

Niayesh St. Tehran

City

Tehran

3**Recruitment center****Name of recruitment center**

Shariati Hospital

Full name of responsible person**Street address**

Northern Kargar St. Tehran

City

Tehran

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research, Tehran University of Medical Sciences

Full name of responsible person

Mitra Zolfaghari

Street address

Tohid Sq. Nursing and Midwifery College

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for research, 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**

Nursing and Midwifery College of Tehran University of Medical Sciences

Full name of responsible person

Fateme Behesht Aeen

Position

Master of Science student

Other areas of specialty/work**Street address**

No.36, Vahdat St. Sardaran Ave. Shiraz

City

Shiraz

Postal code**Phone**

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Fax**Email**

fbeheshtaeen@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

Mitra Zolfaghari

Position

PhD

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Person responsible for updating data

Contact

Name of organization / entity

Nursing and Midwifery College of Tehran University of Medical Sciences

Full name of responsible person

Fateme Behesht Aeen

Position

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Fax**Email**

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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