Clinical Trial Protocol
Iranian Registry of Clinical Trials

27 Jun 2026

Comparison of the effect of social network-based and lecture-based educational method on the nurses in using CPOT scale (pain control and monitoring) for patients with decreased level of consciousness

Protocol summary

Study aim

1.Determination of the effect of social network-based and lecture-based educational method on the nurses in using CPOT scale for pain severity in patients with decreased level of consciousness 2.Determination of the effect of social network-based and lecture-based educational method on the nurses in using CPOT scale for patient response monitoring in patients with decreased level of consciousness 3.Determination of the effect of social network-based and lecture-based educational method on the nurses in using CPOT scale for pain documentation in patients with decreased level of consciousness

Design

In this study, 70 employed nurses who have inclusion criteria, will be selected from the intensive care unit of Imam Reza Hospital and Ghaem Hospital in Mashhad. The participants is randomly divided into intervention and control groups, and a unique code is assigned to each participant. The nurses of the intervention group, will be trained about CPOT tool, using the social network media (telegram application). Concurrently, the control group (lecture-based) will be taught about CPOT tool.

Settings and conduct

The researcher will teach about using the CPOT scale to nurses (intervention group) through social network (telegram app.). In the lecture group, teaching the educational materials will be done by researchers (with similar educational content). Lecture sessions will be held twice a week and will last for 90 minutes. At the beginning of the study and two weeks after the end of the intervention, the nurses' function in diagnosing, determining the pain severity and its documentation in the patient records will assess in three modes: resting, position changing and suctioning.

Participants/Inclusion and exclusion criteria

Inclusion criteria for nurses: Having the consent to participate in the study Having a nursing work experience more than one year in the intensive care unit Having the morning and afternoon work shifts Bachelor's degree or higher Inclusion criteria for patients: more than 18 years of age Being mechanically ventilated without paralyzing drugs Inability to communicate verbally and non-verbally The RASS score is between -2 and -3 Having tracheal tube or tracheostomy. Exclusion criteria for nurses: Not interested to continue the cooperation

Intervention groups

The nurses of the intervention group will learn how to use the COPT tool through social networks (telegram messenger). The nurses of the control group will learn how to apply the COPT tool through traditional (lecture) method.

Main outcome variables

Learning how to use the observational tool for pain assessment can be a practical way to manage the pain of intubated patients with decreased level of consciousness. It is also an effective step to empower nurses in pain management.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171123037599N1**
Registration date: **2018-01-07, 1396/10/17**
Registration timing: **registered_while_recruiting**

Last update: **2018-01-07, 1396/10/17**
Update count: **0**

Registration date

2018-01-07, 1396/10/17

Registrant information

Name

Razieh Froutan

Name of organization / entity
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Iran (Islamic Republic of)
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Recruitment status
Recruitment complete
Funding source

Expected recruitment start date
2017-12-22, 1396/10/01
Expected recruitment end date
2018-04-21, 1397/02/01
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparison of the effect of social network-based and lecture-based educational method on the nurses in using CPOT scale (pain control and monitoring) for patients with decreased level of consciousness

Public title
The effect of social networking education and lecture on the use of the COPT tool
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
Nurses working in the intensive care unit of Imam Reza Hospital and Ghaem Hospital in Mashhad working history more than 1 year BsC. in nursing or higher degree
Exclusion criteria:
Previously,nurses have participated in the educational program of virtual social networks and lecture to use the observational tool of pain assessment.
Age
From **22 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **70**
Randomization (investigator's opinion)
Randomized
Randomization description
Nurses working in ICUs of Imam Reza and Qaem hospital are divided by random lottery into two groups, so that the one hospital is assigned to the intervention group and another hospital is to control group. The selection of nurses in each hospital will be by random.
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Mashhad University of Medical Sciences
Street address
Ebne- Sina Street,School of Nursing and Midwifery ,Mashhad, Iran.
City
Mashhad
Province
Razavi Khorasan
Postal code
9137913199
Approval date
2017-11-25, 1396/09/04
Ethics committee reference number
IR.MUMS.REC.1396.287

Health conditions studied

1

Description of health condition studied
loss of consciousness
ICD-10 code
S06.899
ICD-10 code description
Other specified intracranial injury with loss of consciousness of unspecified duration

Primary outcomes

1

Description
CPOT scale usage by nurses
Timepoint
Assessment of nurses' performance at the beginning of the study (before intervention) and 14 days after the intervention (training through social networks), for two weeks
Method of measurement
researcher-made checklist

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: The nurses of the intervention group, will be trained about CPOT tool, using the social network media (telegram application).
Category
Other

2

Description
Control group: The nurses of the control group, will be trained about CPOT tool, using lecture method.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Reza & Ghaem Hospital of mashhad
Full name of responsible person
Razieh Froutan
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Nursing faculty, Ebn-e-Sina Street, Mashhad
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Deputy of Research and Technology
Street address
Ghoreishi building, Daneshgah street.
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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
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
Razieh Froutan
Position
Assistant Professor
Latest degree
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Other areas of specialty/work
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Yes - There is a plan to make this available
Statistical Analysis Plan
Yes - There is a plan to make this available
Informed Consent Form
Yes - There is a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Not applicable
Title and more details about the data/document
Consent form sample analysis method study result final manuscript
When the data will become available and for how long
One year after publication
To whom data/document is available
academic researcher by demand
Under which criteria data/document could be used
for systematic reviews and meta-analysis
From where data/document is obtainable
email: froutanr@mums.ac.ir
What processes are involved for a request to access data/document
After Email reception.
Comments