

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

Impact of web-based patient safety training to nursing managers on patient safety culture in nurses

Protocol summary

Study aim

Determining the impact of web-based patient safety training to nursing managers on patient safety culture in nursing staff

Design

two arm parallel group semi-experimental study with 2 control and intervention group of 100 head nurses (each 50) selecting hospitals (Imam Khomeini in one group, Sina and Shariati in another group) through simple dice sampling method selecting head nurses through available sampling method selecting nursing staff (nurses and nursing assistants) through Table of random sampling

Settings and conduct

Interview with Head nurses and nursing staff of Imam Khomeini, Shariati and Sinai hospitals and inviting them. After obtaining Informed consent, links of classes and questionnaire will be sent to. CCU, ICU, Dialysis and other wards like internal medicine, surgery, etc., are included in the study.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Having a management position at least 6 months and not participating in a similar management course for head nurses having at least a nursing bachelor's degree, having a certificate of nursing assistant, access to a smartphone or computer, willingness to participate in the study. Exclusion criteria: Changing the management post.

Intervention groups

Intervention group: educational content with weekly updates during 6 sessions of 30-40 minutes is presented only to head nurses of the intervention group during 6-12 weeks. The platform is in the educational system of the university. The pre-test before the first session and the post-test 2 and 6 weeks later will be taken from all participants. Control group: They do not receive any training, they only do the pre-test and post-test at the beginning and end of the training period of the intervention group.

Main outcome variables

Age; gender; education level; working experience in hospital; time and duration of having management position; patient safety education. patient safety culture

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170827035918N3**

Registration date: **2023-12-09, 1402/09/18**

Registration timing: **prospective**

Last update: **2023-12-09, 1402/09/18**

Update count: **0**

Registration date

2023-12-09, 1402/09/18

Registrant information

Name

zahra sajadi monfared

Name of organization / entity

Tehran University of Medical sciences/ Students' Scientific Research Center (SSRC)

Country

Iran (Islamic Republic of)

Phone

+98 21889891614

Email address

zahrasajedi75@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-12-22, 1402/10/01

Expected recruitment end date

2024-04-20, 1403/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Impact of web-based patient safety training to nursing managers on patient safety culture in nurses

Public title

Impact of web-based patient safety training to nursing managers on patient safety culture in nurses

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

Head nurses: having the management position for at least 6 months, having at least a bachelor's degree, not participating in a similar management course, access to a smartphone or computer, willingness to participate in the study
Nursing staff/nurses: Having at least a bachelor's degree for nurses, including the title of nurse in their employment order, working as a nurse in hospital wards, access to a smartphone or computer, willingness to participate in the study
Nursing staff/nursing assistants: Having a certificate of nursing assistant, including the title of nursing assistant in their employment order, working as a nursing assistant in hospital wards, access to a smartphone or computer, willingness to participate in the study

Exclusion criteria:

Changing the management post

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

selecting hospitals (Imam Khomeini in one group, Sina and Shariati in another group) through simple dice sampling method selecting nursing staff (nurses and nursing assistants) through Table of random sampling

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Other

Other design features**Secondary Ids**

empty

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

Research Ethics Committees of School of Nursing and Midwifery & Rehabilitation - Tehran University o

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1467664961

Approval date

2023-11-18, 1402/08/27

Ethics committee reference number

IR.TUMS.FNM.REC.1402.163

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

No diseases

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Patient safety culture

Timepoint

Before intervention. 2 and 6 weeks after intervention

Method of measurement

Hospital Survey on Patient Safety Culture

Secondary outcomes

empty

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

Intervention group: Individuals who join the intervention group receive the following training. The content is a combination of relevant sections on patient safety in nursing and management textbooks, patient safety culture questionnaires, clinical guidelines provided by the World Health Organization, and the literature review. The training includes patient safety and its culture,

communication and feedback regarding errors, organizational learning, teamwork, error reporting, risk assessment and management, drug adverse effects and interactions, infection control, nursing leadership and safety leadership, and managerial support for patient safety. The training is presented to the head nurses intervention group only in six 30-40 minute sessions over a period of 6-12 weeks through media. The electronic content is prepared under the supervision of the research team and will be controlled by nursing management group of the nursing and midwifery faculty members as well as the virtual education group of the university. The potential platform is in the university's educational system. Each individual has their own password and access code. After logging into their personal page, each person have access to the content of the session they need. The educational content cannot be downloaded and individuals have online access to it. The educational content of each session is updated weekly. A message is sent each week as reminder and motivation. Individuals are given two weeks to study the content of each session. It should be noted that the content of the next session is only accessible only if they answer the questions at the end of each session. Head nurses can this opportunity to ask their question. Pre-test is taken before starting the first session, and post-test is taken two weeks and six weeks after providing the training from all participants (head nurses and nursing staff).

Category

N/A

2

Description

Control group: people who allocate to control group receives no training. They are just asked to do pre and post tests at the beginning and end of training in intervention group,

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shariati hospital

Full name of responsible person

zahra sajedimonfared

Street address

Shariati Hospital, Jalal Al Ahmad Three Roads, North Kargar St, Tehran, Tehran Province

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2

Recruitment center

Name of recruitment center

Imam Khomeini Hospital Complex

Full name of responsible person

zahra sajedimonfared

Street address

Tehran Province, Tehran, at the end of Keshavarz Boulevard, Imam Khomeini Hospital Complex

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3

Recruitment center

Name of recruitment center

Sina hospital

Full name of responsible person

Zahra Sajedimonfared

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Ali Akbarisari

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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

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Zahra Sajedimonfared

Position

Master student of Nursing Management

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

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Full name of responsible person

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Professor

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Person responsible for updating data

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

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Position

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Latest degree

Bachelor

Other areas of specialty/work

Nursery

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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

No - There is not a plan to make this available

Clinical Study Report

Yes - There is 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

Title and more details about the data/document

All data is potentially shareable after de-identifying individuals.

When the data will become available and for how long

Start access after printing the results

To whom data/document is available

No limitation.

Under which criteria data/document could be used

The data can be used to plan empowerment programs for nurses and nursing managers.

From where data/document is obtainable

zahrasajedi75@gmail.com zahra sajedi

nahid.nayeri@gmail.com nahid dehghan nayeri

What processes are involved for a request to access data/document

Sending an email to the responsible author is enough.

Comments