

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

The Effect of E-learning of Patient Safety Principles on Safety Culture and Patient Safety by Nurses in Imam Reza Hospital

Protocol summary

Patient safety culture; patient safety

Study aim

Determining the impact of electronic training on patient safety principles on the level of nurses' safety culture and compliance with patient safety by nurses of Imam Reza Hospital

Design

A clinical trial with a control group, with parallel groups, which will be assigned to two control and intervention groups by a simple random method by tossing a coin on 60 nurses who are available.

Settings and conduct

This study will be conducted on 60 nurses of (ICU-CCU-Emergency) departments of Imam Reza Hospital (AS) in Tehran. Before the intervention, the personal information form, patient safety culture assessment questionnaire and patient safety questionnaire are completed by the nurses of the intervention and control groups. Individual training program in the form of a face-to-face session for nurses of both test and control groups, 6 2-hour multimedia sessions (CD containing voiced PowerPoint) during 6 weeks only in The discretion of the test group is to be used at home. will be completed. No intervention will be done for this group.

Participants/Inclusion and exclusion criteria

Entry requirements: willingness to participate in the study, having at least one year of work experience in the nursing profession, having a university education in the field of nursing, access to electronic tools Failure to enter: Not having the disease of Covid-19 and being sick

Intervention groups

Intervention group: The educational content in 6 2-hour sessions in multimedia format (CD containing voiced PowerPoint) during 6 weeks (one CD per week) was provided only to the test group for use at home. Three shifts were done. Also, by considering a group in virtual space approved by Aja University of Medical Sciences, it was possible to ask questions about ambiguities. Control group: no intervention was done for this group.

Main outcome variables

General information

Reason for update

Acronym

کارآزمایی کنترل شده تصادفی

IRCT registration information

IRCT registration number: **IRCT20221129056661N1**

Registration date: **2023-01-11, 1401/10/21**

Registration timing: **registered_while_recruiting**

Last update: **2023-01-11, 1401/10/21**

Update count: **0**

Registration date

2023-01-11, 1401/10/21

Registrant information

Name

sepideh faridi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4382 3484

Email address

sepideh_faridi2@outlook.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-12-21, 1401/09/30

Expected recruitment end date

2023-02-19, 1401/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of E-learning of Patient Safety Principles on Safety Culture and Patient Safety by Nurses in Imam Reza Hospital

Public title

The Effect of E-learning of Patient Safety Principles on Safety Culture and Patient Safety by Nurses in Imam Reza Hospital

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

Willingness to participate in the study Having work experience in the nursing profession for at least one year Working in the current department of the place of service for at least one month Having a university education in the field of nursing Failure to pass a training course in the field of safety culture and patient safety in the last 6 months Access to electronic tools for learning with Windows program

Exclusion criteria:

Not having the disease of Covid-19 and being sick

Age

From **23 years** old

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

The nurses of the departments (ICU-CCCU-Emergency) will be assigned to two groups of 30 test persons and 30 control persons by a simple random method by tossing a coin.

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 the University of Medical Sciences of the Islamic Republic of Iran Army

Street address

13th floor, Block A, Treatment and Medical Education, Central Headquarters of the Ministry of Health, Simai Iran St., between South Flamak and Zarafshan, Quds town,

City

تهران

Province

Tehran

Postal code

1613918151

Approval date

2021-08-30, 1400/06/08

Ethics committee reference number

IR.AJAUMS.REC.1400.068

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

Patient safety culture

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

Patient safety culture score

Timepoint

Before the intervention and 14 days after the intervention

Method of measurement

Patient safety culture questionnaire

2**Description**

Compliance with patient safety

Timepoint

Before the intervention and 14 days after the intervention

Method of measurement

Patient safety compliance questionnaire

Secondary outcomes

empty

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

Intervention group: Individual training program in the form of a face-to-face meeting to introduce, express the goals and title separately for the nurses of the intervention group, 6 sessions of 2 hours in multimedia

(CD containing voiced PowerPoint) during 6 weeks (one CD per week) It will only be available to the test group for use at home

Category

N/A

2

Description

Control group: The training program will be presented separately for the control nurses in the form of an in-person meeting to introduce, state the goals and the title, and no intervention will be done for the control group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital, Aja University of Medical Sciences

Full name of responsible person

Dr. Mojtabi Yousefi Zashak

Street address

Sarhang Etemadzadeh Street, North Kargar Street,

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1411718546

Phone

+98 21 8609 6350

Email

Sh.aliyari@ajaum.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Artesh University of Medical Sciences

Full name of responsible person

Reza Mosaed

Street address

Army University of Medical Sciences, Serhang Etemadzadeh Street, West Fatemi Street, North Kargar Street

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reza.mosaed@ajaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Artesh 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

Artesh University of Medical Sciences

Full name of responsible person

Sepideh Faridi

Position

Nurse

Latest degree

Master

Other areas of specialty/work

Nursery

Street address

Aja College of Nursing, Kaj Street, Shariati Street

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Email

sepideh_faridi2@outlook.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Artesh University of Medical Sciences

Full name of responsible person

Sepideh Faridi

Position

Nurse

Latest degree

Master

Other areas of specialty/work

Nursery

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Person responsible for updating data**Contact****Name of organization / entity**

Artesh University of Medical Sciences

Full name of responsible person

Sepideh Faridi

Position

Nurse

Latest degree

Master

Other areas of specialty/work

Nursery

Street address

Aja College of Nursing, Kaj Street, Shariati Street

City

Tehran

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

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable