

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

The Effect of Interactive E- learning on Knowledge and Recognition of Delirium and Strain of Caring Patients with Delirium among intensive care nurses

Protocol summary

Study aim

Investigating the Effect of Interactive Electronic Teaching on Knowledge and Identification and Nursing Care Stress in (ICU)

Design

intervention

Settings and conduct

At first, a face-to-face training session will be conducted on how to use the interactive electronic learning material placed on the hospital's intervention website (Shahid Rahimi), before starting training questionnaires on knowledge and identification and care stress by nurses working in the ICU wards. Intervention and control hospitals were filled and then the nurses of the intervention group received educational intervention through the personal access to the intervention hospital website (Shahid Rahimi, Khorram Abad). After 2 months, the nurses of the two groups of control and intervention should attempt to re-fill the questionnaires of knowledge and identification and pressure of care.

Participants/Inclusion and exclusion criteria

Nurses (ICUs) have at least a bachelor's degree and have six months of clinical work experience in specialist departments and have not completed the delirium training course over the past 5 years and have at least computer literacy.

Intervention groups

Nurses working in ICU at Shahid Rahimi Hospital, Khorramabad as intervention group and nurses working in ICU in Khorramabad Nursing Shohada Hospital as control group.

Main outcome variables

Knowledge; recognition; strain of care

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181013041329N1**

Registration date: **2019-03-20, 1397/12/29**

Registration timing: **prospective**

Last update: **2019-03-20, 1397/12/29**

Update count: **0**

Registration date

2019-03-20, 1397/12/29

Registrant information

Name

Fatemeh Rahnamaei

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4365 1714

Email address

farahnamaei1377@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-03-21, 1398/01/01

Expected recruitment end date

2020-03-19, 1398/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Interactive E- learning on Knowledge and

Recognition of Delirium and Strain of Caring Patients with Delirium among intensive care nurses

Ethics committee reference number

IR.IUMS.REC.1397.760

Public title

The Effect of E- Learning on Nurses in intensive care unit on Delirium

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Have at least a bachelor's degree in nursing At least six months of ICU clinical experience. Not passing the Delirium training course over the past 5 years Having at least computer literacy

Exclusion criteria:

Getting out of the intensive care unit before completing the study for any reason Failure to complete the questionnaire completely

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 98

Randomization (investigator's opinion)

Not randomized

Randomization description

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

Ethics committee of Iran University of Medical Sciences

Street address

Iran University of Medical Sciences, Hemmat Highway

City

Tehran

Province

Tehran

Postal code

1449614535

Approval date

2019-01-11, 1397/10/21

Health conditions studied

1

Description of health condition studied

Delirium

ICD-10 code

F51.05

ICD-10 code description

Insomnia due to other mental disorder

Primary outcomes

1

Description

Knowledge; recognition; strain of care

Timepoint

Investigation Knowledge, recognition and strain of care before intervention and 2 months after starting to use interactive electronic educational content.

Method of measurement

Detroyer Knowledge Delirium Questionnaire; Strain of Care Nurses with Delirium Questionnaire; Delirium Identification Using Case Vignette

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: instructor nurses will be given an oral briefing session in about half an hour in person on how to use interactive electronic learning content. Oral and written training will be given (in the form of educational pamphlets). Then the electronic content will be uploaded to the hospital site, which is considered as an interventional environment, and will be provided to the nurses by the intervention group using a special address. The electronic content will be available to the nurses in the intervention group for 2 months. Each week, a group message will be sent to the nurses to remind and motivate the use of the content

Category

Other

2

Description

Control group: nurses in the control group are under common practice and will not receive interactive training.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada-ye Ashayer hospital

Full name of responsible person

Fatemeh Rahnamaei

Street address

Shohada-ye Ashayer hospital, Jalal Al Ahmad Street,
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2

Recruitment center

Name of recruitment center

Shahid Rahimi Hospital

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Dr. Massoud Naseri Pour

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Web page address

http://www.iums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Fatemeh Rahnamaei

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Tahereh Najafi

Position

Associate Professor

Latest degree

Ph.D.

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Latest degree

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Other areas of specialty/work

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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

Undecided - It is not yet known if there will be 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