Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Designing a hospital triage training application based on the microlearning method and comparing its effect with the lecture method on the Learning outcomes of nursing students of Aja University of Medical Sciences..

Protocol summary

Study aim

Designing a hospital triage training application based on the microlearning method and comparing its effect with the lecture method on the learning outcomes of Aja University of Medical Sciences nursing students.

Design

A controlled, parallel-group, single-blind clinical trial of 60 students. The web software https://www.graphpad.com/quickcalcs/randomize2/ will be used for randomization.

Settings and conduct

This study will be conducted on nursing students of Aja University of Medical Sciences. The method of doing the work is that the students of the sixth semester will enter the study using a simple random method and will be divided into 3 intervention groups: the first intervention (micro learning method), the second intervention (lecture method) and the control group. The researcher provided sufficient explanations about the study to the students so that they signed the informed consent form if they wanted to participate in the study. For the first intervention group, triage educational content will be used in the form of a researcher-made application. For the second intervention group, the same educational content will be taught by lecture method, and no intervention will be done for the control group.

Participants/Inclusion and exclusion criteria

6th semester students of Aja Faculty of Nursing; Willingness to participate in the study; Failure to pass training courses in the field of triage; Having a smart mobile phone

Intervention groups

The students of the 6th semester will be enrolled in the study using a simple random method and will be divided into 3 groups: the first intervention (triage training using the micro learning method), the second intervention (triage training using the lecture method) and the control group.

Main outcome variables

Teaching by microlearning method; teaching by lecture method; Knowledge; Mental skill

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20240506061671N1**
Registration date: **2024-06-05, 1403/03/16**
Registration timing: **prospective**

Last update: **2024-06-05, 1403/03/16**
Update count: **0**

Registration date

2024-06-05, 1403/03/16

Registrant information

Name

seyyed Mohammad hosseininia

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 8802 8350

Email address

hosseininia.1989@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-09-14, 1403/06/24

Expected recruitment end date
2024-12-14, 1403/09/24
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Designing a hospital triage training application based on the microlearning method and comparing its effect with the lecture method on the Learning outcomes of nursing students of Aja University of Medical Sciences..

Public title
Designing a hospital triage training application based on the microlearning method and comparing its effect with the lecture method on the Learning outcomes of nursing students of Aja University of Medical Sciences..
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
6th semester students of Aja Nursing School Willingness to participate in the study Failure to pass training courses in the field of triage Having a smart phone
Exclusion criteria:
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked

- Data analyser

Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Using the software on the web with the link: https://www.graphpad.com/quickcalcs/randomize2 A random allocation program will be designed and implemented in the study.
Blinding (investigator's opinion)
Single blinded
Blinding description
The study will be one-sided blind and the statistical analyst will be unaware of the allocation of people to groups.
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Aja University of Medical Sciences
Street address
Tehran, Shariati St., Kaj St., Aja Nursing Faculty
City
Tehran
Province
Tehran
Postal code
1411718541
Approval date
2024-05-12, 1403/02/23
Ethics committee reference number
IR.AJAUMS.REC.1403.032

Health conditions studied

1

Description of health condition studied
It is not the case in this study.
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
The outcome variable in the current study is the score obtained in the knowledge assessment questionnaire, which is taken from the NCLEX questions and the latest edition of the emergency severity index, and the score obtained in the mental skill questionnaire.
Timepoint
The level of knowledge and mental skill will be measured at the beginning of the study (before the intervention) and immediately after the intervention.
Method of measurement
The way to measure the variable of two questionnaires is to measure knowledge and mental skill.

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: First: training with the microlearning application
Category
Other

2

Description
Intervention group 2nd: teaching by lecture method
Category
Other

3

Description
Control group: Control group: no action will be taken by the research team for them
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Aja University of Medical Sciences
Full name of responsible person
seyyed Mohammad Hosseininia
Street address
West Fatemi Street, Shahid Etemadzadeh Street, Aja University of Medical Sciences.
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jps.ajaumsg@mail.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Artesh University of Medical Sciences
Full name of responsible person
Mojtaba Yusefi
Street address
West Fatemi Street, Shahid Etemadzadeh Street, AJA University of Medical Sciences
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jps.ajaums@gmail.com
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
Seyyed Mohammad Hosseininia
Position
Student
Latest degree
Bachelor
Other areas of specialty/work
Nursery
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Person responsible for updating data

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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