Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Comparison of the effect of serious game and feedback lecture on the knowledge and assessment skills of nursing students to evaluation burn patients

Protocol summary

Study aim
Determining the effect of serious game and feedback lecture on the knowledge and assessment skills of nursing students in the evaluation of burn patients

Design
This clinical trial study has two groups of parallel intervention and blinding, which will be performed on 54 people. Www.randomization.com will be used for randomization. For this purpose, the required sample size (54 people) will be given to the website, then the website will present two random sequences named A and B which contain 27 numbers. In the next step, each of the subjects will be randomly assigned to one of the two groups according to the number given to them.

Settings and conduct
This study will be held at the Faculty of Nursing and Midwifery of Mashhad University of Medical Sciences. In the serious game group, students will be intervened using a serious game. In the feedback lecture group, the content will be presented through feedback lecture training sessions with students. In addition, the analyzer will be blinded due to lack of information about the random allocation of people

Participants/Inclusion and exclusion criteria
Undergraduate students of nursing sciences

Intervention groups
In the serious game intervention group, students will learn the lessons through a serious web-based game. In the feedback lecture group, students will also receive content based on the feedback lecture protocol. For this purpose, the instructor will present the same contents of the intervention group during 2 90-minute sessions using the feedback lecture method

Main outcome variables
assessment skill; knowledge

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20220410054483N1**
Registration date: **2022-04-18, 1401/01/29**
Registration timing: **prospective**

Last update: **2022-04-18, 1401/01/29**
Update count: **0**

Registration date
2022-04-18, 1401/01/29

Registrant information

Name
Amirreza Nasirzadeh

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 51 3859 1511

Email address
nasirzadehar992@mums.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2022-04-22, 1401/02/02

Expected recruitment end date
2022-05-23, 1401/03/02

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of the effect of serious game and feedback lecture on the knowledge and assessment skills of nursing students to evaluation burn patients

Public title
Effect of serious game and feedback lecture on the knowledge and assessment skills of nursing students

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:
To be undergraduate nursing student in Mashhad University of Medical Sciences Access to the Internet

Exclusion criteria:
To have previous experience in learning to burn assessment

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Data analyser

Sample size
Target sample size: **54**

Randomization (investigator's opinion)
Randomized

Randomization description
Random allocation of individuals will be done using the website www.randomization.com. For this purpose, the required sample size will be given to the website, then the website will present two random sequences named A and B. In the next step, each of the subjects will be randomly assigned to one of the two groups according to the number given to them.

Blinding (investigator's opinion)
Single blinded

Blinding description
Because the analyst does not know how to assign people to intervention groups (serious game intervention, feedback lecture intervention) and does not know in which group each person was present, he will be blinded.

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
Daneshgah Ave, Mashhad, Razavi Khorasan Province.

City
Mashhad

Province
Razavi Khorasan

Postal code
9137913199

Approval date
2022-02-21, 1400/12/02

Ethics committee reference number
IR.MUMS.NURSE.REC.1400.096

Health conditions studied

1

Description of health condition studied
Problems related to education and literacy

ICD-10 code
Z55.8

ICD-10 code description
Other problems related to education and literacy

Primary outcomes

1

Description
assessment skill

Timepoint
After three weeks of educational intervention

Method of measurement
Researcher made checklist

2

Description
assessment knowledge

Timepoint
After three weeks of educational intervention

Method of measurement
Online Researcher made questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Students must first register in this game and set a username and password to be able to enter the game. The student is free to enter the first stage of the game. At the beginning of the entry, explanations about the desired course title are given to him, then questions about the same subject are asked in the form of a short film or a picture of burn patients. Students should choose the appropriate option according

to the time allotted for answering the questions. If he chooses the wrong answer, in addition to displaying the wrong choice message, he will be given a brief explanation of why the chosen answer was wrong, without mentioning the correct option. But if you choose the right option, in addition to encouraging the student, a brief explanation will be given to emphasize the correct option and confirm the student's learning, and a point will be considered for him. If 60% of the questions in each stage are answered correctly, the student can enter the next stage. Also, the student can compare his points with other students at any time in the points section and observe his rank in the group. After 2 weeks, students will be in the skill lab room to practice and learn practical burn assessment skills

Category
N/A

2

Description
Intervention group: In the feedback lecture group, students will receive materials based on the feedback lecture protocol. For this purpose, the instructor will present the same content of the intervention group during 2 90-minute sessions using the feedback lecture method. This 90 minutes will be divided into 3 parts of 30 minutes (25 minutes of lecture and 5 minutes of discussion). After 2 weeks, students will be in the skill lab room to practice and learn practical burn assessment skills

Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
School of nursing and midwifery

Full name of responsible person
Amirreza Nasirzadeh

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Daneshgah Ave, Nursing and Midwifery School, Mashhad.

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Email
nasirzadehar992@mums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences

Full name of responsible person
Majid Ghayour-Mobarhan

Street address
Knowledge and Health City, In the end of Shahid Fakouri Blvd (In front of Fakouri 94)

City
Mashhad

Province
Razavi Khorasan

Postal code
99191-91778

Phone
+98 51 3841 2081

Email
p.relations@mums.ac.ir

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
Amirreza Nasirzadeh

Position
Student of nursing

Latest degree
Bachelor

Other areas of specialty/work
Nursery

Street address
Daneshgah Ave, Nursing and Midwifery School, Mashhad.

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Person responsible for scientific inquiries

Contact

Name of organization / entity
Mashhad University of Medical Sciences

Full name of responsible person
Razieh Froutan

Position
Associate Professor of Nursing

Latest degree
Ph.D.

Other areas of specialty/work
Nursery

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Daneshgah Ave, Nursing and Midwifery School, Mashhad.

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Person responsible for updating data

Contact

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Position
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Latest degree
Bachelor

Other areas of specialty/work
Nursery

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Email
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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
Yes - There is a plan to make this available

Title and more details about the data/document
Some findings will be published as major results

When the data will become available and for how long
one year after publication of results

To whom data/document is available
Researchers who are researching in this field (improving the quality of learning).

Under which criteria data/document could be used
Analysis of primary variables

From where data/document is obtainable
Researcher's email

What processes are involved for a request to access data/document
داده ها پس از 1ماه در اختیار متقاضیان قرار داده می شود.

Comments