

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 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

Street address

Daneshgah Ave, Nursing and Midwifery School, Mashhad.

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Phone

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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

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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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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

Student of nursing

Latest degree

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Other areas of specialty/work

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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 1 ماه در اختیار متقاضیان قرار داده می شود

Comments