Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The effectiveness of self- learning module on the nursing students' clinical competency

Protocol summary

Study aim
Determining the mean of clinical competency scores in the control group in nursing students. Determination of mean clinical competency score in intervention group in nursing students. Comparison of the mean of clinical competency scores in the control group with the intervention group in nursing students.

Design
In this single blind study, participants have been randomly assigned to two groups of control.

Settings and conduct
This study was conducted on nursing graduate students as participation at Hamedan Nursing Faculty who completed clinical lessons.

Participants/Inclusion and exclusion criteria
Attend nursing clinical skills classes; absence in the Objective Structured Clinical Examination

Intervention groups
Clinical skills training based on the nursing course syllabus was routinely provided to the control and test group at the clinical skills center. Then one week before the Objective Structured Clinical Examination, a clinical skill module based on learning objectives was provided to the test group Took Oscillation tests were first taken from the control group and then from the test group. The format of each module includes 1. Introduction 2. The goals of the self-learning module 3. The content of the study program and the various questions to evaluate students' learning and exercises repeatedly with the response to instant feedback, tables, pictures, videos and audio that help students to learn deeply. 4. Additional resources (books, websites)5. Assessment questionnaire.

Main outcome variables
Clinical competence, clinical skills

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20170611034457N2**
Registration date: **2018-08-26, 1397/06/04**
Registration timing: **retrospective**

Last update: **2018-08-26, 1397/06/04**
Update count: **0**

Registration date
2018-08-26, 1397/06/04

Registrant information

Name
Shahin Tohidi

Name of organization / entity
lorestan University of Medical Sciences

Country
Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2016-08-05, 1395/05/15

Expected recruitment end date
2017-04-04, 1396/01/15

Actual recruitment start date
2016-08-02, 1395/05/12

Actual recruitment end date
2017-04-04, 1396/01/15

Trial completion date
empty

Scientific title
The effectiveness of self- learning module on the nursing students' clinical competency

Public title
Self- learning module
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
Attend nursing clinical skills classes Term Student is a nursing bachelor
Exclusion criteria:
Absence in the Associate Exam History of participation in clinical skills training courses
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked

- Outcome assessor

Sample size
Target sample size: **46**
Actual sample size reached: **46**
Randomization (investigator's opinion)
Randomized
Randomization description
All of the semester students were a nursing bachelor who had entry criteria for inclusion in the study. According to the classification of the students by the clinical affairs of this faculty, they were randomly assigned (in alphabetical order), so the students were randomly assigned to two groups and each group was randomly assigned to the control group and the clinical skills module.
Blinding (investigator's opinion)
Single blinded
Blinding description
After conducting intervention and education to the students, the assessor evaluated the students' clinical skills during the OSCE Test without knowing the division of the subjects in the intervention and test groups.
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
کمیته اخلاق دانشگاه علوم پزشکی همدان
Street address
Hamedan University of Medical Sciences, Shahid Fahmideh St.
City
Hamedan
Province
Hamadan
Postal code
65178
Approval date
2016-08-05, 1395/05/15
Ethics committee reference number
IR.UMSHA.REC.1395.129

Health conditions studied

1

Description of health condition studied
Student learning
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Clinical skill
Timepoint
After the intervention
Method of measurement
Objective Structured Clinical Examination

Secondary outcomes

empty

Intervention groups

1

Description
Control group: Preparation of a self-learning module based on learning goals and clinical skills training is performed on the test group with the usual method and then the OSCE test.
Category
N/A

2

Description
Intervention group: Preparing a self-learning module based on the goals of learning and teaching clinical skills to the intervention group with the usual method and the self-study module and then the OSCE test.
Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
دانشگاه علوم پزشکی همدان

Full name of responsible person
Saeed Bashirian

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Sponsors / Funding sources

1

Sponsor

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Hamedan University of Medical Sciences

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Grant name

Grant code / Reference number

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

Title of funding source
Hamedan 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
Hamedan University of Medical Sciences

Full name of responsible person
Shahin Tohidi

Position
Lecturer

Latest degree
Master

Other areas of specialty/work
Nursery

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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
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
Available at the Central Library of Hamedan University of Medical Sciences
When the data will become available and for how long
Available from 15 01 1396
To whom data/document is available
Based on the agreement and laws of the Hamdan University of Medical Sciences
Under which criteria data/document could be used
Based on the agreement and laws of the Hamdan University of Medical Sciences
From where data/document is obtainable
Based on the agreement and laws of the Hamdan University of Medical Sciences
What processes are involved for a request to access data/document
Based on the agreement and laws of the Hamdan University of Medical Sciences
Comments