

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 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)

##### Phone

+98 916 159 3538

##### Email address

sh.tohidi@umsha.ac.ir

##### 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

**Street address**

Hamedan University of Medical Sciences, Shahid Fahmideh St.

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**Province**

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**Postal code**

65178

**Phone**

+98 81 3838 0717

**Email**

m\_research@umsha.ac.ir

**Web page address**

<http://course.umsha.ac.ir/default/about>

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Hamedan University of Medical Sciences

**Full name of responsible person**

Saeed Bashirian

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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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## Person responsible for scientific inquiries

### Contact

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Hamedan University of Medical Sciences

**Full name of responsible person**

Shahin Tohidi

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## Person responsible for updating data

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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**