

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

22 Jun 2026

### The effect of Integrating e-learning and collaborative learning method in nursing care of sick child lesson on academic self-efficacy of nursing students

#### Protocol summary

##### Study aim

Determination and comparison of mean scores of academic self-efficacy among nursing students in Urmia nursing and midwifery faculty before and after intervention in 2018

##### Design

All nursing students in the 5th semester will be entered into the intervention group in Whole number, non-blind manner.

##### Settings and conduct

After approval of the research project and approval of the ethical committee of the university and coordination with the director of the relevant group, the researchers will study the nursing students of the fifth semester of nursing semester in Autumn 2018 as a whole number. The training combines two methods of e-learning with LMS and collaborative learning in 10 steps with the formation of groups of 5 people using the same lecturer in one semester during 14 sessions of 150 minutes for nursing students in the fifth semester.

##### Participants/Inclusion and exclusion criteria

Inter criteria: All five semester nursing students studying at Urmia Nursing and Midwifery Faculty  
Exit criteria: Absence of more than 2 sessions and no referral to the LMS system

##### Intervention groups

The curriculum will be presented in conjunction with the faculty education using the same lecturer in one semester at 14 sessions of 150 minutes for nursing students in term 5. These meetings will be taught in a combination of both e-learning and participatory methods. Curriculum content on care nursing of ill child is based on the outline of the cultural revolution and the goals of the course, in coordination with the use of the main sources of the course (nursing a sick child) and scientific resources in the opinion of nursing and medical experts. The study is a single-group and before and after

intervention.

##### Main outcome variables

Improvement of academic self-efficacy of students in the course of nursing care of a child after intervention, improving the quality of education and improving the educational status

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20181022041419N3**

Registration date: **2019-01-13, 1397/10/23**

Registration timing: **registered\_while\_recruiting**

Last update: **2019-01-13, 1397/10/23**

Update count: **0**

##### Registration date

2019-01-13, 1397/10/23

##### Registrant information

##### Name

Sima Pourteimour

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 44 3338 7708

##### Email address

simapure@yahoo.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-11-01, 1397/08/10

##### Expected recruitment end date

2019-06-20, 1398/03/30  
**Actual recruitment start date**  
empty  
**Actual recruitment end date**  
empty  
**Trial completion date**  
empty  
**Scientific title**  
The effect of Integrating e-learning and collaborative learning method in nursing care of sick child lesson on academic self-efficacy of nursing students  
**Public title**  
The Effect of Combining e-Learning and Participatory Learning Methods in Patient-Child Nursing Career Course on Academic Self-efficacy of Nursing Students in Urmia Nursing and Midwifery Faculty in 2018  
**Purpose**  
Education/Guidance  
**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
All five semester nursing students studying at Urmia Nursing and Midwifery Faculty  
**Exclusion criteria:**  
Absence of more than 2 sessions and no referral to the LMS system  
**Age**  
No age limit  
**Gender**  
Both  
**Phase**  
N/A  
**Groups that have been masked**  
*No information*  
**Sample size**  
Target sample size: 50  
**Randomization (investigator's opinion)**  
N/A  
**Randomization description**  
**Blinding (investigator's opinion)**  
Not blinded  
**Blinding description**  
**Placebo**  
Not used  
**Assignment**  
Single  
**Other design features**

## Secondary Iids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Urmia University of Medical Sciences

##### Street address

Deputy Head of Research & Technology, University Headquarters, End of Emergency Department, Resalat Boulevard, Urmia

#### City

Urmia

#### Province

West Azarbaijan

#### Postal code

5714783734

#### Approval date

2018-10-31, 1397/08/09

#### Ethics committee reference number

IR.UMSU.REC.1397.146

## Health conditions studied

### 1

#### Description of health condition studied

Nursing care of sick child lesson

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Academic self-efficacy

#### Timepoint

The first session of the classroom and the last session of the classroom

#### Method of measurement

College Academic Self-Efficacy Owen & Fronman

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: At the meetings, the participatory learning method will be divided into groups of 5 students and will learn the lessons in 14 sessions of 150 minutes with using 10 steps. In this way, the professor will divide the subject of teaching into parts, giving each department a group. Then members of each group will form specialized teams to learn the subject and report it to other members of the group. Finally, the groups will summarize the issues with the teacher. The main tasks of the professor in this method are in addition to providing the lesson plan for each session, guiding and guiding the groups, providing the necessary facilities, evaluating and monitoring the work of the groups and providing feedback. At the end of the session, a brief overview will be provided on the lessons to be given about the course and will be requested to be trained electronically for the same session. (10 steps of participatory learning Including: 1- students in groups of

5-6 people matched in terms of gender and gender. 2- Dividing the lesson subjects into sections 5 to 6 for each group. 3- Assign each student to study the specified section. 4. Emphasis on studying twice without remembering the contents. 5. Select the leader group for each group. 6. After discussing the topic, the six groups will discuss the ambiguities and points of their group by gathering in another expert group. 8 and 7- By returning to their group and providing the necessary information and information to their cohorts. 9- The instructor will solve the problems and questions of each group by circulating in groups. 10- Summing up and asking questions to identify the top group). An e-learning approach based on an Intelligent Classroom Learning Management System will be completed on the weekend (Friday) after the end of each participatory learning session. All content provided in collaborative learning will be provided electronically, and will emphasize that the assignments of each session will only be e-mailed to provide an incentive to refer students to the learning management system. The feedback will be about student ambiguity and questions through the same system.

**Category**

Other

**2**

**Description**

Control group: It will be taken as a single intervention group without a control group.

**Category**

Other

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Urmia Nursing and Midwifery Faculty

**Full name of responsible person**

Sima Pourteimour

**Street address**

Nazlou Campus Building Faculty of Nursing and Midwifery, 11 km Sero, Urmia, West Azarbaijan, Iran

**City**

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+98 44 3275 4963

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**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Oroumia University of Medical Sciences

**Full name of responsible person**

Dr. Iraj Mohebi

**Street address**

Deputy Head of Research & Technology, University Headquarters, Emergency cuticle end, Resalat Boulevard, Urmia

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mohebbi\_iraj@yahoo.com

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Oroumia 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**

Oroumia University of Medical Sciences

**Full name of responsible person**

Sima Pourteimour

**Position**

faculty member Instructor

**Latest degree**

Master

**Other areas of specialty/work**

Nursery

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## Person responsible for scientific inquiries

### Contact

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**Position**

faculty member Instructor

**Latest degree**

Master

**Other areas of specialty/work**

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## Person responsible for updating data

### Contact

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Oroumia University of Medical Sciences

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**Position**

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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**

No - There is not a plan to make this available

**Analytic Code**

No - There is not a plan to make this available

**Data Dictionary**

No - There is not a plan to make this available

**Title and more details about the data/document**

Only part of the original outcome information can be shared.

**When the data will become available and for how long**

Six months after the publication of the article

**To whom data/document is available**

Researchers working in academic and scientific institutions

**Under which criteria data/document could be used**

Send an email to the person responsible for allowing any analysis on the data

**From where data/document is obtainable**

simapure@yahoo.com

**What processes are involved for a request to access data/document**

After submitting the email with the permission of the administrators, the corresponding file will be sent.

**Comments**