Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

The impact of the Jigsaw Cooperative Learning Model on nursing student Clinical skills

Protocol summary

Summary

Any simplicity in education can lead to the loss of forces and facilities, and the failure to achieve educational goals or to reduce the quality of training. This issue is more important in nursing education because nurse education is empowered and competent and has the knowledge, attitude, and skills needed to maintain and improve the health of the community. Since the most important element in the intensive care unit is the nursing staff, it is constantly and in times of emergency that has the power to make immediate decisions and carry out different nursing processes. Therefore, attention to how the clinical education of nursing students during the training and apprenticeship in critical care units is very important because it can be important to shaping their careers in the future. This will not be achieved as long as effective teaching strategies-learning is used in clinical education in students. The present study is a semi-experimental study, which includes all 6 and 7th-semester nursing students who are studying in the first semester of 1396-1397. First, all students will select by census and then divide randomly into intervention and control groups. The researcher in the intervention and control group will train about the topics related to the ICU internship by the conventional way and Jigsaw-based teaching model respectively. The data collection tool will include a multiple choice test for assessing cognitive skills and a checklist for assessing clinical students' skills. The data collected by the SPSS software version 19 will be examined. To access the research objectives, descriptive statistics (frequency distribution, mean, standard deviation), analytical statistics methods, and if necessary correlation will be used.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017100236509N1**
Registration date: **2017-10-29, 1396/08/07**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-10-29, 1396/08/07

Registrant information

Name

Osman Wosoi Delavan

Name of organization / entity

Urmia University of Medical Siences

Country

Iran (Islamic Republic of)

Phone

+98 44 3275 4961

Email address

parastari.bep@umsu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for research of Urmia University of Medical Sciences

Expected recruitment start date

2017-09-16, 1396/06/25

Expected recruitment end date

2017-12-21, 1396/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The impact of the Jigsaw Cooperative Learning Model on nursing student Clinical skills

Public title
The impact of the Jigsaw Cooperative Learning Model on nursing student Clinical skills
Purpose
Health service research
Inclusion/Exclusion criteria
Inclusion criteria: 1) All research subjects should be studying 6 and 7th-semester nursing students of Faculty of Nursing and Midwifery, Urmia University of Medical Sciences, in the first semester of the academic year-97-96 2) All of these students are passing the ICU internship unit 3) None of the studied units should be familiar with the method of teaching based on Jigsaw and working according to a clinical record book. Exclusion criteria: Student acquaintance with Jigsaw-based Learning Model and lack of willingness of subjects to continue to participate in research.
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **70**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features
Randomization in this study will do based on the simple random sampling using a random number table.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Urmia University of Medical Sciences
Street address
Urmia, Resalat Boulevard,Vice-chancellor for research of Urmia University of Medical Sciences
City
Urmia
Postal code
5714783734
Approval date
2017-09-13, 1396/06/22
Ethics committee reference number
1396-09-33-3035

Health conditions studied

1

Description of health condition studied
jigsaw-based teaching model
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Clinical Skills of Nursing Students in ICU
Timepoint
three months
Method of measurement
Observational checklist for assessing clinical students' skills

2

Description
Cognitive Skills of Nursing Students in ICU
Timepoint
three months
Method of measurement
Researcher's made Cognitive Skills Assessment Test

Secondary outcomes

1

Description
Jigsaw Cooperative Learning Model
Timepoint
three months
Method of measurement
Checking Average Scores

Intervention groups

1

Description
In the intervention group, teaching internship of the intensive care unit will be based on jigsaw Cooperative Learning Model and in the control group will be based on conventional method.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center

Taleghani hospital of Urmia University of medical sciences

Full name of responsible person
Jamileh Sayed Bagheri

Street address
29 Bahman Blvd. 29 Bahman Hospital

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice-chancellor for research of Urmia University of Medical Sciences

Full name of responsible person
Vice-chancellor for research

Street address
Resalat Boulevard

City
Urmia

Grant name
-

Grant code / Reference number
-

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

Title of funding source
Vice-chancellor for research of Urmia University of Medical Sciences

Proportion provided by this source
100

Public or private sector
empty

Domestic or foreign origin
empty

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

Name of organization / entity
Urmia University of Medical Sciences

Full name of responsible person
Jamileh Sayed Bagheri

Position
MSc student

Other areas of specialty/work

Street address
29 Bahman Blvd. 29 Bahman Hospital

City
Tabriz

Postal code

Phone
+98 41366776653

Fax

Email
jamil.atash@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Faculty of Nursing and Midwifery, Urmia University of Medical Sciences

Full name of responsible person
Dr. Hossein Habibzadeh

Position
Ph.D

Other areas of specialty/work

Street address
Sero Road, Pardis Nazlou

City
Urmia

Postal code
5714783734

Phone
+98 44 3275 4918

Fax
+98 44 3275 4913

Email
Habibz_h@yahoo.com

Web page address
umsu.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Urmia University of Medical Siences

Full name of responsible person
Jamileh Sayed Bagheri

Position
MSc student

Other areas of specialty/work

Street address
29 Bahman Blvd. 29 Bahman Hospital

City
Tabriz

Postal code
5158899343

Phone
+98 41 3668 1163

Fax

Email
jamil.atash@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty

Study Protocol
empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty