Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison of the effect of patient safety management training using flipped classroom method by near peer group and common method on the durability of nursing and midwifery students’ knowledge in Bushehr university of Medical Sciences in 2019

Protocol summary

Study aim
Determining and comparison of the effect of patient safety management training using flipped classroom method by neer peer group and common method on the durability of nursing students’ knowledge retention

Design
Semi-experimental with pre-test and post-test design with control group. Four Solomon groups are used in this study; randomized.

Settings and conduct
This study will be conducted by nursing and midwifery students of Bushehr University of Medical Sciences.

Participants/Inclusion and exclusion criteria
Inclusion criteria: access to a computer or smartphone; tending to participate in research. Exit criteria: absence in the classroom; not viewing educational content.

Intervention groups
During one session, the description of the method of work and the purpose of doing it for the students and obtaining written informed consent from them, as well as taking the pre-test from the intervention and control groups 1 in this session. First, the control group will provide the patient's safety management training in a conventional way (a workshop approach at a 6-hour session) by the relevant teacher, and then during a session, the two intervention intervention groups will be presented as flipped classroom method by neer peer group; the teacher (neer peer) to teach the reverse engineering class of the educational content of patient safety management and to download it electronically 2 weeks before the start of the class on the website to be provided to the two intervention groups. There are standard clinical concepts for concepts in the classroom. And learners in the classroom by analyzing and answering related questions Clinical scenarios become familiar with the application of theoretical knowledge in clinical settings.

Main outcome variables
Increasing the thought of learning patient safety in students; improve patient safety; helping to shorten the nursing faculty members

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20090522001930N3**
Registration date: **2019-03-18, 1397/12/27**
Registration timing: **prospective**

Last update: **2019-03-18, 1397/12/27**
Update count: **0**

Registration date
2019-03-18, 1397/12/27

Registrant information

Name
Hakimeh Vahedparast

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 77 1252 8498

Email address
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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-04-19, 1398/01/30

Expected recruitment end date
2019-06-21, 1398/03/31
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparison of the effect of patient safety management training using flipped classroom method by near peer group and common method on the durability of nursing and midwifery students' knowledge in Bushehr university of Medical Sciences in 2019

Public title
Comparison of the effect of patient safety management training using flipped classroom method by near peer group and common method on the durability knowledge
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
Nursing and midwifery student of Bushehr University of Medical Sciences Have access to a computer or smartphone Tend to participate in research
Exclusion criteria:
Absence in the classroom anyway Not viewing educational content
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **80**
Randomization (investigator's opinion)
Randomized
Randomization description
Sampling is complete and based on the purpose and then the random allocation, which students are randomly divided into four groups of 22 people using the blocking method (four-group Solomon plan). The researcher randomly divided the two groups into an intervention group (intervention group 1 and intervention group 2) and the other two groups as control group (control group 1 and control group 2).
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
In this research, four groups of Solomon are used. The researcher randomly divided the two groups into an intervention group (intervention group 1 and intervention group 2) and the other two groups as control group (control group 1 and control group 2). Only the intervention group (1) and the control group (1) are pre-test, and then from each of the four groups, the post-test is immediately and two months after the training.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Bushehr University of Medical Sciences
Street address
Bushehr - Bahmani - Sabz Abad Blvd - Salman Farsi Street - Salman Farsi Hospital (Social Security) - Pardis Complex Bushehr University of Medical Sciences
City
Bushehr
Province
Boushehr
Postal code
7518759577
Approval date
2019-03-06, 1397/12/15
Ethics committee reference number
IR.BPUMS.REC.1397.128

Health conditions studied

1

Description of health condition studied
Patient safety management training
ICD-10 code
ICD-10 code description

2

Description of health condition studied
using flipped classroom method by neer peer group
ICD-10 code
ICD-10 code description

3

Description of health condition studied
Knowledge Retention
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description

Knowledge Retention

Timepoint

Pre-test pre-intervention and post-test immediately after intervention and knowledge-durability test two months after intervention

Method of measurement

Examination of four questions related to patient safety (researcher-made)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Intervention 1. Obtain a pre-test before intervention and continue to provide online safety management training online for two weeks and continue to hold the classroom as a reciprocal class by close counterpart with the design of clinical scenarios and taking post-test immediately after intervention And two months later

Category

N/A

2

Description

Intervention group: Intervention 2. No pretest. Initially provide the online safety management training content online for two weeks and continue the classroom reciprocity by close counterpart with clinical scenario design and post-test taking immediately after the intervention and two months later.

Category

N/A

3

Description

Control group: Control 1. Getting a pre-test and continuing the workshop on patient safety management by the corresponding teacher and taking the post-test immediately after the class and two months later.

Category

N/A

4

Description

Control group: Control 2. Pre-test and continue the workshop on safety management of the patient by the relevant teacher and taking post-test immediately after the class and two months later.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Bushehr University of Medical Sciences, Faculty of Nursing and Midwifery

Full name of responsible person

Sima Pourmehdi Golaki

Street address

Bahmani - Sabz Abad Blvd - Salman Farsi Street - After Salman Farsi Hospital (Social Security) - Campus Complex of Bushehr University of Medical Sciences

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Boushehr University of Medical Sciences

Full name of responsible person

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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

Boushehr 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

Boushehr University of Medical Sciences

Full name of responsible person

Hakimeh Vahedparast

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no program for its release

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available