

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 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 near 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 near peer group; the teacher (near 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 near 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

Dr. Alireza Khamisipour

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

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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

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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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Full name of responsible person

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Other areas of specialty/work

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Other areas of specialty/work

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Postal code

7518759577

Phone**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