

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

16 Sep 2026

### Comparison of two blended teaching and learning process in the course of routine patient education on knowledge, satisfaction and performance of the Undergraduate Nursing → Mandy Tehran University of Medical Sciences

#### Protocol summary

##### Summary

Main objectives: to determine and compare the effectiveness of two teaching methods used in teaching learning process and the principles of fusion and patient education on knowledge, satisfaction - satisfaction and performance of nursing students in Tehran University of Medical Sciences. Secondary objectives of the project: 1. Determination and comparison of nursing students in the experimental and control groups before and after intervention. 2\_ determine and compare the level of satisfaction among nursing students in the experimental and control groups before and after intervention 3 - Determine and compare students' performance scores in the experimental and control groups before and after intervention. This study is quasi-experimental . After obtaining necessary licenses and permits from the masters of the whole class → lesson Patient education ( 4th grade ) to be selected by using simple random sampling , two experimental and control groups will be divided , then the researcher now the classes and after their introduction , the importance of information and research objectives of this study will be . patient education program for patients in the design, implementation and evaluation of the classes presented orally and then in writing, of his project " will deliver . Teaching methods in the theory of groups is a combination of lecture and Q & A In the practical part of the research will begin in the first class session, students are divided into 5 groups of 6-8 (39-31 people total students) divided And they will want to end the session on education topics to patients based on their interest , help the teacher and the researcher chose to start writing the script . The seventh session of the course , before classes begin → questionnaire concerning the knowledge and consent of the students in the experimental group and the control and the delivery will

be completed . Then the scenarios by the researcher , lecturer , writer and expert in the course of writing the script , with the knowledge seekers → Each group will review several sessions according to their needs .

Practical exercises in the practice rooms of different roles , including patients , families, patients , nurses , doctors and other health care team when necessary , such as physiotherapists , occupational therapists and a dietitian will perform. After preparation of the scenes filmed in the classroom will be presented . Then on the last day of class → questionnaire on knowledge and satisfaction of students will be placed in the test and control groups . Assessment of student performance in the clinical control groups in terms of measures of patient information intervention and interaction with the nurse will be done . To evaluate student performance, each student will have two patient samples . After collecting data using Spss software version 14 using descriptive and inferential statistical methods of data analysis will be →

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013100214856N1**

Registration date: **2013-11-09, 1392/08/18**

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

Last update:

Update count: **0**

##### Registration date

2013-11-09, 1392/08/18

##### Registrant information

##### Name

Narjes Mohammadpour

##### Name of organization / entity

Tehran University of Medical Sciences, School of Nursing and Midwifery

**Country**

Iran (Islamic Republic of)

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**Email address**

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**Recruitment status**

**Recruitment complete**

**Funding source**

Research Council of Tehran University of Medical Sciences

**Expected recruitment start date**

2013-10-23, 1392/08/01

**Expected recruitment end date**

2015-02-19, 1393/11/30

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparison of two blended teaching and learning process in the course of routine patient education on knowledge, satisfaction and performance of the Undergraduate Nursing – Mandy Tehran University of Medical Sciences

**Public title**

Comparison of two blended teaching and learning process in the course of routine patient education on knowledge, satisfaction and performance of the Undergraduate Nursing – Mandy Tehran University of Medical Sciences

**Purpose**

Prevention

**Inclusion/Exclusion criteria**

Inclusion criteria: all nursing students during the first semester of the academic education of students who passed during 2012-2013. All patients who were admitted in the hospital during the trial on these students.  
Exclusion criteria: student consent to participate in this project from the beginning, or the patient's consent to participate in this study

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: **304**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

**Blinding (investigator's opinion)**

Not blinded

**Blinding description**

**Placebo**

Not used

**Assignment**

Parallel

**Other design features**

**Secondary Ids**

empty

**Ethics committees**

**1**

**Ethics committee**

**Name of ethics committee**

School of Nursing and Midwifery, Tehran University of Medical Sciences

**Street address**

Tehran, tohid Square, N. Eastern Avenue, School of Nursing and Midwifery

**City**

Tehran

**Postal code**

**Approval date**

2013-08-11, 1392/05/20

**Ethics committee reference number**

21561

**Health conditions studied**

**1**

**Description of health condition studied**

Knowledge, satisfaction, performance

**ICD-10 code**

**ICD-10 code description**

**Primary outcomes**

**1**

**Description**

Knowledge

**Timepoint**

Assessment of student knowledge both before and after the intervention is done. Assess student performance in school next semester and is in clinical environments.

**Method of measurement**

The purpose of this study, the scores of students – nursing knowledge assessment tool, which uses multiple-choice questions designed by the researcher and will be measured with a minimum score of zero and a maximum score of 21.

**2**

**Description**

Satisfaction

### Timepoint

ارزیابی رضایتمندی دانشجویان هم قبل از انجام و هم پس از انجام مداخله انجام می شود. Evaluating students' satisfaction both before and after the intervention, the intervention is done.

### Method of measurement

In order to study the satisfaction level of education, satisfaction and student learning method is presented which uses the tools to measure the level of satisfaction – take place. Measure the level of satisfaction based on Likert scale of 1 to 5 scale divisions will be completely dissatisfied to 5 very satisfied.

## 3

### Description

Performance

### Timepoint

Assessment of student performance in school next semester and is in clinical environments.

### Method of measurement

In order to study the performance of the main activities that a graduate nurse should position the patient to perform the operation in the field of education, which can – area of education, the interaction of communication and collaboration is. Assessment of student performance in the test and control groups in the second half year 1393-1392 using the scale clinical patient data and caregiver interaction is done. The scale contains 21 such that the patient can function in nursing education describes –. To evaluate student performance, each student will have a minimum of a patient survey

## Secondary outcomes

## 1

### Description

One of the main roles of professional nursing education. Today's nursing students are coming from, where –, – active teaching methods to apply the valuable outcomes such as attitude change and reform, strengthening active participation of learners, creative and dynamic interaction, promote critical thinking, increased confidence reduction of fear and competence in the areas of real anxiety and improve student learning in various areas and will ultimately provide a quality education

### Timepoint

Variables are evaluated before and after intervention.

### Method of measurement

How to measure three variables is described in the previous section After analyzing the data and draw conclusions about appropriate teaching methods best and most practical way to achieve the desired objectives can be selected.

## Intervention groups

## 1

### Description

This study is quasi-experimental. To do scholar with the permission of the authorities concerned, the authorities and the introduction of a learning course in college professors who will client and Department of Education, and simple random method, of students in the two groups and control will be distributed. Method of teaching groups is a combination of theory and practical part of the lecture and question and answer will be the researcher in the first sessions a class, the students of the groups to 5 groups of 6-8 (thirty-nine of total students for - 31 people) and they will be until the end of the second session on education topics to patients based on their interest, help the teacher and the researcher chose and started writing a scenario should be noted that the experts in the colleague script writing, directing, and will be used in all phases of research, Students will also ensure accountability and fix the problems that researchers in the field of integrated education be available, and throughout the intervention Saturdays a Saturday as the and Wednesday every week at the School of Tuesday and other students will be contacted by telephone during the week. The seventh session of lessons before class and student satisfaction questionnaire to the students in the experimental group and the delivery will be completed. In the next stage of the reform scenarios were developed, each group of students planned process based on the training curriculum provided by the researcher to be delivered to the patient And after final practical exercises in the practice rooms of different roles, including patients, families, patients, nurses, and other members of the treatment team will conduct the necessary Srt. After preparation of the scenes filmed at the ninth session before the practical work, students will then present their research and criticism of the film. The researcher and teacher discussion and conclusions regarding the proposed pay movies. Finally, "the last day of class – questionnaire concerning the knowledge and consent of the student will be placed on experimental group. After the students submitted the questionnaires, the film is presented in the form of groups of controls will be placed on CD. It should also be noted that the CD will be ready in audiovisual archiving School. Assessment of student performance in the test and control groups in the second half year 1393-1392 using the scale clinical patient data and caregiver interaction is done. To evaluate student performance, each student will have a minimum of a patient survey.

### Category

Other

## 2

### Description

Teaching methods in control theory and practical part of lecture and question and answer so that students will be divided into 5 groups of 8-6 (Total students was 36-31) into the And asks them to select a topic based on a real case And follow the steps for patient education, an education program for patients, design, implementation, and evaluation of orally presented in class and in writing of his project "will deliver. The seventh session of lessons before class and student satisfaction questionnaire to the

students in the control group and the delivery will be completed. Finally, "the last day of class → questionnaire regarding knowledge and satisfaction of students will be placed in the control group and the delivery will be completed. To evaluate student performance, each student will have a minimum of a patient survey

#### Category

Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

School of Nursing and Midwifery, Tehran University of Medical Sciences

##### Full name of responsible person

Dr Mansureh Farahani

##### Street address

Tohid Square, Nosrat Eastern Avenue, School of Nursing and Midwifery

##### City

Tehran

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Deputy of Research, Tehran University of Medical Sciences

##### Full name of responsible person

Dr Masood Yunesian

##### Street address

Tehran University of Medical Sciences

##### City

Tehran

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Deputy of Research, Tehran 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

School of Nursing and Midwifery, Tehran University of Medical Sciences

##### Full name of responsible person

Narjes Mohammadpour

##### Position

MSc student of nursing

##### Other areas of specialty/work

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## Person responsible for scientific inquiries

#### Contact

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Associate professor

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## Person responsible for updating data

#### Contact

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**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*