

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Jun 2026

### Comparison between impacts of two methods of teaching ethics, lectures and learning based on problem-solving, on students' moral sensitivity and reasoning in Hamadan University of Medical Sciences

#### Protocol summary

##### Summary

This research is an intervention study that compares the impacts of two methods of ethics education, lectures and problem-based learning, on moral sensitivity and reasoning of nursing students of Hamedan University of medical science. In this study, fourth-year nursing students (semester seven and eight) based on drawing, are divided into two classes of lecture and problem-based learning (PBL). Then nursing ethics education programs include definitions of ethics, ethics areas of study, importance of ethics in nursing, nursing ethics principles and their definition (autonomy, confidentiality, accountability, etc.), professional ethics, codes of nursing ethics, approaches to ethical decision making and ethical decision-making process are developed. Contents of both education program are the same, except one of them uses PBL and the other uses lecture learning method. First, goals, intervention methods and appraisal procedure are presented. Before beginning the course, both classes are examined using research tools including ethical sensitivity in decision making and ethical reasoning questionnaire "nursing dilemma test". The only difference between two classes is in ethical scenario solution, which in lecture class is provided by educator and in PBL class by students. The contents provided for two classes are the same. Sampling method is enumeration. The sample size of students of semester 7 and 8 are 41 and 39 respectively.

#### General information

##### Acronym

nursing ethics education

##### IRCT registration information

IRCT registration number: **IRCT2014052417821N1**

Registration date: **2014-11-09, 1393/08/18**

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

Last update:

Update count: **0**

##### Registration date

2014-11-09, 1393/08/18

##### Registrant information

###### Name

Seyede Nayereh Falahan

###### Name of organization / entity

Hamedan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 81 3838 0150

###### Email address

n.falahiyan@umsha.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Hamedan University of Medical Sciences

##### Expected recruitment start date

2014-01-01, 1392/10/11

##### Expected recruitment end date

2014-12-30, 1393/10/09

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison between impacts of two methods of teaching ethics, lectures and learning based on problem-solving, on students' moral sensitivity and reasoning in Hamadan University of Medical Sciences

##### Public title

Nursing ethics education impact on the moral sensitivity and reasoning of nursing students

#### **Purpose**

Other

#### **Inclusion/Exclusion criteria**

Inclusion criteria Student should be in internship period (semester seven and eight); Student should not have passed nursing ethics course; Students must consent (either formally or informally) to participate in sessions.

Exclusion criteria: Failure to attend training sessions; Having missed more than one session.

#### **Age**

No age limit

#### **Gender**

Both

#### **Phase**

N/A

#### **Groups that have been masked**

No information

#### **Sample size**

Target sample size: 66

#### **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 Ids**

empty

## **Ethics committees**

### **1**

#### **Ethics committee**

##### **Name of ethics committee**

Hamedan University of Medical Sciences

##### **Street address**

Hamedan- Pajouhesh square- Shahid Fahmideh  
Boulevard- Hamedan University of Medical Sciences

##### **City**

Hamedan

##### **Postal code**

65167

#### **Approval date**

2014-05-17, 1393/02/27

#### **Ethics committee reference number**

16/35/9/706/پ

## **Health conditions studied**

### **1**

#### **Description of health condition studied**

Ethics in nursing students

#### **ICD-10 code**

Z51

#### **ICD-10 code description**

Other medical care

## **Primary outcomes**

### **1**

#### **Description**

Nursing students' moral sensitivity- nursing students' moral reasoning

#### **Timepoint**

Pre-education- just after education- one month after education

#### **Method of measurement**

Standard questionnaire of nursing students' moral sensitivity- questionnaire of moral reasoning in nursing

## **Secondary outcomes**

empty

## **Intervention groups**

### **1**

#### **Description**

In this study, senior students of a 4-year nursing program, based on drawing, are divided into two classes of lecture and problem-based learning (PBL). Then nursing ethics education programs include definitions of ethics, ethics areas of study, importance of ethics in nursing, nursing ethics principles and their definition (autonomy, confidentiality, accountability, etc.), professional ethics, codes of nursing ethics, approaches to ethical decision making and ethical decision-making process are developed. Contents of both education program are the same; except in lecture method scenarios (newborn with anomalies, Terminally ill adult, forcing medication, medication error, new nurse orientation, adult's request to die) are solved by the educator; but in PBL class, students solve the problem based on educated steps of mixed nursing process pattern and problem-based learning. Education time for the lecture class was two 4-hour sessions and for PBL class four 2-hour sessions. First, goals, intervention method and appraisal procedure were presented for both classes. Before beginning of the course, Both classes were assessed using research tools including standard moral Sensitivity questionnaire and nursing moral reasoning questionnaire. For PBL class, first, goals and methods of education based on problem-solving were explained and students were divided into groups of 6-7. In first 2 hours of course for both classes, ethics content presented by researcher as lecture. Then, for lecture class, ethical scenarios were presented and solved by researcher. In PBL class, an advisor selected for each group, and the students were asked to solve the scenarios in a week according to following steps: step1: providing the students with copies of scenarios. Step2:

Identifying and understanding the problem and determining ambiguous and unintelligible words. Step3: analyzing and clearly describing the problem and designing methodology questions of the problem (brainstorming). Step4: questions were categorized according to their subjects. Step5: Setting objectives and priorities. Step6: gathering information. Step7: Existing solutions were written based on findings and were rated based on meeting the objectives. At the end of the training sessions, both classes were assessed using post-test and after a month the test was repeated.

**Category**

N/A

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Hamedan school of nursing and midwifery

**Full name of responsible person**

PhD Khudayar Oshvandi

**Street address**

Hamedan, Pajouhesh square, Shahid Fahmideh Boulevard- Hamedan University of Medical Sciences- school of nursing and midwifery

**City**

Hamedan

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Hamedan University of Medical Sciences Deputy of Research

**Full name of responsible person**

Said BashirianPhD

**Street address**

hamedan-bolvar shahid fahmideh-Hamedan University of Medical

**City**

hamedan

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Hamedan University of Medical Sciences Deputy of Research

**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**

Hamedan University of Medical Sciences

**Full name of responsible person**

Seyede Nayereh Falahan

**Position**

Master of science in nursing education

**Other areas of specialty/work**

**Street address**

Hamedan- Pajouhesh square- Shahid Fahmideh Boulevard- Hamedan University of Medical Sciences - school of nursing and midwifery

**City**

Hamedan

**Postal code**

**Phone**

+98 81 3837 1986

**Fax**

**Email**

nfalahan92@gmail.comn.falahiyan@umsha.ac.ir

**Web page address**

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Hamedan University of Medical Sciences

**Full name of responsible person**

Roya Amini

**Position**

Master of Science in Community Health Nursing

**Other areas of specialty/work**

**Street address**

Hamedan- Pajouhesh square- Shahid Fahmideh Boulevard- Hamedan University of Medical Sciences- school of nursing

**City**

Hamedan

**Postal code**

65167

**Phone**

+98 81 3838 0150

**Fax**

+98 81 3838 0447

**Email**

AminiRoy@gmail.comr.amini@umsha.ac.ir

**Web page address**

www.umsha.ac.ir

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Hamedan University of Medical Sciences

**Full name of responsible person**

Seyede Nayereh Falahan

**Position**

Nursing Graduate Student

**Other areas of specialty/work****Street address**

Hamedan- Pajouhesh square- Shahid Fahmideh  
Boulevard- Hamedan University of Medical Sciences -  
school

**City**

Hamedan

**Postal code**

65167

**Phone**

+98 81 3837 1986

**Fax****Email**

nfalahan92@gmail.comn.falahiyan@umsha.ac.ir

**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*