

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

02 Jul 2026

### Comparison of the effect of decision-making skills training on ethical development of midwifery students with two methods of problem solving and computer simulation in the face of professional ethics conflicts.

#### Protocol summary

##### Summary

This study is a non-randomized controlled trial of two groups, before and after. Students who pass the professional ethics unit and have not participated in the problem solving skills workshop during the last six months. The study population included 80 students The midwifery of the University of Medical Sciences (and in the case of a small sample size) will provide undergraduate midwifery students at Mashhad Azad University in the first semester of the academic year 1395-1396. After taking pretest of the students from both groups, one training course is arranged in two types of problem solving and simulation for each group in the form of 4 two-hour sessions, and then after one week and one month after the intervention, from both groups, the post-test is taken. The result of the study is the score obtained from the decision-making skill in dealing with the conflicts of professional ethics of midwifery students.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2016070628817N1**  
Registration date: **2017-09-14, 1396/06/23**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-09-14, 1396/06/23

##### Registrant information

###### Name

Rehaneh Ashourzadeh

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 513859151113

###### Email address

ashourzadehr931@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Mashhad University of Medical Sciences

##### Expected recruitment start date

2017-04-09, 1396/01/20

##### Expected recruitment end date

2017-08-11, 1396/05/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the effect of decision-making skills training on ethical development of midwifery students with two methods of problem solving and computer simulation in the face of professional ethics conflicts.

##### Public title

The Effect of Teaching Decision Skills on the Students' Ethical Evolution

##### Purpose

Other

##### Inclusion/Exclusion criteria

Inclusion criteria: being Iranian and Muslim, having informed consent to participate in the study, being a midwifery student, having passed the professional ethics course. Exclusion criteria: not participating in any problem-solving skill workshops or classes during the

past 6 months

### Age

From **20 years** old to **45 years** old

### Gender

Female

### Phase

2-3

### Groups that have been masked

*No information*

### Sample size

Target sample size: **80**

### Randomization (investigator's opinion)

Not randomized

### Randomization description

### Blinding (investigator's opinion)

Not blinded

### Blinding description

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

### 1

#### Registry name

-

#### Secondary trial Id

-

#### Registration date

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Mashhad University of Medical sciences

##### Street address

Street University-School of Medicine

##### City

Mashhad

##### Postal code

511

#### Approval date

2016-09-28, 1395/07/07

#### Ethics committee reference number

IR.MUMS.REC.1395.342

## Health conditions studied

### 1

#### Description of health condition studied

Decision-making skill in professional ethical dilemma

#### ICD-10 code

Z51

### ICD-10 code description

Other medical care

## Primary outcomes

### 1

#### Description

decision-making skills in the face of professional ethical conflicts

#### Timepoint

Before the intervention, one week after the intervention, one month after intervention

#### Method of measurement

Researcher-made questionnaire based on the Nursing Dilemma Test questionnaire

## Secondary outcomes

### 1

#### Description

The level of satisfaction with the educational methods

#### Timepoint

Right after the intervention

#### Method of measurement

Researcher-made questionnaire

## Intervention groups

### 1

#### Description

Intervention1: at the beginning of the study, a two-hour workshop for educating problem-solving oriented method will be conducted and groups will be established. Students will be assigned into eight groups of 5 and each group, besides the teacher, will have a team leader. Problem-solving education contains 5 steps: 1- reading the problem, 2-brain storming about the problem, 3- determining and prioritizing the learning topics, 4- searching and collecting the information and 5- sharing and merging the information and would be presented during 4 two-hour sessions and at the beginning of each session, three scenarios about three hypothetical patients with created ethical conflicts who require midwifery services, will be presented. Then, after 15 minutes of explanation for each case, using brain storming, learning needs would be determined and the required information sources for students will be introduced. At the end, with teacher's cooperation, the topic will be discussed, concluded and modified.

#### Category

Other

### 2

#### Description

Intervention2: In the computer simulation group, after preparation of the program, the provided version will be examined by the experts of midwifery and ethics. If approved, it will be applied at the same time as the

problem-solving oriented group. Before the intervention, a two-hour workshop will be conducted for introducing the program's environment to the students. Topics that will be presented to the students at the workshop are: stages of registry, different elements of accessing method and the method of using the program. Also, each participant will be given a username and a password to access the program. This group's education will be conducted with researcher-made software based on problem-solving and as a computer simulation. The program contains an introduction page, a main page, a menu for selecting the scenario and 6 animated scenarios. The designed ethical scenario will be developed using a 6-step integrated ethical decision-making model (including recognizing the problem, finding the possible solutions, evaluating the solutions, selecting the best solution, applying the decision and evaluating the outcomes of the applied decision). It means that the learner will be asked to choose a problem. Before defining a specific problem, information will be gathered through the system. The questions will be aligned in a way that they will guide the learner toward solving the problem step-by-step. Recommending a replacement option for the learner will be provided by

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

School of Nursing and Midwifery, Mashhad

##### Full name of responsible person

Rehaneh Ashourzadeh

##### Street address

'School of Nursing and Midwifery, unervicity street, Mashhad

##### City

Mashhad

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice Chancellor for reserch of Mashhad University of Medical Scien

##### Full name of responsible person

Robab Latifnejad Roodsare

##### Street address

School of Nursing and Midwifery, Mashhad

##### City

Mashhad

##### Grant name

بودجه معاونت پژوهش و فناوری

##### Grant code / Reference number

950013

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

Yes

#### Title of funding source

Vice Chancellor for reserch of Mashhad University of Medical Scien

#### 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

Mashhad Medical Sciences

##### Full name of responsible person

Rehaneh Ashourzadeh

##### Position

student-bachelor

##### Other areas of specialty/work

##### Street address

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##### Web page address

## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Nursing and Midwifery Faculty, Mashhad University of Medical Sciences

##### Full name of responsible person

Talat KhdiveZadeh

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P.H.D

##### Other areas of specialty/work

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## Person responsible for updating data

### Contact

**Name of organization / entity**

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Medical Sciences

**Full name of responsible person**

Rehaneh Ashourzade

**Position**

Bachelor/student

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

Danesh7, Avenue Danesh, Neghab

**City**

Govine

**Postal code**

0511

**Phone**

+98 51145226104

**Fax****Email**

ashourzadehr931@mums.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*