

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

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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