

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Investigating the Effect of Competency Based Training in the Field of Emergency Obstetric Care on the Learning, Behavior and Reaction of Midwifery Students Based on Kirkpatrick`s Evaluation Model

Protocol summary

Study aim

Investigating the Effect of Competency-based Education in Emergency Obstetric Care on the Learning, Behavior and Reaction of Midwifery Students based on Kirkpatrick's Evaluation Model

Design

Semi-experimental educational experiment with control group is community-based and the sampling method is convenience. Using table of random numbers, all registered individuals are placed into the intervention and control groups in a parallel way. The sample size in each group regarding the loss is 44.

Settings and conduct

Emergency Obstetric Care education will be conducted at the Center for Clinical Skills in Iran Faculty of Nursing and Midwifery. Training sessions are 4 sessions and 5 hours per day.

Participants/Inclusion and exclusion criteria

Entry requirements: 1)Associate degree midwifery students enrolled in 4th semester in Iran Faculty of Nursing and Midwifery 2)Bachelor degree midwifery students enrolled in 4th and 6th semester in Iran Faculty of Nursing and Midwifery 3)No practical experience as job in the hospitals except their internship

Intervention groups

Emergency Obstetric Care education will be provided to the intervention group; before the intervention, knowledge, skills, and confidence level will be assessed in the intervention group; education is in four training sessions, five hours per day. At the end of the intervention, the assessment of knowledge, skills, and level of confidence takes place immediately and then six weeks later. In control , apart from the assessment, in terms of knowledge, skill, and level of confidence, with 6 weeks interval , All training leaflets and PowerPoint presentations will be provided to the control group along with a checklist of skills at the end of the work.

Main outcome variables

Differences in the level of learning, behavior and reaction of students before, immediately and 6 weeks after intervention in intervention and control groups

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180609040017N1**
Registration date: **2018-07-11, 1397/04/20**
Registration timing: **registered_while_recruiting**

Last update: **2018-07-11, 1397/04/20**

Update count: **0**

Registration date

2018-07-11, 1397/04/20

Registrant information

Name

Masumah Hakimi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3256 7624

Email address

Hakimi.m@tak.iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-17, 1397/03/27

Expected recruitment end date

2019-03-21, 1398/01/01

Actual recruitment start date

empty
Actual recruitment end date
empty
Trial completion date
empty
Scientific title
Investigating the Effect of Competency Based Training in the Field of Emergency Obstetric Care on the Learning, Behavior and Reaction of Midwifery Students Based on Kirkpatrick`s Evaluation Model

Public title
Investigating the Effect of Competency Based Education in Emergency Obstetric Care on the Learning, Behavior and Reaction

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

midwifery students in Associate`s degree in Iran Faculty of Nursing and Midwifery, 4th semester midwifery students in Bachelor`s degree in Iran Faculty of Nursing and Midwifery, 4th and 6th semester no practical experience as job in hospital except internship

Exclusion criteria:

Not attending 1 training session

Age
No age limit

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **88**

Randomization (investigator's opinion)
Randomized

Randomization description
All students interested in participating in the course by using the random numbers table divided in two groups of intervention and control.

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

Ethics Committee of Iran University of Medical Sciences
Street address
Iran University of Medical Sciences, Hemat Highway
City
Tehran
Province
Tehran
Postal code
1449614535
Approval date
2018-06-02, 1397/03/12
Ethics committee reference number
IR.IUMS.REC.1397.026

Health conditions studied

1

Description of health condition studied

Investigating the effect of competency-based education in the field of emergency obstetric care on the learning, behavior and reaction of midwifery students

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Reaction Score

Timepoint

immediately after the end of the educational course

Method of measurement

Education Effectiveness Evaluation Questionnaire (Based on Kirk Patrick Model)

2

Description

Knowledge score

Timepoint

before intervention, immediately and 6 weeks after the intervention

Method of measurement

Knowledge Questionnaire in Emergency Obstetric Care Education

3

Description

Level of confidence in Emergency Obstetric Care skills

Timepoint

before, immediately and 6 weeks after intervention

Method of measurement

confidence questionnaire on maternal and neonatal health skills

4

Description

students' skill level in the field of Emergency Obstetric Care

Timepoint

before, immediately and 6 weeks after intervention

Method of measurement

Emergency Obstetric Care Skill's checklists

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Emergency Obstetric Care education in 4 sessions, each session 5 hours in the field of dystocia, shock, neonatal resuscitation and postpartum hemorrhage.

Category

Other

2

Description

Control group: Assessment of knowledge, skills, and confidence level with a 6-week interval. Provide tutorials and PowerPoints after the end of the intervention

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Iran Faculty of Nursing and Midwifery

Full name of responsible person

Masumah Hakimi

Street address

No. 222, Shahid Shafei 30 Ave., Golshahr, Mashhad Town

City

Mashhad

Province

Razavi Khorasan

Postal code

9156967179

Phone

+98 51 3256 7624

Email

hakimi.m@tak.iums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Kazem Malakooti

Street address

Medical Sciences of Iran, Hemmat Highway, next to Milad Hospital

City

Tehran

Province

Tehran

Postal code

1449614535

Phone

+98 21 6650 9024

Email

kmalakouti@iums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Person responsible for general inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Masumah Hakimi

Position

Midwifery Student

Latest degree

Bachelor

Other areas of specialty/work

Midwifery

Street address

No.222, Shahid Shafiee 30, Golshahr, Mashhad Town

City

Kabul

Province

Kabul

Postal code

9156967179

Phone

+98 51 3256 7624

Email

hakimi.m@tak.iums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Masoomeh Kheikhah

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Education

Street address

Iran Faculty of Nursing and Midwifery, Rashid yasemi Ave. Vanak Square, Tehran

City

Tehran

Province

Tehran

Postal code

1996713883

Phone

+98 21 4365 1000

Email

shivakheirkhah1345@gmail.com

Person responsible for updating data

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Masumah Hakimi

Position

Midwifery Student

Latest degree

Bachelor

Other areas of specialty/work

Midwifery

Street address

No. 222, Shahid Shafiei St., Golshahr, Mashhad Town

City

Kabul

Province

Kabul

Postal code

9156967179

Phone

+98 51 3256 7624

Email

hakimi.m@tak.iums.ac.ir

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

Students' personal information and their names will not be published based on informed consent and ethical codes.

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is 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

Not applicable

Title and more details about the data/document

The thesis will be available to individuals after approval and defense, which includes the process of work and the statistical and specific results. Participants information will be protected.

When the data will become available and for how long

After 2019

To whom data/document is available

All scholars and students in the private and public sectors

Under which criteria data/document could be used

For use in research and education at universities

From where data/document is obtainable

Dr. Masoomeh Kheirkhah, address: Tehran, above Vanak Square, Rashid Yasemi St., Faculty of Nursing Midwifery, shivakheirkhah1345@gmail.com Masoumeh Hakimi, post address: Tehran, above Vanak Square, Rashid Yasemi Ave., Faculty of Nursing Midwifery, masumah.hakimi@gmail.com

What processes are involved for a request to access data/document

Request is sufficient by using an official email.

Comments