Clinical Trial Protocol
Iranian Registry of Clinical Trials

02 Nov 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

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Razavi Khorasan

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9156967179

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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

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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

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

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Kabul

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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

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Person responsible for updating data

Contact

Name of organization / entity
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Full name of responsible person
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Position
Midwifery Student

Latest degree
Bachelor

Other areas of specialty/work
Midwifery

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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