

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Sep 2026

Design and implementation of delivery protocol training for midwifery students with an application based on gamification method and evaluation of its usage by midwifery students

Protocol summary

Study aim

Design and implementation of delivery protocol training for midwifery students with an application based on gamification method and evaluation of its usage by midwifery students

Design

Clinical trial with control group, crossover design, random selection of groups on 35 midwifery students

Settings and conduct

The location of the project is the maternity ward of Babol University of Medical Sciences hospitals. All students will be selected and randomly divided into two groups A and B. Half of the topics for group A will be taught with gamification method and the rest of the topics will be taught with traditional method. In group B, on the contrary.

Participants/Inclusion and exclusion criteria

Inclusion criteria: obtaining written consent from students to participate in the study; obtaining a natural and unnatural childbirth internship. Exclusion criteria: obtain a natural and unnatural childbirth internship unit and the use of natural and unnatural childbirth in the past semesters.

Intervention groups

A link to enter the game will be sent to each student once a week. The contents of the delivery protocol will be presented to the students in the form of theory and challenges. Students will earn points by answering the challenges.

Main outcome variables

Students' satisfaction, average knowledge score and average delivery protocol performance score

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180218038783N7**

Registration date: **2024-01-19, 1402/10/29**

Registration timing: **prospective**

Last update: **2024-02-13, 1402/11/24**

Update count: **1**

Registration date

2024-01-19, 1402/10/29

Registrant information

Name

Fereshteh Behmanesh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3219 0504

Email address

f.behmanesh@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-02-04, 1402/11/15

Expected recruitment end date

2026-02-04, 1404/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Design and implementation of delivery protocol training for midwifery students with an application based on

gamification method and evaluation of its usage by midwifery students

IR.SMUMS.REC.1402.029

Public title

Effectiveness of gamification method for delivery protocol training on midwifery students

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria:

Obtaining written consent from students to participate in the study
Obtaining the course unit of natural and abnormal childbirth internship
Midwifery student

Exclusion criteria:

Failure to take the training course of natural and unnatural childbirth in the previous semesters

Age

No age limit

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 35

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic Committee of the University of Intelligent Medical Sciences

Street address

Number 3, First Avenue, Koh Noor Street, Motahari Street, Tehran

City

Tehran

Province

Tehran

Postal code

3614773955

Approval date

2024-01-02, 1402/10/12

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

Natural delivery

ICD-10 code

Z55

ICD-10 code description

Problems related to education and literacy

Primary outcomes

1

Description

Knowledge and performance of the delivery protocol

Timepoint

Before, immediately and one month after the study, it is evaluated through a questionnaire and a checklist of performance at the mother's bedside.

Method of measurement

The delivery protocol knowledge questionnaire: This questionnaire contains 20 questions from the national guide to the provision of midwifery and maternity services and from six topics presented, designed by the researcher. Checklist for the performance of the delivery protocol: This checklist is made up of six topics designed by the research team and each student will be evaluated separately by the researcher on the mother's clinic.

Secondary outcomes

1

Description

Student satisfaction

Timepoint

Upon completion of the intervention will be completed by the students.

Method of measurement

The questionnaire includes questions to measure student satisfaction with the interventions.(Designed by the researcher.)

Intervention groups

1

Description

Intervention: All students who consent to participate in the study will be randomly divided into two groups. Half of the topics for one group (intervention) will be taught with gamification method and for the second group (control) with conventional method, and in the continuation of the study, the other half of the topics for the primary control group will be taught with gamification method and for the primary intervention group with the conventional method will be taught. Some

topics of natural and unnatural childbirth practice (vaginal examination, control of mother's vital signs, control of fetal heart rate, control of uterine contractions, placental examination, drawing of partographs and investigation of episiotomy) in both gamification and traditional forms with contents It will be prepared exactly the same. Before starting the study, the students will complete the 20-question knowledge assessment test as well as the demographic and emotional intelligence questionnaire of Siberia Sharing, and their performance at the mother's bedside will be evaluated using a checklist. Four weeks after the completion of the interventions, the students will respond to the delivery protocol test and their performance at the mother's bedside will be evaluated using a designed checklist.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol University of Medical Sciences

Full name of responsible person

Fereshteh Behmanesh

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

Mehdi Rajabnia

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Grant name

Grant code / Reference number

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

No

Title of funding source

Smart University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

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

Babol University of Medical Sciences

Full name of responsible person

Fereshteh Behmanesh

Position

Assistant Professor of Midwifery and Counseling

Latest degree

Ph.D.

Other areas of specialty/work

Reproductive Health

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Other areas of specialty/work

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Latest degree

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Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to
make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to
make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to
make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to
make this available

Clinical Study Report

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be a plan to
make this available