

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Comparison of the effectiveness of virtual clinical round on self-efficacy and clinical competence in midwifery students

Protocol summary

Study aim

The effect of "virtual roundtable" on self-efficacy and clinical competence of midwifery students

Design

Clinical trial with control group, with parallel groups, randomized allocation, on 64 midwifery students,

Settings and conduct

The research site is Shahid Beheshti Hospital in Isfahan and only students will be blind. The intervention group will use a virtual clinical round and the control group will use the usual method for in-clinic training. Before and after training in both groups, self-efficacy and clinical competence will be assessed by a questionnaire.

Participants/Inclusion and exclusion criteria

Having conscious satisfaction, physical and mental ability to participate in the study and having an Android mobile phone

Intervention groups

Students are asked to collect items related to a case in groups of 5, including history, examination, diagnosis and treatment, and to examine it in a virtual and online classroom using the Skyroom. The student's strengths and weaknesses are also presented in writing or virtually by the presenter after the session.

Main outcome variables

Clinical self efficacy: clinical competence

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220123053802N1**

Registration date: **2022-02-15, 1400/11/26**

Registration timing: **prospective**

Last update: **2022-02-15, 1400/11/26**

Update count: **0**

Registration date

2022-02-15, 1400/11/26

Registrant information

Name

soheila mohamadirizi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3792 7539

Email address

smohamadirizi@nm.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-02-20, 1400/12/01

Expected recruitment end date

2023-10-23, 1402/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effectiveness of virtual clinical round on self-efficacy and clinical competence in midwifery students

Public title

The effect of virtual clinical round on self-efficacy and clinical competence in midwifery students

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

Conscious consent to participate in the study Pass at

least 4 theory units of pregnancy and practical childbirth

Exclusion criteria:

Age

No age limit

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 64

Randomization (investigator's opinion)

Randomized

Randomization description

Undergraduate students, after explaining the objectives of the research, will be placed in a test group and a control group based on the criteria for entering the simple random method. Students' self-efficacy and clinical competency will be assessed before and after the clinical education round. Immediately after the intervention, all participants will take a post-test.

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

Faculty of Nursing, Management and Rehabilitation - Isfahan University of Medical Sciences

Street address

Isfahan University of Medical Sciences, Isfahan, Iran

City

Isfahan

Province

Isfahan

Postal code

81746-73461

Approval date

2021-12-25, 1400/10/04

Ethics committee reference number

IR.MUI.NUREMA.REC.1400.200

Health conditions studied

1

Description of health condition studied

Clinical self-efficacy of midwifery students of Isfahan

University of Medical Sciences

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Clinical self-efficacy

Timepoint

Before and immediately after

Method of measurement

questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Students are asked to complete a complete and comprehensive case in that internship on the internship days related to natural and abnormal labor units at certain hours of the day, including a history, Examination, diagnosis and treatment measures are collected and examined in the virtual and online classroom using the relevant Skyroom n space. The student's strengths and weaknesses are presented to the presenting student in writing or virtually after the session. Students will complete self-efficacy and clinical competency questionnaires before and immediately after training.

Category

Behavior

2

Description

Control group: In the control group, there will be no intervention by the researcher and only routine training will be done in the ward. A pre-test and a post-test will be completed.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Soheila mohamadirizi

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Hezar Jerib Ave., Isfahan University of Medical Sciences, Isfahan Town

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Web page address<https://mui.ac.ir/>**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Isfahan University of Medical Sciences

Full name of responsible person

Mansour Siavash

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Web page address<https://mui.ac.ir/>**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Isfahan 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**

Isfahan University of Medical Sciences

Full name of responsible person

Soheila mohamadirizi

Position

Faculty instructor

Latest degree

Master

Other areas of specialty/work

Midwifery

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Web page address<https://mui.ac.ir/>**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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Full name of responsible person

Soheila mohamadirizi

Position

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Latest degree

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Other areas of specialty/work

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

No - There is not 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

Yes - There is 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

Title and more details about the data/document

Published in the field of medical and midwifery education

When the data will become available and for how long

To be shared after the end of the study.

To whom data/document is available

For researchers working in academic and scientific institutions, to be shared after the end of the study.

Under which criteria data/document could be used

At the end of the study, a summary of the article should be shared with researchers working in academic and scientific institutions.

From where data/document is obtainable

After the end of the study, share email addresses for applicants.

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

After the study, applicants can request access to the files by visiting the e-mail address

Comments