

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Sep 2026

Designing and evaluating an educational serious game to improve the Skill Indicators of obstetrics and gynecology residents

Protocol summary

Study aim

Improvement of the skill indicators of second and third year residences of the department of obstetrics and gynecology in the uterine and ovarian arteries ligation

Design

Sample size: 46 (Mashhad: 30 [third year residents:15, second year residents:15] , Zahedan: 30 [third year residents:8, second year residents:8]) Randomization: Simple via www.randomization.com website Study design: Randomized control trial, two arm, concurrent parallel

Settings and conduct

Setting: OmolBanin hospital in Mashhad medical university and ImamAli hospital in Zahedan medical university. Blinded peoples: 1-Assessors in pre and post test, 2-Statistical analyzer. The second and third year obstetrics and gynecology residents who are studying in the current academic year are subjected to a pre-test by a questionnaire that will be finally validated and verified. Then an educational serious game will be designed to train the skill indicators of the second and third year residents in the uterine and ovarian arteries ligation. Residents in the intervention group will interact with the educational serious game, and will meet gradual and academic training during the engagement with this game. Then they will be asked for the post-test. This intervention is expected to be effective, and the score of the intervention group is significantly higher than that of the control group in the post-test, which is indicative of improving their skill indicators in closure of the uterine and ovarian arteries ligation.

Participants/Inclusion and exclusion criteria

The second and third year obstetrics and gynecology residents

Intervention groups

The second and third year obstetrics and gynecology residents

Main outcome variables

Skill indicators difference between intervention and

control groups in uterine and ovarian arteries ligation

General information

Reason for update

We received confirmation code in pervious format from irct.ir; it was in short site. In the new format, we intend to give the public our project data completely and clearly. We therefore updated site.

Acronym

IRCT registration information

IRCT registration number: **IRCT2017092436366N1**

Registration date: **2017-10-23, 1396/08/01**

Registration timing: **prospective**

Last update: **2020-11-23, 1399/09/03**

Update count: **1**

Registration date

2017-10-23, 1396/08/01

Registrant information

Name

Nahid Sharifzadeh

Name of organization / entity

Faculty of Medicine of Mashhad

Country

Iran (Islamic Republic of)

Phone

+98 51 3882 8299

Email address

sharifzadehn941@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Deputy of Research, Mashhad University of Medical Sciences

Expected recruitment start date

2017-11-22, 1396/09/01

Expected recruitment end date

2018-11-22, 1397/09/01

Actual recruitment start date

2017-11-22, 1396/09/01

Actual recruitment end date

2018-11-22, 1397/09/01

Trial completion date

2018-11-22, 1397/09/01

Scientific title

Designing and evaluating an educational serious game to improve the Skill Indicators of obstetrics and gynecology residents

Public title

Design and evaluation of an educational Serious Game to uterine artery ligation

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

resident of the second and third year of obstetrics and gynecology

Exclusion criteria:

no participation of resident in the pre-test

Age

From 20 years old

Gender

Female

Phase

N/A

Groups that have been masked*No information***Sample size**

Target sample size: 47

Actual sample size reached: 46

Randomization (investigator's opinion)

Randomized

Randomization description

Method of randomization: simple tools used in randomization: randomization.com website

Blinding (investigator's opinion)

Single blinded

Blinding description

healthcare providers (OSATs assessor) and outcome assessors were blinded.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee**

Name of ethics committee

Deputy of Research of Mashhad University of Medical Sciences

Street address

Deputy of Research of Mashhad University of Medical Sciences, Faculty of Medicine, Azadi Square, Mashhad

City

Mashhad

Province

Razavi Khorasan

Postal code

8771685873

Approval date

2017-09-06, 1396/06/15

Ethics committee reference number

IR.MUMS.fm.REC.1396.345

Health conditions studied**1****Description of health condition studied**

Uterine Artery Ligation

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Indicators of operative skills

Timepoint

Two months after the end of the intervention

Method of measurement

OSATS Checklist

Secondary outcomes

empty

Intervention groups**1****Description**

Educational Serious Game in Intervention Group

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Omolbanin Hospital

Full name of responsible person

Dr. Mahmood Tara

Street address

Bahjat St., Rah Ahan SQ.

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Recruitment center

Name of recruitment center
Imam Ali Hospital
Full name of responsible person
Dr. Mahmood Tara
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Deputy of Research of Mashhad University of Medical Sciences
Full name of responsible person
Dr. Ali Akbar SaberMoghadam
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Deputy of Research of Mashhad University of Medical Sciences, Faculty of Medicine, Azadi Square, Mashhad
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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy of Research of Mashhad 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
Faculty of Medicine of Mashhad
Full name of responsible person
Nahid Sharifzadeh
Position
Master of Student in Medical Informatics/Student
Latest degree
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Other areas of specialty/work
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Person responsible for updating data

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Latest degree

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nd.sharifzadeh@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Not applicable

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

The data will all be anonymous and encrypted. So, all the
data will be shared.

**When the data will become available and for how
long**

Once the results are published indefinitely, unlimited
access will be possible.

To whom data/document is available

There is no limitation.

Under which criteria data/document could be used

There is no limitation.

From where data/document is obtainable

We pledge to respond by taram@mums.ac.ir

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

We pledge to respond within one business day by
taram@mums.ac.ir

Comments