

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

Comparing the clinical reasoning grades after electronic learning of clinical reasoning in medical students

Protocol summary

Medical University

Summary

This is a randomized controlled study on the 4th year medical students who will randomly allocate to case (e-learning of clinical reasoning) and control (usual learning) groups. Before and 2 months after e-learning they will examine by clinical reasoning exam (Key feature, Crp, ...). The effect of e-learning will be analyzed by analyzing the pre and post test grades.

Expected recruitment start date

2013-09-23, 1392/07/01

Expected recruitment end date

2014-09-23, 1393/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

Clinical reasoning

IRCT registration information

IRCT registration number: **IRCT2013082514466N1**

Registration date: **2013-09-22, 1392/06/31**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2013-09-22, 1392/06/31

Registrant information

Name

Mahnaz Amini

Name of organization / entity

Mashad medical university

Country

Iran (Islamic Republic of)

Phone

+98 51 1859 8818

Email address

aminim@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor of research- Mashhad University of

Scientific title

Comparing the clinical reasoning grades after electronic learning of clinical reasoning in medical students

Public title

Effect of electronic learning of clinical reasoning on medical students

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criterion: 4th year medical students. Exclusion criteria: unwilling to enter to the study and unable to work with computer.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **56**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mashhad University of Medical Sciences

Street address

shahid fakoori st. university campus

City

Mashhad

Postal code

Approval date

2011-09-23, 1390/07/01

Ethics committee reference number

900333

Health conditions studied

1

Description of health condition studied

education of medical students

ICD-10 code

Not Applic

ICD-10 code description

Not Applicable

Primary outcomes

1

Description

Clinical reasoning exams grade

Timepoint

Baseline and after 3 months

Method of measurement

Clinical reasoning exam

Secondary outcomes

empty

Intervention groups

1

Description

Educating clinical reasoning via e-learning

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Mashhad University of Medical Sciences

Full name of responsible person

Street address

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Dr Mohsen Tafaghodi

Street address

Daneshgah st., Ghorshi building. Vice chancellor of research

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Mahnaz Amini

Position

Assistant professor

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

Contact

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Email
Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty