

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Investigating the effect of problem-based education on improving the performance of medical trainees in conducting interventions related to management of patients with trauma

Protocol summary

Study aim

Investigating the effect of problem-based education on improving the performance of medical trainees in conducting interventions related to management of patients with trauma

Design

A randomized controlled clinical trial with control group, parallel groups, randomized, without blinding

Settings and conduct

The study will be conducted at the Evidence-Based Clinical Education Center at Tabriz Emam Reza Hospital Emergency.

Participants/Inclusion and exclusion criteria

Medical students in stager section will be enrolled in the study and students will be excluded from the study with no consent.

Intervention groups

Intervention group: The intervention group will be trained in problem-solving training by emergency medicine professors. Control group: Traditional training (lecture) by emergency medicine professors.

Main outcome variables

Airway, wound and circulatory problem management.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180928041159N1**

Registration date: **2019-08-23, 1398/06/01**

Registration timing: **retrospective**

Last update: **2019-08-23, 1398/06/01**

Update count: **0**

Registration date

2019-08-23, 1398/06/01

Registrant information

Name

Sajjad Pourasghary

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 41 3667 0577

Email address

pourasghary.s@umsu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-04, 1398/01/15

Expected recruitment end date

2019-07-06, 1398/04/15

Actual recruitment start date

2019-07-06, 1398/04/15

Actual recruitment end date

2019-07-06, 1398/04/15

Trial completion date

2019-09-21, 1398/06/30

Scientific title

Investigating the effect of problem-based education on improving the performance of medical trainees in conducting interventions related to management of patients with trauma

Public title

Effect of problem-based education on improving the performance of medical trainees

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Medical student in stager section

Exclusion criteria:
No consent to participate in the study

Age
From **21 years** old to **45 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **100**
Actual sample size reached: **100**

Randomization (investigator's opinion)
Randomized

Randomization description
Randomization will be done using simple randomization method and random number table tool and student's ID last four number digits.

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 Tabriz University of Medical Sciences

Street address

Faculty of Medicine, Golghasht Street, Daneshgah Street

City

Tabriz

Province

East Azarbaijan

Postal code

5166614756

Approval date

2019-08-19, 1398/05/28

Ethics committee reference number

IR.TBZMED.REC.1398.542

Health conditions studied

1

Description of health condition studied

Management of traumatic patients

ICD-10 code

Z55

ICD-10 code description

Problems related to education and literacy

Primary outcomes

1

Description

Airway management

Timepoint

Before and after intervention

Method of measurement

Practically and under the supervision of the relevant professor

2

Description

Wound management

Timepoint

Before and after intervention

Method of measurement

Practically and under the supervision of the relevant professor

3

Description

Manage circulatory problems

Timepoint

Before and after intervention

Method of measurement

Practically and under the supervision of the relevant professor

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The intervention group will receive problem-based training by emergency medicine professors.

Category

Other

2

Description

Control group: They will be given traditional lecture by emergency medicine professors.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emamreza hospital

Full name of responsible person

Dr. Pooya Paknezhad

Street address

Golghasht Street, Daneshgah Street

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Tabriz

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East Azarbaijan

Postal code

5166614756

Phone

+98 41 3334 7054

Email

imamrezahospital@tbzmed.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Hojjat Pourfathi

Street address

Faculty of Medicine, Near Emamreza Hospital,
Golghasht Street, Daneshgah Street

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Email

info@medfac.tbzmed.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Farnam Shokrzadeh

Position

Medical Student

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

Street address

Faculty of Medicine, Near Emamreza Hospital,
Golghasht Street, Daneshgah Street

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Pooya Paknezhad

Position

Associate professor

Latest degree

Medical doctor

Other areas of specialty/work

Emergency Medicine

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Person responsible for updating data

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Sajjad Pourasghary

Position

Medical Student

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

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

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

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

Study data is categorized and coded with no identifiable individuals.

When the data will become available and for how long

Access to study data after publication of the result is available in the journal.

To whom data/document is available

Anyone interested in using the data can access the study data.

Under which criteria data/document could be used

Study data can be used for comparison with other results.

From where data/document is obtainable

Refer to the study's scientific or public accountability person for data.

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

The use request will be emailed to the scientific or public accountability person.

Comments