Clinical Trial Protocol
Iranian Registry of Clinical Trials

27 Nov 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

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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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5166614756

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+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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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

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

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Person responsible for scientific inquiries

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Associate professor

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Emergency Medicine

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Person responsible for updating data

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Oroumia University of Medical Sciences

Full name of responsible person
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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