

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of the effect of "conflict management" training based on the Fogg model with the teaching method using lectures and multimedia on attitude, skills and conflict management styles of medical students at Tehran University of Medical Sciences: a clinical trial study

Protocol summary

Study aim

Comparison of the effect of "conflict management" training based on the Fogg model and teaching methods using lecture and multimedia on attitude, skills, and conflict management styles of medical students at Tehran University of Medical Sciences

Design

A double-blind, non-randomized, control and intervention group study was conducted to teach conflict management to first-year medical students. The sample size was calculated based on the formula of 35 people for each group, with a 20% dropout of 44 people for each group.

Settings and conduct

The place of study is the Tehran University of Medical Sciences Faculty of Medicine. The evaluators and statisticians will not know about the intervention and control groups (double-blind study).

Participants/Inclusion and exclusion criteria

Medical students at TUMS Employed to study in the first year Willingness to participate in the study

Intervention groups

First, a pre-test will be conducted for all participants of the control and intervention groups. Then, the control group will receive the usual training method for two months (the training program includes lectures and multi-media). Immediately after the end of the 2-month period, the post-test will be performed. Then the educational intervention was designed based on the fog model for the intervention group, (its educational program includes electronic content, attractive short clips, the implementation of scenarios, and role-playing by students in the form of small learning groups and the sending of appropriate notifications) during 2 months. Immediately after the educational program's end, the intervention group's post-test will also be implemented.

Main outcome variables

Measuring the attitude, skills and conflict management styles of medical students in class work in the form of role-playing

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20221005056091N1**

Registration date: **2022-11-05, 1401/08/14**

Registration timing: **registered_while_recruiting**

Last update: **2022-11-05, 1401/08/14**

Update count: **0**

Registration date

2022-11-05, 1401/08/14

Registrant information

Name

Mahboobeh Khabaz Mafinejad

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 8895 5712

Email address

m-mafinejad@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-10-22, 1401/07/30

Expected recruitment end date

2022-12-21, 1401/09/30

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of the effect of "conflict management" training based on the Fogg model with the teaching method using lectures and multimedia on attitude, skills and conflict management styles of medical students at Tehran University of Medical Sciences: a clinical trial study

Public title
Comparison of the effect of "conflict management" training based on the Fogg model with the teaching method using lectures and multimedia on attitude, skills and conflict management styles of medical students at Tehran University of Medical Sciences: a clinical trial study

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
 Medical student at Tehran University of Medical Sciences
 Students are studying in 1-year of curriculum
 Tendency to participation in study
Exclusion criteria:
 Probationary students and any from other universities
 Not filling out the questionnaires
 Not participating in conflict management course

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Outcome assessor
- Data analyser

Sample size
Target sample size: 88

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description
The training and role-playing sessions of the students were videotaped and the evaluators blindly evaluated the performance of the teams and each of the students in the stage of the effect of the training on the students' skills. Also, in the analysis stage, the data analyst performed the analysis with codes 1 and 2 specific to each intervention and control group, and there was no information that each code was related to which group.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethics Committees of School of Medicine-
Tehran University of Medical Sciences

Street address

No, 57, EDC building of TUMS., Hojjatdoost St., Naderi
St., Keshavarz Blvd.

City

Tehran

Province

Tehran

Postal code

1416633591

Approval date

2021-10-16, 1400/07/24

Ethics committee reference number

IR.TUMS.MEDICINE.REC.1400.756

Health conditions studied

1

Description of health condition studied

Not applicable

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Attitude, skills and conflict management styles of
medical students

Timepoint

one week after education

Method of measurement

Dutch questionnaire to determine students' conflict
management styles, questionnaire to evaluate students'
attitude towards conflict management and checklist to
assess students' conflict management skills during role
playing

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Receive conflict management training based on Fogg's model

Category

N/A

2

Description

Control group: Receive conflict management training using multimedia

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Not applicable

Full name of responsible person

Not applicable

Street address

5th floor, No 57, EDC Building of TUMS., Hojjatdoost St., Naderi St., Keshavarz Blvd.Tehran

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1416633591

Phone

+98 21 8895 5712

Email

mahboobe.mafinezhad@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Dr Akbar Fotouhi

Street address

5th floor, No 57, EDC Building of TUMS., Hojjatdoost St., Naderi St., Keshavarz Blvd.Tehran

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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

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Mahboobeh Khabaz Mafinejad

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Education

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

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Position

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Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Mahboobeh Khabaz Mafinejad
Position
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Latest degree
Ph.D.
Other areas of specialty/work
Medical Education
Street address
5th floor, No 57, EDC Building of TUMS., Hojjatdoost
St., Naderi St., Keshavarz Blvd.Tehran
City

Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no further information.

Study Protocol

No - There is not 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