Clinical Trial Protocol
Iranian Registry of Clinical Trials

12 Nov 2026

Implementation and evaluation of Problem-Based Learning (PBL) in autonomic nervous system physiology for medical students in Tehran University of Medical Sciences

Protocol summary

Summary
This study considers designing, implementing and evaluating a different educational method called Problem-Based Learning (PBL) in autonomic nervous system physiology for fifty numbers of medical students 2014 entry in Tehran University of Medical Sciences. This method will implement in the first semester of session 2015-2016. These medical students have not participated in or passed this course yet. Physiology is a basic course in medical sciences. Therefore if there is a proper teaching, medical student will able to use better this course in clinic and they would understand better pathological features of disease. Problem-Based Learning (PBL) makes medical students to search for getting their questions. Thus they will able to test their proposed hypothesis and they will access to their educational targets.

General information

Acronym
IRCT registration information
IRCT registration number: **IRCT2014122020371N1**
Registration date: **2015-10-17, 1394/07/25**
Registration timing: **retrospective**

Last update:
Update count: **0**
Registration date
2015-10-17, 1394/07/25

Registrant information
Name
Behjat Seifi
Name of organization / entity
Tehran University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 21 6405 3288
Email address
b-seifi@tums.ac.ir

Recruitment status
Recruitment complete
Funding source
Tehran University of Medical Sciences

Expected recruitment start date
1994-07-01, 1373/04/10
Expected recruitment end date
1994-11-11, 1373/08/20
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Implementation and evaluation of Problem-Based Learning (PBL) in autonomic nervous system physiology for medical students in Tehran University of Medical Sciences

Public title
Problem-Based Learning (PBL) for teaching of medical students in Tehran University of Medical Sciences
Purpose
Other
Inclusion/Exclusion criteria
Inclusion criteria: Second-year medical students who have nervous system physiology course Exclusion criteria: Students who were failed in their previous examination or passed before.
Age
No age limit

Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **100**
Randomization (investigator's opinion)
Randomized
Randomization description
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
Tehran University of Medical sciences
Street address
Enghelab Square
City
Tehran
Postal code
Approval date
2015-01-24, 1393/11/04
Ethics committee reference number
93-04-76-27549-137713

Health conditions studied

1

Description of health condition studied
Problem Based Learning Method
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
learning of problem base skills
Timepoint
end of study
Method of measurement
find out students thoughts by enclosed questionnaire for evaluating of quality of the PBL method - comparing of final marks in two methods (PBL and lecture)

Secondary outcomes

empty

Intervention groups

1

Description
Study group: The problem based-learning by using the various problems and case scenarios
Category
Other

2

Description
Control group: Lecture group (traditional method)
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Medical School, Tehran University of Medical Sciences
Full name of responsible person
Bejat Seifi
Street address
Poursina st, 16 Azar st, Enghelab square
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran University of Medical Sciences, Educational Development Center
Full name of responsible person
Azim Mirzazadeh
Street address
Dameshgh st, Keshavarz Blv, Tehran
City
Tehran
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, Educational Development Center
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

Tehran University of Medical Sciences

Full name of responsible person

Behjat Seifi

Position

PhD

Other areas of specialty/work

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Person responsible for scientific inquiries

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Person responsible for updating data

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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