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An observation of the peer-assisted learning method in the clinical teaching of vertigo /dizziness-related diseases for standardized residency training students in China

Submission date
26/06/2021

Recruitment status
No longer recruiting

Registration date
05/07/2021

Overall study status
Completed

Last Edited
28/10/2022

Condition category
Other

[_] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

Plain English summary of protocol
Background and study aims
Vertigo and dizziness (VD) are among the most frequently seen symptoms in clinics and are important for medical students, especially for those in Chinese standardized residency training (SRT). The aim of this study is to examine the peer-assisted learning (PAL) method's feasibility in the clinical teaching of VD-related diseases for SRT students in China.

Who can participate?
Resident medical students at the Army Medical University in Chongqing, China

What does the study involve?
The students are randomly allocated into two groups, and VD-related diseases are taught using either lecture-based learning (control group) or PAL. An examination paper and a rating scale are used to evaluate students' performance in the mastery of VD-related theoretical knowledge and clinical skills, while students' perceptions, satisfaction, and risk of burnout are also analyzed using a questionnaire.

What are the possible benefits and risks of participating?
None

Where is the study run from?
The Army Medical University in Chongqing (China)

When is the study starting and how long is it expected to run for?
July 2016 to December 2020

Who is funding the study?
1. National Natural Science Foundation for Young Scientists of China (China)
2. Miao Pu project of Army Medical University (China)
3. Major Clinical Program from Xinqiao Hospital (China)

Who is the main contact?
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Type(s)
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Additional identifiers

Clinical Trials Information System (CTIS)
Nil known

ClinicalTrials.gov (NCT)
Nil known

Protocol serial number
2016 03607

Study information

Scientific Title
A randomized, controlled, multicenter study to investigate the peer-assisted learning method's feasibility in the clinical teaching of vertigo/dizziness-related diseases for standardized residency training students in China

Acronym
PMICTOVFS

Study objectives
PAL is a suitable and effective method in the clinical teaching of some specialized diseases, especially it was recommended for students who had gained initial knowledge and skills, such as Chinese SRT students.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 15/12/2016, Ethics Committee of Xinqiao Hospital (Army Medical University, Chongqing, 400037, China; +86 (0)23-68774413; shifuzha@126.com), ref: 2016 Review No. 03607

Study design
Randomized controlled multicenter study

Primary study design
Interventional

Study type(s)
Other

Health condition(s) or problem(s) studied
Clinical teaching of vertigo/dizziness-related diseases for SRT students in China

Interventions
The students were randomized using Research Randomizer (https://www.randomizer.org/) into two groups, and VD-related diseases were taught using lecture-based learning (control group) or peer-assisted learning (PAL). An examination paper and a rating scale were used to evaluate students' performance in the mastery of VD-related theoretical knowledge and clinical skills, while students' perceptions, satisfaction, and risk of burnout were also analyzed using a questionnaire.

The total duration of intervention for all study arms was 3 weeks and all study arms were followed up for 1 week.

Intervention Type
Behavioural

Primary outcome(s)
1. Mastery of theoretical knowledge measured using a written examination paper within 1 week before and after teaching
2. Clinical skills examined by analyzing the case of a standardized patient within 1 week before and after teaching

Key secondary outcome(s))
Student perceptions and satisfaction measured using a researcher-made questionnaire (3-point scale with 1 = improved and 3 = not improved, or 3-point scale with 1 = agree and 3 = disagree) within 1 week after teaching

Completion date
31/12/2020

Eligibility

Key inclusion criteria
Active residents employed in four training sites and willing to participate in the training program and assessment procedure

Participant type(s)
Health professional

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Total final enrolment
198

Key exclusion criteria
1. Residents who had previously participated in a similar curriculum
2. Residents who completed less than 50% of the training program

Date of first enrolment
01/01/2017

Date of final enrolment
01/12/2020

Locations

Countries of recruitment
China

Study participating centre
Army Medical University
Department of Neurology
The Second Affiliated Hospital
Chongqing
China
400037

Study participating centre
Army Medical University
Department of Otolaryngology
The Second Affiliated Hospital
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Study participating centre
Chongqing Traditional Chinese Medicine Hospital
Department of Neurology
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Sponsor information

Organisation
Army Medical University

ROR
https://ror.org/05w21nn13

Funder(s)

Funder type
Government

Funder Name
National Natural Science Foundation for Young Scientists of China

Funder Name
Miao Pu project of Army Medical University

Funder Name
Major Clinical Program from Xinqiao Hospital

Results and Publications

Individual participant data (IPD) sharing plan
The datasets generated during and/or analysed during the current study will be stored in a non-publically available repository. Patient identifiable data will be stored in an intranet secure database in the internal database of our university.

IPD sharing plan summary
Stored in non-publicly available repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		14/10/2021	28/10/2022	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Protocol file			08/07/2021	No	No