

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

<b>Submission date</b> 26/06/2021	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 05/07/2021	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 28/10/2022	<b>Condition category</b> Other	<input type="checkbox"/> 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?

Dr Yang Bai  
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## Contact information

### Type(s)

Public

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## Additional identifiers

### 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  
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**Study participating centre**  
**Chongqing Traditional Chinese Medicine Hospital**  
Department of Neurology  
Chongqing  
China  
400021

## **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-publicly 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?
<a href="#">Results article</a>		14/10/2021	28/10/2022	Yes	No
<a href="#">Protocol file</a>			08/07/2021	No	No