

# INPLASY PROTOCOL

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## Review Stage at time of this

submission: The review has not yet started.

## Conflicts of interest:

Unknown.

## A meta-analysis of acupuncture and moxibustion used to improve migraine attack symptoms and cerebral blood flow velocity

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**Review question / Objective:** Can acupuncture and moxibustion be used to improve migraine attack symptoms and cerebral blood flow velocity?

**Condition being studied:** Randomized controlled clinical trials (RCTS).

**Information sources:** The Cochrane controlled trial centre registry (CENTRAL), MEDLINE, EMBASE, AMED (by OVID) and four Chinese databases (China biomedical literature database, national knowledge infrastructure, China science and technology journal database and wanfang database).

**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 18 June 2020 and was last updated on 18 June 2020 (registration number INPLASY202060066).

## INTRODUCTION

**Review question / Objective:** Can acupuncture and moxibustion be used to improve migraine attack symptoms and cerebral blood flow velocity?

**Rationale:** Migraine is a common nervous system attack disease, but there are no satisfactory interventions. Both acupuncture and moxibustion have been shown to improve migraine symptoms, and acupuncture has been shown to improve the clinical evidence of migraine attacks.

However, whether acupuncture combined with moxibustion can improve migraine symptoms at a higher level still needs to be tested by high-level experiments.

**Condition being studied:** Randomized controlled clinical trials (RCTS).

## METHODS

**Search strategy:** We will search the Cochrane controlled trial centre registry (CENTRAL), MEDLINE, EMBASE, AMED (by OVID) and four Chinese databases (China biomedical literature database, national knowledge infrastructure, China science and technology journal database and wanwan database) from which we will be established until 1 May 2020. Limited language for Chinese, English. Refer to tests that may meet the criteria.

**Participant or population:** Migraineurs.

**Intervention:** Acupuncture, moxibustion.

**Comparator:** The control intervention was no treatment, other treatment (medication, relaxation, physical therapy, etc.) or sham surgery.

**Study designs to be included:** Searched the literature, sifted through the studies, extracted the data, and then cross-checked them when they disagreed.

**Eligibility criteria:** Migraineurs regardless of gender, age, or ethnicity.

**Information sources:** The Cochrane controlled trial centre registry (CENTRAL), MEDLINE, EMBASE, AMED (by OVID) and four Chinese databases (China biomedical literature database, national knowledge infrastructure, China science and technology journal database and wanfang database).

**Main outcome(s):** After 1 course of acupuncture and moxibustion treatment, the symptoms of migraine attack and cerebral blood flow improvement in the experimental group were observed and compared with the control group.

**Additional outcome(s):** Migraine-related symptoms (nausea, photophobia, phobias).- adverse events.

**Quality assessment / Risk of bias analysis:** The two reviewers will independently assess the risk of bias for each included RCT using the Cochrane collaboration's bias risk tool. Differences will be resolved by discussion or consensus with the third reviewer.

**Strategy of data synthesis:** All relevant data will be extracted and analyzed. Pooled homogeneous data and performed a meta-analysis. If a meta-analysis is not possible, a synthesis of descriptive data will be provided.

**Subgroup analysis:** We will study the effects of two subgroup analyses based on primary and secondary outcomes: 1. Episodic migraine vs. chronic migraine 2. Acupuncture VS control group.

**Sensibility analysis:** Based on the results of heterogeneity, we will use a random or fixed effect model to examine the trials one by one and exclude some trials that have a greater impact on the combined experiments to reduce or exclude heterogeneity.

**Language:** English.

**Country(ies) involved:** China.

**Keywords:** Electroacupuncture, migraine.

### Contributions of each author:

Author 1 - Lu Liao - Writing plan manuscript.

Author 2 - Yong Fu - The authors contribute to the development of selection criteria and the risk of bias assessment strategies.

Author 3 - Xiong Jun - The authors provide statistical expertise.

Author 4 - Haif Zhang - The author read, provided feedback and approved the final manuscript.

Author 5 - Xiaoq Li - The author reads and provides feedback.

Author 6 - Wen Yu - The author collected the data and analyzed it.