

INPLASY PROTOCOL

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None.

Acupuncture for Acute Low Back Pain: A Network Meta-Analysis

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Review question / Objective: Can acupuncture therapy contribute to pain relief and functional recovery in patients with acute low back pain?

Condition being studied: Acute lower back pain is the most common disease in the modern society. Acupuncture is a worldwide-use method complementary and alternative method, and many studies have demonstrated the effect of acupuncture on musculoskeletal pain. At present, although there are many acupuncture treatments, the effect of acupuncture is still unclear. Thus, we decide to make a network meta-analysis to solve it.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 05 December 2020 and was last updated on 05 December 2020 (registration number INPLASY2020120025).

INTRODUCTION

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there are many acupuncture treatments, the effect of acupuncture is still unclear. Thus, we decide to make a network meta-analysis to solve it.

METHODS

Participant or population: Patient with acute low back pain.

Intervention: Any acupuncture therapy will be included, for instance, acupuncture, electro-acupuncture, auricular acupuncture, acupotomy and pharmacopuncture.

Comparator: Placebo or other (active) interventions.

Study designs to be included: Randomized control trials.

Eligibility criteria: Peer-reviewed randomized control trails will be eligible for inclusion. And language will be restricted to English and Chinese.

Information sources: PubMed, Cochrane library, Web of Science, Embase, China National Knowledge Infrastructure, Wanfang Database, VIP Database, and China Biology Medicine disc.

Main outcome(s): (1) efficacy; (2) pain.

Quality assessment / Risk of bias analysis: Cochrane risk-of-bias tool (ROB 2.0) will be used to evaluate the quality.

Strategy of data synthesis: RevMan 5.3 is used to solve pairwise meta analysis, and odds ratio (OR) and 95% confidence interval (CI) were adopted. In addition, to indirectly compare the effectiveness among treatments of acupuncture, we did a random effects model NMA within a Bayesian framework, by using WinBUGS.

Subgroup analysis: Subgroup analysis and regression analysis will be conducted if reasonable such as clinic type, publication year.

Sensibility analysis: Before selecting model, sensitivity analysis will be

accomplished if sufficient studies are available and necessary.

Country(ies) involved: China.

Keywords: acupuncture, acute low back pain, efficacy, network meta-analysis

Contributions of each author:

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