

INPLASY PROTOCOL

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None declared.

Acupoint herbal patching for postherpetic neuralgia: A systematic review and meta-analysis

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Review question / Objective: The efficacy and safety of Acupoint herbal patching in patients with postherpetic neuralgia which compare with other treatment methods.

Condition being studied: Postherpetic neuralgia (PHN), a pain lasting more than 1 month after healing of herpes zoster (HZ) rash, is a common complication of HZ. The incidence of HZ is about 3 ~ 5 / 1000 person-years, and the risk of PHN varies from 5 % to 30 % in outpatients with HZ. PHN affects mood , sleep, anxiety and depression of patient, and leads to greater economic burden. Acupoint herbal patching is a method guided by the theory of traditional Chinese medicine to treat diseases by stimulating specific parts of the skin and playing the role of traditional Chinese medicine and meridians. Through literature search, it is found that there are sufficient studies on treating postherpetic neuralgia by acupoint herbal patching application in recent years. We will also provide evidence for subsequent clinical studies through this study.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 02 July 2022 and was last updated on 02 July 2022 (registration number INPLASY202270007).

INTRODUCTION

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of traditional Chinese medicine to treat diseases by stimulating specific parts of the skin and playing the role of traditional Chinese medicine and meridians. Through literature search, it is found that there are sufficient studies on treating postherpetic neuralgia by acupoint herbal patching. Acupoint application in recent years. We will also provide evidence for subsequent clinical studies through this study.

METHODS

Search strategy:

- #1 Neuralgia, Postherpetic[MeSH]
- #2 Postherpetic Neuralgia[Title/Abstract]
- #3 #1 OR #2
- #4 acupoint patching[Title/Abstract] OR acupuncture point mounting[Title/Abstract] OR acupoint sticking therapy[Title/Abstract] OR acupoint application[Title/Abstract] OR acupoint herbal patching[Title/Abstract]
- #5 Randomized Controlled Trials as Topic [MeSH]
- #6 Clinical Trials, Randomized[Title/Abstract] OR Trials, Randomized Clinical[Title/Abstract] OR Controlled Clinical Trials, Randomized[Title/Abstract] OR randomized controlled trial[Title/Abstract] OR randomized[Title/Abstract] OR randomised controlled trial[Title/Abstract] OR randomised[Title/Abstract] OR randomly[Title/Abstract] OR clinical trial[Title/Abstract] OR trial[Title/Abstract]
- #7 #5 OR #6
- #8 #3 AND #4 AND #7.

Participant or population: Patients with postherpetic neuralgia (as diagnosed using any recognised diagnostic criteria).

Intervention: The experimental group was treated with Acupoint herbal patching or Acupoint herbal patching combined with other treatment methods.

Comparator: The control group was treated with other treatment methods besides acupoint herbal patching.

Study designs to be included: XThis study will include only randomized controlled

trials combining Acupoint herbal patching for postherpetic neuralgia.

Eligibility criteria: Inclusion Criteria: The participants were diagnosed as postherpetic neuralgia. The type of studies was randomized controlled trial. For the types of intervention, the experimental group was treated with Acupoint herbal patching or Acupoint herbal patching combined with other treatment methods, while the control group was treated with other treatment methods besides acupoint herbal patching. The outcome indicators included at least effectiveness and safety evaluation. Exclusion Criteria: The type of studies was non-randomized controlled trial, such as animal trials, disease cases, reviews, expert experience elaborations, systematic evaluations. The literatures repeated published. Studies had Three or more groups.

Information sources: We will search the databases of MEDLINE, Embase, Cochrane Library, Web of Science, China National Knowledge Infrastructure, Wan-Fang Database, China Biomedical Literature Service System, and Chongqing VIP Chinese Science.

Main outcome(s): We will record the basic information included: title, year of publication, the first author, age of participants, disease course, study cases of experimental group and the control group, results risk of bias evaluation tools, outcome indicators, and other information. In addition, we will also record result of effectiveness and safety evaluation, Such as pain score, adverse reactions, etc.

Data management: Two researchers will independently search and screen the relevant literature, first removing duplicates studies by the software EndNote (version X9, Clarivate Analytics), excluding apparently irrelevant literature by reading questions and abstracts, then reading the full text, excluding ineligible literatures again according to the inclusion criteria, and recording the reasons for the deletion. Cross-check the information, and finally be

determined by the third researcher in case of differences. We will use Excel recording the basic information to find an extraction table, the basic information included: title, year of publication, the first author, study cases of treatment group and the control group, disease course, intervention measures, results risk of bias evaluation tools, outcome indicators, and other information. In case of disagreement, all researchers participated in the discussions to resolve the issue.

Quality assessment / Risk of bias analysis:

Two independent researchers will assess the included studies for risk of bias using the Cochrane risk of bias tool, the contents included blinding of outcome assessment, allocation sequence concealment, blinding of participants and personnel, incomplete outcome data, selective reporting, and other sources of bias. The seven domains was assigned a judgment relating to the risk of bias for that study classified as low, high, or unclear risk. The disagreements will be resolved by consensus or by a discussion with a third author. We will evaluate publication bias by funnel plot or Egger test.

Strategy of data synthesis: All included literatures will be calculated risk ratios (for dichotomous outcomes), mean differences or standardised mean differences (for continuous outcomes) by Review Manager 5.2. The heterogeneity test will be performed for all data using the I^2 statistic and chi-square test. It was considered low or no heterogeneity if $I^2 < 50\%$, $P > 0.1$; otherwise, when $I^2 \geq 50\%$, $P \leq 0.1$, we believe that there was obvious heterogeneity.

Subgroup analysis: When there shows significant heterogeneity, we will conduct a subgroup analysis to analyze the sources of heterogeneity according to the factors affecting the results. Subgroup analysis were performed by Review Manager 5.2.

Sensitivity analysis: Sensitivity analysis should be carried out to find the source of heterogeneity. Sensitivity analysis were performed by Stata 16.0.

Language: Language is English and Chinese.

Country(ies) involved: China/ Shandong University of Traditional Chinese Medicine.

Keywords: Systematic review; meta-analysis; Acupoint herbal patching; postherpetic neuralgia.

Contributions of each author:

Author 1 - Bingyu Pu - Author 1 drafted the manuscript.

Author 2 - Jian Wang - Author 2 provided statistical expertise and read, provided feedback and approved the final manuscript.

Author 3 - Xiaoxue Lu - Author 3 contributed to the development of the selection criteria, and the risk of bias assessment strategy.

Author 4 - Peilin Yu - Author 4 provided statistical expertise.

Author 5 - Chengjie Wang - Author 5 contributed to the development of the selection criteria, and the risk of bias assessment strategy.

Author 6 - Juan Li - Author 6 read and provided feedback.