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Acupuncture in multiple myeloma peripheral neuropathy: A systematic review

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ADMINISTRATIVE INFORMATION

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Review Stage at time of this submission - Completed but not published.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 12 July 2023 and was last updated on 12 July 2023.

INTRODUCTION

Review question / Objective This study aimed to analyse the literature to determine the efficacy and safety of acupuncture in multiple myeloma peripheral neuropathy.

Condition being studied Peripheral neuropathy is a common complication of multiple myeloma (MM), which can be induced by the MM itself or by its therapeutic agents. There is still no ideal therapy for multiple myeloma peripheral neuropathy (MMPN). Acupuncture has been suggested to have potential in MMPN according to experience in clinical practice.

METHODS

Participant or population Patients diagnosed with multiple myeloma peripheral neuropathy.

Intervention Acupuncture.

Comparator Non-acupuncture treatment.

Study designs to be included self-controlled study; randomized controlled trial; case report.

Eligibility criteria The inclusion criterion was MMPN patient received acupuncture treatment. The exclusion criteria were as follows: (1) animal studies; (2) incomplete or inaccessible data; (3) data from nonprimary sources. If more than one publication existed for the same study, the article with the most information was included.

Information sources The PubMed, Web of Science, MEDLINE, Embase, and Cochrane Library databases were searched using the following terms: (multiple myeloma OR MM) AND (peripheral neuropathy OR PN) ANDacupuncture.

Main outcome(s) visual analogue scale (VAS); neuropathic pain score (NPS); brief pain inventory-short form (BPI-SF); nerve conduction studies (NCS); functional assessment of cancer therapy/gynecologic oncology group-neurotoxicity

(FACT/GOG-Ntx) ; Functional Assessment of Cancer Therapy- General (FACT-G) ; motor nerve conduction velocity (MCV) ; sensory nerve conductionvelocity (SCV) .

Additional outcome(s) Adverse effect; Cytokine change.

Quality assessment / Risk of bias analysis The quality of the case report, single-arm clinical trial and randomized controlled study was assessed using the JBI, MINORS and Modified Jaded Scale, respectively.

Strategy of data synthesis As data were not similar enough to be combined it was not possible to group data to conduct meta-analysis, so we used descriptive approaches in analysing the pooled data.

Subgroup analysis This study is a descriptive systematic review, and there is no subgroup analysis.

Sensitivity analysis This study is a descriptive systematic review, and there is no sensitivity analysis.

Language restriction English.

Country(ies) involved China.

Keywords acupuncture; multiple myeloma peripheral neuropathy; systematic review; neurological function; pain.

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