

INPLASY PROTOCOL

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**Review Stage at time of this
submission:** Piloting of the
study selection process.

Conflicts of interest:
None declared.

Effectiveness of transcranial direct current stimulation in the modulation of central neuropathic pain: a systematic review

Wang, HN¹.

Review question / Objective: To investigate the effect of Transcranial Direct Current Stimulation (tDCS) on Central Neuropathic Pain (CNP).

Condition being studied: Central neuropathic pain.

Information sources: A comprehensive electronic database search was performed on the following databases: PubMed, MEDLINE, EMBASE, The Cochrane Library, Web of Science and SCOPUS. The search was using a combination of the following keywords: “neuropathic pain”, “central pain”, “pain”, “spinal cord injury”, “stroke”, “multiple sclerosis”, “transcranial direct current stimulation”, “tDCS”.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 23 September 2021 and was last updated on 23 September 2021 (registration number INPLASY202190075).

INTRODUCTION

Review question / Objective: To investigate the effect of Transcranial Direct Current Stimulation (tDCS) on Central Neuropathic Pain (CNP).

Condition being studied: Central neuropathic pain.

METHODS

Participant or population: central neuropathic pain patients with spinal cord injury, stroke or multiple sclerosis.

Intervention: Transcranial Direct Current Stimulation.

Comparator: Sham Transcranial Direct Current Stimulation.

Study designs to be included: Randomized controlled trial and controlled clinical trials.

Eligibility criteria: (1) Only English language studies were included (2) Human study (3) Neuropathic pain or central pain in SCI, stroke and multiple sclerosis must be clearly defined (4) Studies had to report pain intensity as an outcome at baseline and end of treatment.

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Main outcome(s): Pain intensity.

Quality assessment / Risk of bias analysis: Not reported.

Strategy of data synthesis: Not reported.

Subgroup analysis: Not reported.

Sensitivity analysis: Not reported.

Language: English.

Country(ies) involved: China.

Keywords: Transcranial direct current stimulation, central neuropathic pain, spinal cord injury, stroke, multiple sclerosis.

Contributions of each author:

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