International Platform of Registered Systematic Review and Meta-analysis Protocols

INPLASY

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Author Affiliation: Shandong Rehabilitation Research Center. The efficacy of low-frequency electrical stimulation with rehabilitation training in the treatment of neurogenic bladder caused by spinal cord injury: A meta analysis

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ADMINISTRATIVE INFORMATION

Support - 211362.

Review Stage at time of this submission - Formal screening of search results against eligibility criteria.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY2023110015

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 03 November 2023 and was last updated on 03 November 2023.

INTRODUCTION

Review question / Objective The purpose of this study is to use meta-analysis to study the effect of low frequency electrical stimulation combined with rehabilitation training on neurogenic bladder after spinal cord injury.A randomized controlled study (RCT) on the efficacy of low-frequency electrical stimulation combined with rehabilitation training in the treatment of neurogenic bladder patients with spinal cord injury.

Condition being studied neurogenic bladder caused by spinal cord injury.

METHODS

Participant or population A total of 13 papers (1008 patients) were selected, including 506 cases in the low-frequency electrical stimulation group and 502 cases in the control group.

Intervention Low frequency electrical stimulation combined with rehabilitation training for treatment.

Comparator Rehabilitation therapy alone.

Study designs to be included RCT.

Eligibility criteria Diagnostic criteria for neurogenic bladder after spinal cordinjury.

Information sources CNKI, Wanfang database, VIP, PUBMED, Cochrane Library.

Main outcome(s) Frequency of urination, residual urine volume, bladder pressure, bladder volume, bladder function score.

Quality assessment / Risk of bias analysis Cochrane Collaboration Network Tools.

Strategy of data synthesis Use RevMan5.4 software I² Test to confirm if there is statistical

significance. I 2 50%, heterogeneity is high, and a random effects model is used.

Subgroup analysis Subgroup analysis was conducted Subgroup according to intervention treatment time, treatment course was less than 1 month in the subgroup and the treatment course was more than 1 month in the subgroup.

Sensitivity analysis Use RevMan5.4 for sensitivity analysis to reflect the sensitivity of an article by deleting the changes after a certain article is deleted.

Country(ies) involved China.

Keywords Spinal cord injury; Neurogenic bladder; Low frequency electrical stimulation; Rehabilitation treatment.

Contributions of each author

Author 1 - Li ZW. Author 2 - He L.