The efficacy of low-frequency electrical stimulation with rehabilitation training in the treatment of neurogenic bladder caused by spinal cord injury: A meta analysis

Corresponding author: Li Zhiwei
lizhiwei123@163.com

Author Affiliation: Shandong Rehabilitation Research Center.

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 cord injury.

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. \( I^2 \geq 50\% \), heterogeneity is high, and a random effects model is used.

**Subgroup analysis** Subgroup analysis was conducted 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.