

INPLASY

INPLASY202510028

doi: 10.37766/inplasy2025.1.0028

Received: 8 January 2025

Published: 9 January 2025

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Meta-analysis of the effects of transcutaneous electrical acupoint stimulation on postoperative cognitive impairment function and inflammatory factors in rats

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ADMINISTRATIVE INFORMATION

Support - None.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202510028

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 9 January 2025 and was last updated on 9 January 2025.

INTRODUCTION

Review question / Objective The aim of this study was to examine the effects of transcutaneous electrical acupoint stimulation on cognitive impairment function and inflammatory factors in postoperative rats, and the chosen research method was the RCT test.

Condition being studied Test equipment, personnel, etc.

METHODS

Participant or population Healthy rats that meet the ethical review of the Animal Ethics Committee or the Animal Use Control Committee.

Intervention Transcutaneous electrical stimulation of acupoints (TEAS) .

Comparator Control rats not receiving transcutaneous electrical stimulation of acupoints.

Study designs to be included RCT.

Eligibility criteria Criteria for diagnosing postoperative cognitive impairment.

Information sources China Knowledge Network, Wipro, Wanfang Medical, Pubmed, Embase, Cochrane and other databases.

Main outcome(s) Indicators reflecting the effects of transcutaneous electrical acupoint stimulation on cognitive deficits in postoperative rats: the Morris water maze test.

Quality assessment / Risk of bias analysis Cochrane Tools.

Strategy of data synthesis RevMan 5.3 statistical software was chosen for the analysis; P50% were considered to be heterogeneous, and random effects were chosen to combine effect sizes, and fixed effects were used to combine effect sizes in the absence of heterogeneity.

Subgroup analysis No subgroup analysis.

Sensitivity analysis Sensitivity analyses were performed by RevMan software to reflect the sensitivity of the article by the change in effect size after deletion of one of the articles.

Country(ies) involved China.

Keywords Randomized controlled trial; Meta-analysis; Postoperative cognitive impairment; Prick; Acupuncture therapy; Inflammatoryfactor.

Contributions of each author

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