

INPLASY2023110014

doi: 10.37766/inplasy2023.11.0014

Received: 03 November 2023

Published: 03 November 2023

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ADMINISTRATIVE INFORMATION

Support - Self-financing.

Review Stage at time of this submission - Data extraction.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY2023110014

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 aim of this study was to investigate the effects of stem cell transplantation on the recovery of vascular dementia mice.

Condition being studied Mice, experimental equipment.

METHODS

Participant or population Mice.

Intervention Sctem cell transplantation.

Comparator Sham-operated mice.

Study designs to be included RCT and cohort studies.

Eligibility criteria In accordance with the international vascular dementia mouse model.

Information sources Pubmed, Embase, web of science, Cochrane.

Main outcome(s) Status of recovery.

Quality assessment / Risk of bias analysis Cochrane Tools.

Strategy of data synthesis Revman software was used to analyze the data. When I square was greater than 50%, heterogeneity was considered. If there was heterogeneity, the random effect model was used to combine the effect size, and if there was no heterogeneity, the fixed effect model was used to combine the effect size.

Subgroup analysis Different types of stem cell transplantation and Severity of vascular dementia.

Sensitivity analysis Revman software was used for sensitivity analysis, and the change of effect size after deleting one of the articles was used to reflect the sensitivity of the article.

Country(ies) involved China (Tianyou Hospital affiliated to Wuhan University of Science and Technology).

Keywords stem cell transplantation; vascular dementia.

Contributions of each author

Author 1 - Chuanzhi Liao - Author 1 drafted the manuscript, screened the articles, and performed the statistical pooling.

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