INPLASY PROTOCOL

To cite: Hu et al. Clinical application and efficacy of mesenchymal stem cells in the regeneration of periodontal defects: a systematic review and meta-analysis of randomized controlled trials. Inplasy protocol 202350097. doi: 10.37766/inplasy2023.5.0097

Received: 26 May 2023

Published: 26 May 2023

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Support: **None.**

Review Stage at time of this submission: **Preliminary searches.**

Conflicts of interest:
None declared.

Clinical application and efficacy of mesenchymal stem cells in the regeneration of periodontal defects: a systematic review and meta-analysis of randomized controlled trials

Hu, J[1]; Ouyang, ZY[2]; Guo, Y[3]; Feng, YZ[4].

Review question / Objective: **To systematically evaluate the use of different types of stem cells in tissue engineering for the regeneration of periodontal defects and to provide a basis for clinical applications.**
Eligibility criteria: **RCTs with tissue engineering treatment using stem cells applied to the experimental group and conventional periodontal regeneration therapy applied to the control group.**

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 26 May 2023 and was last updated on 26 May 2023 (registration number INPLASY202350097).

INTRODUCTION

Review question / Objective: **To systematically evaluate the use of different types of stem cells in tissue engineering for the regeneration of periodontal defects and to provide a basis for clinical applications.**

Condition being studied: **Periodontitis is an infectious disease characterized by chronic bacterial-induced inflammation caused by multiple factors that result in progressive and irreversible destruction of periodontal attachments.**

METHODS

Participant or population: **Periodontitis patients.**

Intervention: Stem cell therphy.

Comparator: Other Periodontal Treatments.

Study designs to be included: RCT.

Eligibility criteria: RCTs with tissue engineering treatment using stem cells applied to the experimental group and conventional periodontal regeneration therapy applied to the control group.

Information sources: Electronic databases.

Main outcome(s): PD、CAL.

Quality assessment / Risk of bias analysis: Cochrane Handbook for Systematic Reviews of Interventions.

Strategy of data synthesis: Stata.

Subgroup analysis: None.

Sensitivity analysis: None.

Country(ies) involved: China.

Keywords: Periodontal Defect Regeneration.

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