

# INPLASY PROTOCOL

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**Support:** None.

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

**Conflicts of interest:** No.

## The survival rate of transcrestal sinus floor elevation combined with short implants: A systematic review and meta-analysis of observational studies

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**Review question / Objective:** The clinical performance of short implants combined with TSFE was compared with the conventional implants combined with TSFE according to the survival rate.

**Condition being studied:** Several systematic review compared short implants without TSFE with conventional implants plus TSFE, whereas no systematic review mentioned the clinical outcome of short implants combined with TSFE.

**Information sources:** PubMed, EMBASE, the Cochrane Library.

**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 25 May 2020 and was last updated on 25 May 2020 (registration number INPLASY202050092).

### INTRODUCTION

**Review question / Objective:** The clinical performance of short implants combined with TSFE was compared with the conventional implants combined with TSFE according to the survival rate.

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## METHODS

**Participant or population:** The patients were diagnosed with a lack of available bone height in the posterior maxilla, regardless of age, sex, country.

**Intervention:** Short implants combined with transcrestal sinus floor elevation.

**Comparator:** Conventional implants combined with transcrestal sinus floor elevation.

**Study designs to be included:** Randomized controlled trial, observational studies.

**Eligibility criteria:** 1. The follow-up time should be at least 3 months. 2. detailed information of failed implants. 3. intervention: short implants combined with TSFE comparison: conventional implants combined with TSFE.

**Information sources:** PubMed, EMBASE, the Cochrane Library.

**Main outcome(s):** The survival rate of implants.

**Quality assessment / Risk of bias analysis:** The quality assessment was performed according to the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement.

**Strategy of data synthesis:** Heterogeneity: the Cochrane test and I<sup>2</sup> test. For discontinuous variables, OR and 95% CI are used for assessment.

**Subgroup analysis:** Sensitivity and subgroup analyses were performed according to the following criteria: implant length, implant protrusion length, grafting and smoking.

**Sensibility analysis:** Sensitivity and subgroup analyses were performed according to the following criteria: implant length, implant protrusion length, grafting and smoking.

**Keywords:** Short implant; Sinus floor augmentation; Dental implant; Meta-analysis.

### Contributions of each author:

Author 1 - Zhezhen Lin - Analysis, and interpretation of data for the work, drafting the paper and revising it critically.

Author 2 - Gege Wang - critical revision of article and Data collection.

Author 3 - Fang Zhang - Statistics and Critical revision of article.

Author 4 - Yong Wang - Data extraction and analysis.

Author 5 - Xue Gao - Data extraction and analysis.

Author 6 - Xi Ding - Final approval of the version to be published, concept/design.