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.

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).

Lin et al. Inplasy protocol 202050092. doi:10.37766/inplasy2020.5.0092
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 transrestal sinus floor elevation.

Comparator: Conventional implants combined with transrestal 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 I2 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.

Sensitivity 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.