

Double Double barrel free fibula flap for segmental mandibulectomy: A systematic review

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ADMINISTRATIVE INFORMATION

Support - None.

Review Stage at time of this submission - Data extraction.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY2023120025

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 06 December 2023 and was last updated on 06 December 2023.

INTRODUCTION

Review question / Objective Assessment of the double barrel modification of the free fibula flap for vertical discrepancies and implant rehabilitation in patients with segmental mandibulectomy.

Condition being studied Double barrel fibula flap viability for reconstruction of dentate mandibles for vertical discrepancy as well as implants survival.

METHODS

Search strategy The databases used for this systematic review will be PubMed (MEDLINE), Scopus, EMBASE and Cochrane Library. The search will be limited to articles in English, Spanish and French. Any new publications will be inquired before data extraction.

Participant or population Patients with malignant disease, malformations or trauma who have undergone segmental mandibulectomy.

Intervention Double barrel free fibula flap for segmental mandibulectomy and implant rehabilitation.

Comparator Flap and implants survival compared to single barrel, iliac crest or bone grafts.

Study designs to be included Controlled trials, case reports, case series, retrospective reviews, and prospective studies.

Eligibility criteria Any article that can be retrieved, in english, french or Spanish, where patients have undergone double barrel fibula reconstruction for segmental mandibulectomy and have received dental implants.

Information sources The databases used for this systematic review will be PubMed (MEDLINE), Scopus, EMBASE and Cochrane Library.

Main outcome(s) Flap survival in patients who have undergone segmental mandibulectomy and

double barrel fibula flap reconstructions, as well as dental implants survival in these patients.

Quality assessment / Risk of bias analysis All included studies will be subject to bias screening using the Cochrane risk of bias tool and MINORS score.

Strategy of data synthesis The search work flow will be summarised in a chart. The results will be presented in tables. A narrative synthesis and analysis will be done.

Subgroup analysis Narrative analysis and synthesis will be done for types of mandibulectomy, implants, adjuvant therapy and patient satisfaction.

Sensitivity analysis A narrative analysis will be performed for this review.

Country(ies) involved Spain.

Keywords Double barrel fibula flap; segmental mandibulectomy; implants.

Contributions of each author

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